



Wissenschaftskolleg zu Berlin

INSTITUTE FOR ADVANCED STUDY

ARBEITSVORHABEN DER FELLOWS
FELLOWS' PROJECTS 2015/2016

Herausgeber:
Wissenschaftskolleg zu Berlin
Wallotstraße 19
14193 Berlin
Tel.: +49 30 89 00 1-0
Fax: +49 30 89 00 1-300
wiko@wiko-berlin.de
wiko-berlin.de

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VORWORT

In dieser Broschüre werden die Fellows des Wissenschaftskollegs im akademischen Jahr 2015/16 vorgestellt. Im Zentrum steht die Beschreibung der Arbeitsvorhaben, denen sie sich während ihres Aufenthaltes am Wissenschaftskolleg widmen wollen. Dazu kommen bibliografische Empfehlungen mit den Titeln einiger Aufsätze oder Bücher, die sie Interessenten zur Lektüre empfehlen, sowie kurze biografische Angaben.

Die meisten Fellows kommen für ein volles akademisches Jahr und verfolgen ein individuelles Forschungsvorhaben. In jedem Jahr gibt es aber auch eine Reihe von Wissenschaftlern, die in Schwerpunktgruppen eingebunden sind. Die Zugehörigkeit zu einer Schwerpunktgruppe sowie gegebenenfalls eine kürzere Aufenthaltsdauer sind jeweils vermerkt.

In der Zeit zwischen dem Redaktionsschluss dieser Broschüre und dem Beginn des akademischen Jahres am 16. September 2015 können sich noch leichte Änderungen ergeben. Aktualisierte Informationen zu den Fellows und ihren Arbeitsvorhaben sowie zu Veranstaltungen mit Fellows und zum Wissenschaftskolleg insgesamt stehen auf der Internetseite des Wissenschaftskollegs – wiko-berlin.de – zur Verfügung.

Berlin, im Juli 2015

Wenn nicht anders angegeben, erstrecken sich die Fellowships vom 16. September 2015 bis zum 15. Juli 2016.

PREFACE

This brochure presents the Fellows of the academic year 2015/16. Each Fellow provides a short description of the work he or she plans to pursue during the stay at the Wissenschaftskolleg. Also listed are brief biographical notes as well as recommended reading.

The majority of the Fellows come for an entire academic year. The Wissenschaftskolleg invites most of its Fellows on the basis of their individual research plans. Some Fellows, however, are integrated in Focus Groups. Membership in a Focus Group and a shorter planned stay are noted for each Fellow, where applicable.

Between the submission deadline to this brochure and the beginning of the academic year on September 16, 2015, some minor changes may arise. Up-to-date information on the Fellows, their work plans, and the Wissenschaftskolleg in general is available on the Wissenschaftskolleg's website wiko-berlin.de.

Berlin, July 2015

If not otherwise indicated, the Fellowships extend from September 16, 2015 to July 15, 2016.

LAITH AL-SHAWAF

from February to July 2016

Fellow of the College for Life Sciences (see p. 137)

Ph.D., Psychology

Bilkent University (Turkey)

Born in 1988 in Abu Dhabi

Studied Psychology, Philosophy, and Cognitive Science at the American

University of Beirut and at the University of Texas at Austin

1. DISGUST, IMMUNOLOGY, AND HUMAN MATING (EMPIRICAL RESEARCH PROJECT)

2. UNPACKING THE PHILOSOPHICAL IMPLICATIONS OF AN EVOLUTIONARY PERSPECTIVE ON THE HUMAN MIND (BOOK PROJECT)

Ad 1. This is an empirical research project investigating the relationship between immune function and the emotion of disgust, as well as how these physiological and psychological processes affect aspects of human life such as sexual behavior, food preferences, and the psychology of human mating.

Ad 2. This is a book project exploring the consequences of the fact that the human brain is a product of evolution by natural selection. This basic premise is widely accepted, but its (many) philosophical implications are rarely unpacked. In this book, which is still very much in its incipient stages, my goal is to unpack the implications of this fact for areas of philosophy such as morality, epistemology, philosophy of mind, the “self”, and the question of free will. Many thinkers have not paid sufficient attention to the fact that the human brain evolved by natural selection, and others have proceeded uncautiously, drawing unwarranted conclusions from this premise. My goal will be to avoid these

unwarranted conclusions while simultaneously shedding light on a number of big questions in different areas of philosophy and psychology.

Recommended Reading

Al-Shawaf, L., D. M. G. Lewis, and D. M. Buss (2015). "Disgust and mating strategy." *Evolution & Human Behavior* 36: 199–205.

Al-Shawaf, L., D. Conroy-Beam, K. Asao, and D. M. Buss (2015). "Human emotions: An evolutionary psychological perspective." *Emotion Review*. doi: 10.1177/1754073914565518.

Lewis, D. M. G., E. Russell, L. Al-Shawaf, and D. M. Buss (in press). "Lumbar curvature: A previously undiscovered standard of attractiveness." *Evolution & Human Behavior*. doi:10.1016/j.evolhumbehav.2015.01.007.

DORIT BAR-ON
Ph.D., Professor of Philosophy
University of Connecticut

Born in Tel Aviv
Studied Philosophy and Linguistics at Tel Aviv University and at the University
of California, Los Angeles

EXPRESSION, ACTION, AND MEANING

Focus Group *Biological, Cultural and Social Origins of Language* (see p. 127)

The aim of *Expression, Action, and Meaning* (tentative title) is to provide a novel perspective on the philosophical project of “naturalizing” meaning. The early chapters of the book lay out a view I have defended in recent years, according to which communication through expressive behavior – as manifested by both humans and nonhuman animals – is the province of minded, social, and active creatures. Proper understanding of expressive behavior and the kind of communication it affords can help us ground one variety of so-called speaker meaning that is at once rich enough and modest enough to help us see how to bridge the gap Paul Grice identifies between “natural” and “non-natural” linguistic meaning (cf. Grice 1957, 1985). Relatedly, expressive communication among nonhuman animals, I have argued, represents a significant intermediary between communication that exploits natural signs, on the one hand, and communication through symbolic linguistic strings, on the other. Thus, it is in the domain of expressive communication that we should search for the most immediate natural precursors in the evolution of meaningful linguistic communication.

The task for later chapters is to tease out some of the consequences of my conception of expressive behavior and communication for several standing puzzles in the philosophy of language and mind. Specifically:

- Semantic indeterminacy: How can words and sentences have determinate meanings, given that linguistic behavior is open to multiple and incompatible interpretations? (Cf. Quine 1960);
- Rule following: How can we take a speaker to follow one rule in her use of words rather than any number of possible rules that are compatible with her past use, dispositions, intentions, etc.? (Cf. Wittgenstein 1955 and Kripke 1972);
- Knowledge of meaning: How can speakers' knowledge of what their words mean be at once propositional and practical? (Cf. Dummett 1996).

In earlier work, I argued that the puzzles arise as a result of an erroneous, though widely accepted, theory of linguistic competence and understanding, according to which in spontaneous linguistic communication, speakers intentionally provide evidence about what they mean to their hearers, and hearers need to select one of many alternative hypotheses concerning the correct interpretation of speech on the basis of available behavioral evidence. But reflection on expressive behavior suggests an alternative conception, according to which linguistic competence and understanding are to be modeled on the production and uptake of acquired expressive behavior.

Looking at the above long-standing puzzles through the lens of the expressive communication approach – I aim to show – promises to transform intractable skeptical conundrums into theoretical problems that can draw on rich conceptual and empirical resources for their solutions.

Recommended Reading

Bar-On, Dorit. *Speaking My Mind: Expression and Self-Knowledge*. Oxford: Oxford University Press, 2004.

—. “Origins of Meaning: Must We ‘Go Gricean’?” *Mind & Language* 28, 3 (2013): 342–375.

—. “Expressive Communication and Continuity Skepticism.” *The Journal of Philosophy* 110, 6 (2013): 293–330.

TATIANA BORISOVA

Dr., Associate Professor of Legal History

National Research University Higher School of Economics
(HSE – St. Petersburg)

Born in 1978 in Leningrad

Studied History at the European University at St. Petersburg and at
St. Petersburg State University

GUNS AND REGULATIONS: THE SOCIAL HISTORY OF RUSSIAN LAW, 1800–1937

Focus Group *Russia: The Rule of Law in Question* (see p. 130)

The gun problem is very much in focus today. The most recent legislative initiative in the Russian Parliament to legalize the carrying of firearms was in October 2014 and enjoyed considerable support from a number of very active regional and all-Russian NGOs promoting the right of the Russian people to bear firearms for self-defense. The claims of Russian gun enthusiasts are often based on “historical arguments”. However, the real history of the private possession of firearms remains unwritten.

I will consider the private possession of firearms in Russia in 1800–2000 from three main perspectives: formal rules, procedure, and ideology. I will collect and analyze regulative materials on bans on handguns, permissions to own firearms granted to particular social groups, hunting legislation, sentence exacerbation for the use of weapons, and legislation on self-defence. My research questions will be:

1. What was the theoretical basis for adopting a rather permissive, rather than restrictive approach to the regulation of the private possession of firearms?
2. What legal, political, and social concepts shaped private firearms regulations and conditioned their enforcement?

Recommended Reading

Borisova, Tatiana. "Russian National Legal Tradition: Svod versus Ulozhenie in Nineteenth-Century Russia." *Review of Central and East European Law* 33, 3 (2008): 295–341.

—. "The Legitimacy of the Bolshevik Order, 1917–1918: Language Usage in Revolutionary Russian Law." *Review of Central and East European Law* 37, 4 (2012): 395–419.

Borisova, Tatiana and Jukka Siro. "Law between Revolution and Tradition: Russian and Finnish Revolutionary Legal Acts, 1917–1918." *Comparative Legal History* 3, 1 (2014): 84–113.

VICTORIA A. BRAITHWAITE
Ph.D., Professor of Fisheries and Biology
The Pennsylvania State University

Born in 1967 in Bradford, United Kingdom
Studied Zoology and Animal Behaviour at the University of Oxford

PAIN – WHEN DOES IT HURT?

Focus Group *Pain* (see p. 132)

While pain is no longer considered to be an exclusively human experience, we struggle to agree on which animals suffer from it. Yet if we are to provide appropriate care and welfare for the animals we interact with, we need to have a workable definition of animal pain and a way of determining which animals experience the hurt generated by pain processes. To date, studies in animals have relied on the definitions created to describe human pain, but with our uniquely complex nervous system this presents problems when we try to translate pain processes to animals. Pain is recognized as having two distinct phases; first an unconscious set of reactions, mostly reflex responses, followed by a conscious awareness of the emotions and discomfort. While it is clear that that first phase is observed throughout much of the animal kingdom, the second stage is limited to animals with emotional states. Recent advances in our understanding of the neural processes that underlie emotions as well as empirical evidence of empathy and changes in cognition associated with pain suggest that we now need to review and revise the criteria used to define animal pain. With this more refined approach, we can then start to explore which animals are aware of a negative emotional state induced by pain. My overarching goal is to devise a framework that will allow us to determine which animals experience the negative emotional effects associated with pain.

Recommended Reading

Braithwaite, Victoria A. (2010). *Do Fish Feel Pain?* Oxford: Oxford University Press.

Droege, Paula and V. A. Braithwaite (2014). “A framework for investigating animal consciousness.” In *Ethics in Behavioural Neuroscience*, edited by Frauke Ohl, Grace Lee, and Judy Illes, 79–98. Berlin und Heidelberg: Springer, 2015 (Current Topics in Behavioral Neurosciences).

Patton, B. W. and V. A. Braithwaite (2015). “Swimming against the current: ecological and historical perspectives on fish cognition.” *WIREs Cognitive Science* 6: 159–176.

JANE BURBANK
Ph.D., Professor of History
New York University

Born in 1946, Hartford, Conn.
Studied Russian Literature at Reed College, Portland, and Russian History and
Soviet Studies at Harvard University

THE LEGAL LIFE OF THE RUSSIAN STATE, OR
SOVEREIGNTY SEEN FROM THE MIDDLE; KAZAN
JUDICIAL DISTRICT, 1890–1917

Focus Group *Russia: The Rule of Law in Question* (see p. 130)

My project is a monograph about the operations and significance of the legal system in late imperial Russia. I focus on the “middle” level of the law – on appeals courts, district supervisors, police and administrative institutions – in Kazan province, a multi-ethnic, multi-confessional region on the Volga River. After the revolution of 1905 and the consequent restructuring of imperial sovereignty, middle-level authorities confronted disruptions initiated by both state reformers and radical opponents of the government. Litigation and legal supervision were mechanisms whereby basic elements of civic life – family and property – were to be managed and potentially reconfigured. Provincial officials charged with responding to civil disputes, as well as to crime and subversion, were critical intermediaries of imperial power at this time of economic expansion, political pressure, and extensive legal activism.

As middle-level authorities did their work, they articulated among themselves and to users of the legal system notions of sovereignty supposedly shared by imperial subjects. Their actions open to scrutiny the ways that people interacted with imperial law and what they expected of it.

Communications between governors’ secretaries, assistant prosecutors, gendarmes, policemen, and regional supervisors allow me to trace webs of connec-

tion among people from the bottom, top, and middle of the polity. My study challenges the conventional view of Russia as a lawless state, but also exposes particular qualities of Russian law in the last decades of Romanov rule. Having written on intellectuals and peasants in the past, I now focus on bureaucrats. Their practices, judgments, and expectations offer insights into strengths and weaknesses of the empire's way of rule.

Recommended Reading

Burbank, Jane (with Frederick Cooper). *Empires in World History: Power and the Politics of Difference*. Princeton: Princeton University Press, 2010; paperback 2011.

—. *Russian Peasants Go to Court: Legal Culture in the Countryside, 1905–1917*. Bloomington: Indiana University Press, 2004.

—. *Intelligentsia and Revolution: Russian Views of Bolshevism, 1917–1922*. New York: Oxford University Press, 1986; paperback 1989.

ANNA MARIA BUSSE BERGER
Ph.D., Distinguished Professor of Music
University of California, Davis

Born in 1949 in Hamburg
Studied Musicology at the Musikhochschule Detmold and at Boston University,
and German Studies at the University of Trondheim

IN SEARCH OF MEDIEVAL MUSIC IN AFRICA

Throughout my scholarly career, I have worked on various aspects of the interface between orality and literacy in early European music. While in my previous books I have concentrated on notation, improvisation, and memory in the Middle Ages and Renaissance, I now want to enlarge the scope and see what happens when literate European missionaries are introducing East African oral societies to writing and Western music.

I have chosen to study four different missionaries from three denominations: two Moravian missionaries, one Lutheran from the Leipziger Mission, and one Catholic Benedictine from St. Ottilien. They all come from communities with vibrant music traditions and have left extensive publications and letters that describe their experiences.

Remarkably, most of these missionaries were exposed to two significant movements in early twentieth-century culture that shared a passionate interest in medieval music: the newly established discipline of comparative musicology and the *Jugendmusik-* and *Singbewegung*. Erich Moritz von Hornbostel and Carl Stumpf, founders of comparative musicology, established the Phonogramm-Archiv in Berlin in order to collect, analyze, compare, and classify recordings of orally transmitted music from all over the world. They were convinced that music in “primitive” cultures was similar to medieval music, and often drew far-reaching conclusions about medieval music based on what they observed in other cultures. All four of my missionaries made recordings of African music now preserved in the Berlin Phonogramm-Archiv.

Similarly, most of the missionaries were in some way involved in the German *Jugendmusik-* and *Singbewegung*, movements that tried to revive early music and folk music by editing and performing Gregorian Chant, Lutheran chorales, and Renaissance polyphony.

Now, my question is: how did comparative musicology and the *Jugendmusikbewegung* influence the music in the mission stations? Did missionaries translate and publish the chorales they used in their missions? Did they introduce musical notation? Did the missionaries ask members of the communities they visited to create new hymn verses and melodies they would understand better and find more attractive? Was there any room for improvisation? If they were open to local culture, what room was there for its music? For example, were they able to teach the new congregations how to sing polyphony? And if so, how did this polyphonic practice relate to local polyphony? Did they do ethnographic work and try to relate what they found to medieval and Renaissance music?

Recommended Reading

Busse Berger, Anna Maria. *Medieval Music and the Art of Memory*. Berkeley, Calif.: University of California Press, 2005.

—. *Mensuration and Proportion Signs: Origins and Evolution*. Oxford: Clarendon Press, 1993.

—. “Spreading the Gospel of *Singbewegung*: An Ethnomusicologist Missionary in Tanganyika of the 1930s.” *Journal of the American Musicological Society* 66, 2 (2013): 475–522.

TIM CARO

Ph.D., Professor of Wildlife Biology
University of California at Davis

Born in 1951 in London

Studied Behavioural Ecology at Cambridge University, St. Andrews University,
University of Michigan, and University of California at Davis

THE COLOURS OF ANIMALS

Focus Group *Colouration in Animals* (see p. 134)

At the turn of the 19th century, Alfred Russel Wallace, the undoubted father of the field, constructed a scheme for thinking about colouration. He viewed colouration as being intimately concerned with protecting prey from predators (two of his categories); the first of these we now call background matching. His second category fulfilled the same function but in a different way: colouration warns predators not to attack (aposematism). His third category was sexual colours, which, contrary to Darwin who focused on ornamentation in males, he saw as being linked to protection in females. His fourth was “typical” colours – a sort of ragbag that includes signalling between conspecifics and lures. These ideas about colouration were developed by Edward Poulton in regards to aposematism and by Abbott Thayer in relation to countershading and disruptive colouration (breaking up the animal’s outline), but then the field went quiet. In 1940, Hugh B. Cott published his benchmark volume called *Adaptive Colouration in Animals*, in which he painstakingly documented the different ways that animals conceal themselves, including disruptive colouration and masquerade. But again there was a 30-year hiatus until the late 1970s, when behavioural ecologists interested in mating systems started to think about one aspect of colouration, bright ornamentation in (principally) male birds, in the context of sexually selected traits. Finally, in the early 2000s, a different group of scientists began to systematically test century-old hypotheses about background

matching, disruptive colouration, countershading and warning colouration. At Wiko we are convening a Focus Group that will attempt to integrate modelling exercises, observational work, experimental studies and comparative analyses in order to consolidate understanding and formulate new exciting directions in explaining colouration in nature. We will address questions like: why do chameleons change colour? Why do butterflies have wing spots? Why are parrots so brilliantly coloured? And why are zebras black and white? We hope to engage both humanities colleagues and the public in the excitement of understanding the beauty of nature.

Recommended Reading

Caro, T., A. Dobson, A. J. Marshall, and C. A. Peres (2014). “Compromise solutions between conservation and road building in the tropics.” *Current Biology* 24: R722–R724.

Caro, T. and P. W. Sherman (2011). “Endangered species and a threatened discipline: behavioural ecology.” *Trends in Ecology and Evolution* 26: 111–118.

Caro, T. (2005). “The adaptive significance of coloration in mammals.” *BioScience* 55: 125–136.

MIRCEA CĂRTĂRESCU
Dr., Writer, Professor of Literature
University of Bucharest

Born in 1956 in Bucharest
Studied Literature at the University of Bucharest

THEODOROS (A NOVEL)

My project is to write “Theodoros”: a historical novel describing the fantastic life and destiny of a Greek-Romanian character born in 1818 in Wallachia, the southern part of what is now Romania. Teodor is the lowborn child of two servants at the court of a great boyard. At birth, it is prophesied that he will become an emperor. This prophecy becomes his greatest obsession. The first part of the novel deals with his childhood and adolescence in Wallachia.

At the age of 17, he disappears from Wallachia for good, and the second part of the novel begins. At greater and greater intervals, his mother receives his letters from disparate locations in the Levant and Orient – the Greek Archipelago, Palestine, Petra, Baalbek, Alexandria – describing his adventurous life and the cruel, audacious actions he takes in search of power and wealth. He signs these letters with the Greek variant of his name, Theodoros.

The prophecy is indeed fulfilled in the third part of the book. After twenty years of wandering over the sea and through picturesque lands, he arrives in Abyssinia, takes part in the “war of the princes”, exchanges his name and personality with the most important Abyssinian warlord, and finally takes power, becoming the famous emperor Tewodros II of Abyssinia. He dies fighting Queen Victoria’s soldiers in 1868.

This is the novel’s “realistic” framework, but the meaning of this novel lies in its vision. I would like to create a whole miraculous world involving the story of King Solomon, the Queen of Sheba, and their legendary son Menelik, who, according to the sacred book *Kebra Nagast*, stole the Ark of the Covenant from Jerusalem and brought it to Abyssinia. As I envision it, in the end the whole

novel will resemble Albrecht Altdorfer's painting "Alexander in the Battle of Issus": a large, all-encompassing, and fascinating panorama of a magnificent time.

Recommended Reading

Cărtărescu, Mircea. *Orbitor. Corpul* [*The Body* 2002; *Der Körper* 2011]. Bucharest: Ed. Humanitas, 2002.

—. *Orbitor. Aripa dreaptă* [*The Left Wing* 2013; *Die Flügel* 2014]. Bucharest: Ed. Humanitas, 2006.

—. *Orbitor. Aripa stângă* [*The Right Wing* 2007; *Die Wissenden* 2007]. Bucharest: Ed. Humanitas, 2007.

BARBARA A. CASPERS

from October 2015 to March 2016

Fellow of the College for Life Sciences (see p. 137)

Dr. rer. nat., Biology

University of Bielefeld

Born in 1975 in Wiedenbrück (Germany)

Studied Biology at the Johannes-Gutenberg-Universität Mainz, the University of Bielefeld, and the Humboldt-Universität zu Berlin

PARENTAL CARE FOR UNRELATED OFFSPRING:
TAXONOMIC-SPECIFIC PERSPECTIVES OF A COMMON
PHENOMENON

Since my Ph.D., I have been fascinated by the use of odours for social communication, including kin recognition. Kin recognition is often based on olfactory cues and it has been shown that olfactory kin cues are present early in life, i.e. closely related individuals smell more similar than unrelated individuals. The potential of an olfactory kin cue has been completely ignored in birds, as most birds have been thought to lack the sense of smell. Therefore it is widely accepted that, specifically in songbirds, parents are unable to distinguish between related and unrelated offspring early in life. However, evidence is accumulating that birds are able to recognise kin based on olfactory cues. If birds are able to recognise their kin, why are there so many evidences of misdirected parental care, i.e. parental care for unrelated offspring?

Parental care for unrelated offspring is widespread across the animal kingdom, with birds being no exception. In contrast, the vast majority of social monogamous bird species has been shown to be genetically polyandrous, i.e. at least one parent cares also for unrelated offspring. From an evolutionary point of view, investment in unrelated offspring is maladaptive. It comes with costs in terms of energy and resources that cannot be invested in related offspring at the same time.

But why do individuals care for unrelated offspring?

If parents are able to recognize their own offspring, it is assumed that parental care for unrelated offspring is intentional, with potential fitness-relevant benefits. In group-living animals, for example, predation risk for one's own offspring decreases with an increasing group size. This dilution effect may induce parents to provide additional care to unrelated offspring in order to increase their own offspring's chances for survival. Interpretations of parental care for unrelated offspring differ with respect to the presence/absence of a kin cue. Given the finding that parents as well as offspring of songbirds may also be able to distinguish between kin and non-kin at a very early life stage, we may have to start thinking about the potential functions of parental care for unrelated offspring, as has been done in mammals or fishes.

During my stay at the Wissenschaftskolleg I aim to address the question how the potential existence of a kin cue in birds may influence interpretations of the phenomenon.

Recommended Reading

Caspers, B. A., E. T. Krause, R. Hendrix, M. Kopp, O. Rupp, K. Rosentreter, and S. Steinfartz (2014). "The more the better – polyandry and genetic similarity are positively linked to reproductive success in a natural population of terrestrial salamanders (*Salamandra salamandra*)". *Molecular Ecology* 23: 239–250.

Caspers B. A., J. I. Hoffman, P. Kohlmeier, O. Krüger, E. T. Krause (2013). "Olfactory imprinting as a mechanism for nest odour recognition in zebra finches." *Animal Behaviour* 86: 85–90.

Krause, E. T., O. Krüger, P. Kohlmeier, and B. A. Caspers (2012). "Olfactory kin recognition in a songbird." *Biology Letters* 8: 327–329.

DANIEL CEFAÏ

Dr., Directeur d'études

École des hautes études en sciences sociales, Paris

Born in 1961 in Bordeaux

Studied Anthropology and Phenomenology at the EHESS, Paris

THE PUBLIC: ECOLOGY, PRAGMATISM AND POLITICS
AND SOCIOLOGICAL RECORDING IN CHICAGO,
1945–1960

During my stay at the Wiko, I intend to move forward in writing two books, both linked with the history of social science at the University of Chicago. On the one hand, we are working with Howard Becker on *L'Enquête sociologique à Chicago 1945–1960*, a history of the Department of Sociology at the University of Chicago between World War II and the 1960s. The objective is to describe the shifts in the practices of inquiry among young researchers and Ph.D. students at this critical moment of the invention of participant observation and fieldwork in sociology. Howard Becker was the contemporary of the generation of Erving Goffman, Joseph Gusfield, Eliot Freidson, and many others who invented many of the options in what would be called later “qualitative sociology”. We combine Becker’s personal records with data from the Special Collections and University Archives, Chicago, the 200 dissertations defended during the 1945–1960 period, the transcripts of seminars on field research that took place there, and the Department professors’ correspondence and personal documents in the writing of a new narrative on what is commonly called the Second Chicago School of Sociology. Doing a prosopographic and a network analysis of this cohort, we hope to renew hypotheses on the ecology of research.

In parallel, I will keep on working on a second book: *The Public: Pragmatism, Ecology, and Politics*, in the area of history of sociology and political science in the 1920s–30s at the University of Chicago – the so-called Chicago Schools of Sociology and Political Science. The twenties and thirties were a crucial mo-

ment for the professionalization and institutionalization of these disciplines. My project is to investigate their political dimension, focusing on the different uses of the concept of “public”: public/crowd, public interest, public polls, public problems, public opinion, public administration etc. At the same time, I will try to make explicit the connections of these new sciences – with a special focus on Robert E. Park and Charles Merriam – with pragmatist philosophy, mainly William James, John Dewey, and George Herbert Mead. My question is: how did the birth of urban ecology, electoral sociology, and ethnic studies involve specific conceptions of the public sphere? Through this movement back to the 1920s, I hope to highlight a conception of the “public” different from those of Arendt, Habermas, and their followers.

Recommended Reading

Cefaï, Daniel and Eduardo Gardella. *L'Urgence sociale en action: Ethnographie du Samusocial de Paris*. Paris: La Découverte, 2011.

—. “Social Worlds: The Legacy of Mead’s Social Ecology in Chicago Sociology.” In *The Timeliness of George Herbert Mead*, edited by Daniel Huebner and Hans Joas. Chicago: The University of Chicago Press, 2015.

—. “Outreach Work in Paris: A Moral Ethnography of Social Work and Nursing with Homeless People.” *Human Studies* 38, 1 (2015).

INNES CAMERON CUTHILL

from November 2015 to February 2016

D.Phil. (Oxon.), Professor of Behavioural Ecology

University of Bristol

Born in 1960 in Glasgow

Studied Zoology at Cambridge University and Oxford University

DEFENSIVE IRIDESCENCE

Focus Group *Colouration in Animals* (see p. 134)

“Brilliantly changeable or metallic colors are among the strongest factors in animals’ concealment” (Thayer 1909).

Read in the light of 100 years of research on animal and military defensive colouration, this statement by the father of camouflage theory now seems absurd. Camouflage works by blending with the background, disruption of form or mimicry of irrelevant background objects. Iridescence on the other hand is a form of structural colour – an optical phenomenon that usually produces vivid metallic colours, as seen in peacock feathers and morpho butterflies. While there has been some discussion of iridescence as camouflage, this has primarily been in terms of the mechanism of background matching, which ignores the primary feature of iridescence: it changes its hue at different viewing angles. The aim of my project, in line with a new major UK Research Council grant, is to determine if this changeability can function as camouflage, by disrupting object identification and/or interfering with targeting and attack.

Why bother?

Camouflage is interesting...

- to biologists: The major selective force shaping the evolution of camouflage is perception by other individuals, of the same or different species. However, our understanding of which perceptual mechanisms animal camouflage “exploits” is limited.

- to psychologists: How you “break” camouflage revolves around two major issues in visual perception, target-background segmentation and feature “binding”.
- to computer scientists: Researchers in artificial vision must tackle the same issues: feature detection, feature binding, target-background segmentation, and object recognition.

Apart from addressing fundamental questions about biological structure and function, an understanding of the ways natural iridescence is deployed to attract, deceive and distract will help inform the strategic use of such materials in safety, commercial and security applications.

Recommended Reading

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LORRAINE DASTON

Permanent Fellow of the Wissenschaftskolleg

Ph.D., Director, Max Planck Institute for the History of Science, Berlin

Professor, Committee on Social Thought, University of Chicago

Born in 1951 in Michigan

Studied History, Philosophy of Science, and History of Science

at Cambridge and at Harvard

RULES: THE PREHISTORY OF AN INDISPENSABLE AND IMPOSSIBLE GENRE

Rules – in the form of everything from traffic regulations and government directives to etiquette manuals and parliamentary procedures – structure almost every human interaction. Increasing use of computers has intensified a trend that began in the eighteenth century of ever more, ever more stringent rules for ever more domains of public and private life, as we intuitively adapt our behavior and perhaps also our thinking to the algorithms of search engines, stock market trading, social media, and myriad other online activities. We moderns cannot live without rules. But we also cannot live with them, at least not comfortably. We chafe at their complexity, their inflexibility, their inefficiency, their sheer prolixity. On a more abstract level, many of the fault lines that run through the landscape of modern thought oppose rules to some other elusive desideratum, such as interpretation, judgment, creativity, discretion, or simple common sense.

These are characteristically modern oppositions. Premodern rules, for the over two millennia spanning Greco-Roman Antiquity through the European Enlightenment, built experience and discretion into rules; words for “rule” and “pattern” (or “paradigm”) were used as synonyms in several major European languages. Drawing upon diverse genres – astronomical tables, traffic regulations, law codes, game manuals, handbooks of parliamentary procedures, cookbooks – I would like to reconstruct the history of the premodern rule as both a

concept and a practice in order to better understand our own modern ambivalence about rules.

Recommended Reading

Lorraine Daston. "History of Science without Structure." In *Kuhn's Structure of Scientific Revolutions at Fifty*, edited by Robert J. Richards and Lorraine Daston. Chicago: University of Chicago Press, 2015.

Erikson, Paul, Judy L. Klein, Lorraine Daston, Rebecca Lemov, Thomas Sturm, and Michael D. Gordin. *How Reason Almost Lost Its Mind: The Strange Career of Cold War Rationality*. Chicago: University of Chicago Press, 2014.

Lorraine Daston. "Objectivity and Impartiality: Epistemic Virtues in the Humanities." In *The Making of the Humanities*, edited by Rens Bod, Jaap Maat, and Thijs Weststeijn, 27–42. Vol. III: *The Modern Humanities*. Amsterdam: Amsterdam University Press, 2014.

CLÉMENTINE DELISS

from September 2015 to March 2016

Ph.D., Independent Curator and Anthropologist

Contemporary Art and Anthropology

Born in 1960 in London

Studied Social Anthropology at the University of Vienna and at the School of

Oriental and African Studies (University of London)

PERFORMATIVE GHOSTS:
TRANSFORMING THE ETHNOGRAPHIC MUSEUM INTO
A FUTURE MUSEUM-UNIVERSITY

Ich will ja die Museen zu Universitäten machen, die dann praktisch ein Department für Objekte haben. (Joseph Beuys in *Das Museum. Ein Gespräch über seine Aufgaben, Möglichkeiten, Dimensionen*, ed. Joseph Beuys and Frans Haks. 1993.)

Based on five years of experience directing and transforming the Weltkulturen Museum in Frankfurt, I would like to prepare a publication that draws together possible models for a “post-ethnographic” museum. Here I argue for a new form of “museum-university” marked by interdisciplinary inquiries led by artists, writers, lawyers, and anthropologists and based on experimental assemblages of historical collections. In Germany today there exist approximately fifteen ethnographic museums that control – administratively, legally, and pedagogically – more than five million objects from Africa, Asia, Oceania, and the Americas. Beyond contested proprietary rights, their sheer scale impedes a mass restitution from taking place, be this back to their original source or, more controversially, to new, twenty-first century diasporic homelands. Indeed, where is “home” for these material migrants from the nineteenth century or earlier? How is indigeneity verified today if more and more individuals chart new geopolitical routes forging synthetic alliances that creolize colonial, ethnic, and gender identifications from the past? How does an ethnographic collection with

its apparent anachronism become incisive and operational in the twenty-first century? How can new models of appropriation be forged? Why is the circulation of these objects within European institutions so restrictive today? What constitutes a *research collection* today? With interviews and analyses, the publication aims to push the parameters of museum anthropology beyond the superficial revisionism of world cultures toward interdisciplinary innovation, heterodox knowledge sharing, and experimental production methods.

Recommended Reading

Deliss, Clémentine, ed. *El Hadji Sy: Painting, Performance, Politics*. Zürich: Diaphanes, 2015.

—. *Foreign Exchange (or the stories you wouldn't tell a stranger)*. Zürich: Diaphanes, 2014.

—. *Object Atlas: Fieldwork in the Museum*. Bielefeld: Kerber, 2012.

HOLGER DIESSEL

Ph.D., Professor of English Linguistics
Friedrich-Schiller-Universität Jena

Born in 1964 in Hildesheim

Studied German Language and Literature at the University of Hamburg and
Linguistics at the University of Buffalo

USAGE-BASED GRAMMAR

Focus Group *Biological, Cultural and Social Origins of Language* (see p. 127)

Since the beginning of the 20th century, it has been a standard assumption of linguistic research that the study of the linguistic system needs to be separated from the study of language use. In the structuralist and generative paradigm, language, notably grammar, is seen as a self-contained system that includes discrete categories and combinatorial rules that are independent of usage. However, this view of grammar has been called into question by a new line of research that has become known as the usage-based approach. In this new approach, grammar is seen as a dynamic system consisting of emergent categories and fluid constraints that are in principle always changing under the pressure of general cognitive mechanisms involved in language use (i.e., communication and the processing of linguistic information). Challenging the structuralist dictum that the (synchronic) study of the language system must be separated from the study of language development, usage-based linguists take an evolutionary approach in which linguistic structure is generally analyzed in light of its development – in language history, language acquisition, and language evolution.

Research relevant to the usage-based approach has appeared in various quarters of the language sciences, e.g. in functional and cognitive linguistics, linguistic typology, psychology, philosophy, and computer science. However, as it stands, the various strands of research are only loosely connected. As a Wiko

Fellow, I will work on a project that seeks to integrate the various strands of usage-based research into a (more) unified approach. The project will be organized around two general themes. First, it will be concerned with the various cognitive mechanisms that cognitive linguists and psychologists have proposed to explain how linguistic structure is shaped by communication and processing; and second, it will be concerned with the nature of emergent categories and the dynamics of the linguistic system (i.e., the evolution of grammar). Combining evidence from synchronic and diachronic corpus studies, the project will elaborate some central hypotheses about the relationship between usage, structure, and development and the underlying cognitive mechanisms of grammar evolution.

Recommended Reading

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—. *Demonstratives: Form, Function, and Grammaticalization*. Amsterdam: John Benjamins, 1999.

—. “Frequency Effects in Language Acquisition, Language Use, and Diachronic Change.” *New Ideas in Psychology* 25 (2007): 108–127.

ELHADJI IBRAHIMA DIOP

von September bis Dezember 2015

Dr. phil. habil., Professor für deutsche Literatur und ihre Didaktik

Universität Cheikh Anta Diop de Dakar, Senegal

Geboren 1956 in Keur Madiabel, Senegal

Studium der Germanistik an der Universität Leipzig und an der Universität
Gesamthochschule Essen

EUROPÄISCHE AUFKLÄRUNG UND DIE MODERNE IN AFRIKA: ZUM GEGENWARTSBEZUG DER ENT- WICKLUNGSTHEORIEN DER AFRIKADISKURSE DER AUFKLÄRUNG

Das geplante Projekt soll erstmals Fragestellungen miteinander verbinden, die von der Forschung bisher getrennt untersucht wurden: das lebhaftere Interesse der historischen Wissenschaften an den Debatten über Afrika und die Konstituierung der Moderne in Afrika. Ich versuche eine theoretische Verbindung zwischen den spezialwissenschaftlichen Interessen (Anthropologie, Philosophie des 18. Jahrhunderts) und den gegenwärtigen entwicklungstheoretischen Fragen herzustellen, die für die Positionierung Afrikas in der Globalisierung bestimmend sind. Für die theoretische Einordnung dieser Diskussion beziehe ich mich auf Konzepte wie Modernisierungsversuche, Aufarbeitung politischer Fremd- und Eigenverantwortung. In diesem Zusammenhang verweise ich auf Positionen der *postcolonial studies*, vor allem solche, die aus der Perspektive der Afrikawissenschaften und in philosophischer Hinsicht dem afrikanischen Diskurs über die Vergangenheitsbewältigung einen neuen Stempel aufdrückten. Dieser kritische Bezug wird ergänzt und vertieft durch wichtige Vorarbeiten von Sozialwissenschaftlern, die in der westlichen Wissenschaftspolitik unbekannt oder nur marginal sind: die Hegel- und Marx-Kritiken, die Auseinandersetzung mit der Universalität, die Kapitalismuskritik und die wirtschaftlichen Theorien der peripheren Entwicklung. Der Sonderweg der

Implementierung von Traditionen aus dem Erbe der Aufklärung in Afrika ist noch unerforscht. In dieser Arbeit soll aufgezeigt werden, dass die Kritik an der Aufklärung eine Kritik an der Moderne in Afrika ist.

Lektüreempfehlung

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—. „Die Kant-Forster-Kontroverse über Menschenrassen als Wendepunkt der europäischen Afrikadiskurse.“ In *Klopffechtereien – Missverständnisse – Widersprüche? Methodische und methodologische Perspektiven auf die Kant-Forster-Kontroverse*, herausgegeben von Rainer Godel und Gideon Stiening, 179–190. Paderborn: Wilhelm Fink, 2012 (Laboratorium Aufklärung, Bd. 10).

PAULA DROEGE

from September to December 2015

Ph.D., Senior Lecturer in Philosophy

Pennsylvania State University

Born in 1963 in Chicago

Studied Philosophy of Children at Montclair State University and

Philosophy at the University of Connecticut

WHY NOW? HOW CONSCIOUSNESS TRACKS TIME

Focus Group *Pain* (see p. 132)

How does a brain manage to produce conscious pain? This is partly a theoretical question and partly an empirical one, and the two parts are best explored in dialectic with one another. My project as part of the *Pain* working group involves the theoretical question: what it means for sensory representations to be selected, what ways a brain functions such that its relations might count as selecting a representation for consciousness. I propose that consciousness has the unique function of keeping track of *time*. While every interaction in the world, even unconscious actions like walking while engaged in deep conversation, involves appropriate timing, conscious interactions track the world as it is *now*. The current situation constitutes the content of the representation, not just its cause. Time plays a particular role in consciousness by means of the selection and coordination of features that form a representation of the present moment.

This way of thinking about consciousness is supported by consideration of its adaptive value. The need for a representation of the present moment arises when alternative actions are possible in response to the current environment. In order to switch goals to exploit an unexpected resource or to experiment with alternate methods of reaching a goal, an animal must be able to determine what is happening now in relation to the desired goal state. Function differentiates unconscious response – automatic, stereotyped action – from conscious response

– controlled, flexible behavior. The phenomenological structure of consciousness requires a representation of the present moment, and flexible behavior also requires a representation of the world as it is now in order to assess progress toward goals. Function connects phenomenology with behavior, providing a means for third-person evaluation of the capacity for consciousness.

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DIETER EBERT

Permanent Fellow of the Wissenschaftskolleg
Dr. phil., Professor of Zoology and Evolutionary Biology
University of Basel

Born in 1961 in Saarburg, Germany
Studied Biology and Chemistry at the Technische Universität München, the
University of South Alabama, and the University of Basel

THE EVOLUTION OF STEPWISE EVOLUTIONARY PROCESSES

My research interest is to understand biological diversity, i.e., the evolution of traits that make organisms look and function differently. In my project, I will focus on the biological defense against pathogens. A host may defend itself against a pathogen by a stepwise defense cascade: it may avoid contact with the pathogen, hinder it from entering the body and – if the pathogen has entered the body – kill it with the help of its immune system. The steps of such a sequence depend on each other, as an evolutionary change in one step has consequences for the evolution of the other steps. I want to understand the underpinnings of the evolution of such structures, with a focus on the specific processes of defense cascades against natural pathogens. Such defense systems are relevant not only in biology, but also to many aspects of past and current human interactions, such as the walls of a medieval city protecting against an invading army, a computer system that needs to be protected against hackers, and a government that needs to prevent taxpayers from escaping paying taxes. The principles underlying such defense cascades are rather general and can be applied to biology as well as human interactions. A victim may protect itself by installing multiple walls, each with specific features aimed at repelling the enemy. On the other hand, one step of defense might be enough to protect the victim. But which one? Would it be the strongest wall, the most expensive, or maybe the first one in place? How do compromises between quality and costs contribute to

the decision-making? What role do rare, but potentially devastating attacks play? What role does the aggressor play in coming up with new strategies of aggression (in biology this is called coevolution). Under which conditions does the victim need to invent new defense steps?

With my project I hope to gain a better understanding of how such complex stepwise systems evolve. I want to explore whether there are general rules determining the evolutionary processes at work and whether they result in patterns we can predict and observe in natural systems. Furthermore, I want to explore whether it is possible to make predictions about the evolution of such a system when it is disturbed, for example when the environment changes or when new pathogens invade. Answering these questions would be a major step forward in understanding the biodiversity of defense.

Recommended Reading

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—. (2005). “Ecology, Epidemiology, and Evolution of Parasitism in *Daphnia*.” Bethesda (MD): National Library of Medicine (US), National Center for Biotechnology Information. Open access source: www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Books

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FINBARR BARRY FLOOD

Ph.D., William R. Kenan Jr. Professor of the Humanities

Institute of Fine Arts and Department of Art History, New York University

Born in 1965 in Dublin

Studied Mental and Moral Science with Classical Archaeology at Trinity

College Dublin and Art History at the University of Edinburgh

1. ISLAM AND IMAGE: MATERIALS FOR A HISTORY (BOOK PROJECT)

2. COPYING THE KA'BA: SURROGACY AND SANCTITY IN MEDIEVAL ISLAM (BOOK PROJECT)

Ad 1. In recent European debates on immigration and assimilation, Islam's relationship to the *shibboleths* of secularism has sometimes been emblemized by a problematic relation to the image. The articulation of notions of cultural and religious alterity around incommensurate concepts of the image has a long history in European representations of Islam. This book project opens by tracing that history across the *longue durée*. It then considers a range of normative textual materials for the history of attitudes toward images in Islam, including aspects of *hadith* and *fiqh* (jurisprudence), attempting to relate the norms promoted in such texts to the world of artistic and quotidian practice. The final section of the book considers the reception of new modes of the image (such as monumental public statuary) and new imaging technologies (such as lithography and photography) in the Islamic world and its implications for both histories of the image and discourses of modernity.

Ad 2. This project addresses tensions between presentation (or “presentification”) and representation, between originals and copies, doubles and substitutes as they relate to the materiality of devotional practice in the Islamic world. It engages questions of animacy, efficacy, and materiality, as well as more prosaic

questions of circulation, transmission, and reception, topics that are of contemporary interest across a range of disciplines and fields. The aim is to explore three distinct but interrelated aspects of devotional practice, building toward a reevaluation of mimesis itself: copies of the Ka'ba, the focal shrine of Islam; the replication of certain relics of the Prophet as images; and associated practices of devotion that involve the ingestion of texts (logophagy) and images (iconophagy). The project aims to explore the materiality of devotion comparatively, considering similar objects and practices in Christianity and Judaism, for example, in relation to tensions between being, imitating, and becoming that all three phenomena engage in different ways.

Recommended Reading

Flood, Finbarr B. *Objects of Translation: Material Culture and Medieval "Hindu-Muslim" Encounter*. Princeton: Princeton University Press, 2009.

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—. "From the Prophet to Postmodernism? New World Orders and the End of Islamic Art." In *Making Art History: A Changing Discipline and its Institutions*, edited by Elizabeth C. Mansfield, 31–53. New York: Routledge, 2007.

RAGHAVENDRA GADAGKAR

Permanent Fellow of the Wissenschaftskolleg

Ph.D., Professor of Ecology, Centre for Ecological Sciences and Chairman,

Centre for Contemporary Studies, Indian Institute of Science, Bangalore

President, Indian National Science Academy (INSA)

Born in 1953 in Kanpur, India

Studied Zoology and Molecular Biology in Bangalore

THE EVOLUTION OF ALTRUISM IN INSECT SOCIETIES: DO WE NEED A PARADIGM SHIFT?

Many insect species, particularly those of ants, bees, wasps and termites, live in societies resembling and, in some respects, surpassing human societies. The most striking feature of these societies, especially for an evolutionary biologist, is that usually one or only a small number reproduce while the rest work altruistically for the welfare of their colony. The mechanism of evolution of such altruistic behaviour has been an enduring paradox, ever since Darwin first noticed it. A dominant paradigm for formulating and testing theories for the evolution of altruism has been the idea that, under certain conditions, altruism can be favoured by natural selection if it is directed to close genetic relatives – variously labeled as kin selection, inclusive fitness theory and Hamilton’s rule. All my research using the primitively eusocial wasp *Ropalidia marginata* which occurs in Southern India, has been and continues to be firmly embedded in this paradigm. I believe that this paradigm has served us well in demystifying the altruism of our wasps (1, 2).

In recent years however, E. O. Wilson, perhaps the most prominent exponent of this paradigm (3), has teamed up with a group of mathematicians and has claimed that this paradigm has outlived its utility and perhaps was wrong from the beginning. These “rebels” have proposed simple, “old-fashioned” natural selection, often called individual selection, as a better, more universal paradigm (4). In addition, E. O. Wilson himself has often turned to group selection, at the

other extreme, as a powerful explanatory framework (5). The mainstream kin selection community has reacted very negatively, denouncing this heresy and swearing by the validity of the kin selection paradigm (6). I find this response problematic and have written an article calling for all possible support and encouragement to the “heretics” to try to prove the mainstream wrong, if at all possible (7). But the strong opposition continues and I have now written a second article describing and interpreting the response of the mainstream scientists (8). This year I propose to take the next logical step in my journey and that is to re-examine all our data on the wasps with an open mind to see how problematic kin selection really is and to what extent we can and need to turn to individual and/or group selection to better explain the behaviour of our wasps (9). This will complete a trilogy of sorts, if I may be so immodest as to use that word.

1. Gadagkar, R. (1997). *Survival strategies: cooperation and conflict in animal societies*. Cambridge, Mass.: Harvard University Press.
2. Gadagkar, R. (2001). *The social biology of Ropalidia marginata: toward understanding the evolution of eusociality*. Cambridge, Mass.: Harvard University Press.
3. Wilson, E. O. (1971). *The Insect Societies*. Cambridge, Mass.: Belknap/Harvard University Press.
4. Nowak, M. A., C. E. Tarnita, and E. O. Wilson (2010). “The evolution of eusociality.” *Nature* 466: 1057–1062.
5. Wilson, E. O. (2012). *The Social Conquest of Earth*. New York: W. W. Norton.
6. Abbot, P. et al. (2011). “Inclusive fitness theory and eusociality.” *Nature* 471, 7339: E1–E4.
7. Gadagkar, R. (2010). “Sociobiology in turmoil again.” *Current Science* 99, 8: 1036–1041.
8. Gadagkar, R. [submitted]. “Can naïve biologists test controversial mathematical theory?”
9. Gadagkar, R. [in preparation]. “Evolution of social behaviour in the primitively eusocial wasp *Ropalidia marginata*: do we need to look beyond kin selection?”

PETER GÄRDENFORS

Ph.D., Professor of Cognitive Science
Lund University

Born in 1949 in Degeberga (Sweden)
Studied Cognitive Science at Lund University

THE EMERGENCE OF MEANING FROM COOPERATIVE
COMMUNICATION: TOWARDS AN EVOLUTIONARY
THEORY OF SEMANTICS

Focus Group *Biological, Cultural and Social Origins of Language* (see p. 127)

Theories of language evolution tend to focus on syntactic structures. In contrast, I plan to study the evolution of semantics. Based on my earlier analyses of the connections between the evolutionary basis for cognition, collaboration and communication, I want to work on some topics that are important for the evolution of semantics: division of labour; collaboration for future goals; and the foundations for conventions and contracts. There are two kinds of cooperation typical among humans: cooperation towards future goals and indirect reciprocity. Reciprocal altruism (“you scratch my back and I’ll scratch yours”) is found in several animal species. Indirect reciprocity is a more extreme form of altruism: “I help you and somebody else will help me.” The game-theoretical conditions for this to evolve as an evolutionarily stable strategy have recently been modelled. The crucial aspect for my argument is that these conditions presume complex forms of intersubjectivity and communication.

The central cognitive requirement for conventions is that they presuppose enduring joint beliefs or common knowledge. In general, joint beliefs form the basis for much of human culture. Commitments and contracts are special cases of cooperation about the future involving joint beliefs. When you commit yourself to someone to do some action, you intend to perform the action in the future; the other person wants you to do it and intends to check that you do it;

and you and they have joint beliefs concerning these intentions and desires. Commitments cannot arise unless the agents have the capacity for cognitive foresight and can form joint beliefs. A contract also depends on the possibility of future sanctions.

For the semantic theme, I build on a cognitive model of events that I have developed together with Massimo Warglien and use it to explain thematic roles and the emergence of word classes as semantic structures. This will generate cognitively motivated constraints on semantics and syntax. I utilize this event model to analyse the communicative functions of different word classes. I will combine this analysis with the results of the analysis of cooperation. The objective is to show that the communicative demands of planning for future goals, for indirect reciprocity and for the formation of contracts motivate the natural division of the symbols used in communication into nouns, verbs, adjectives etc. Thus my goal is to show how the evolution of semantics, rather than syntax, can provide a cognitive grounding for the word classes that are found in almost all languages. Furthermore, the thematic roles that have been in the focus of much research in linguistic semantics will turn out to be natural components of the event model. Thus, the event model will be central in deriving semantic and probably also syntactic constraints on a language. My work in the development of these analyses will tie in closely with the themes of Holger Diessel and Luc Steels.

Recommended Reading

Gärdenfors, Peter. *The Geometry of Meaning: Semantics Based on Conceptual Spaces*. Cambridge, Mass.: MIT Press, 2014.

—. *How Homo Became Sapiens: On the Evolution of Thinking*. Oxford: Oxford University Press, 2003.

—. *Conceptual Spaces: The Geometry of Thought*. Cambridge, Mass.: MIT Press, 2000.

LUCA GIULIANI

Rektor des Wissenschaftskollegs

Dr. phil., Professor für Klassische Archäologie

Humboldt-Universität zu Berlin

Geboren 1950 in Florenz

Studium der Klassischen Archäologie, Ethnologie und

Italienischen Literaturwissenschaft an der Universität Basel

und an der Ludwig-Maximilians-Universität München

SOKRATES ALS SATYR

Im Jahr 399 v. Chr. wurde der athenische Philosoph Sokrates wegen Missachtung der Götter (*asébeia*) vor Gericht gestellt und zum Tode verurteilt. Zwei oder drei Generationen später muss die Polis diese Hinrichtung bereut haben: Sokrates wurde rehabilitiert und erhielt eine öffentliche Statue. Aber es gab noch ein anderes Bildnis von ihm, das der Rehabilitierung vorausging: Es handelte sich vermutlich um eine Statue, die von seinen Schülern als Weihgeschenk in ein Heiligtum gestiftet wurde. Beide Bildnisse sind im Original verloren, aber von beiden besitzen wir Kopien aus der römischen Kaiserzeit; und beide zeigen den Philosophen mit den Gesichtszügen eines Satyrn.

In enger Beziehung dazu stehen zwei Dialoge, die denselben Titel tragen: *Sympósion* (Gastmahl). Der eine stammt von Platon, der andere von Xenophon. In beiden Dialogen wird (überraschenderweise) die Physiognomie des Sokrates thematisiert, und wieder geht es um dessen Ähnlichkeit mit einem Satyrn.

Das früheste Bildnis kann kaum älter als 387 sein, als Platon nach längerer Abwesenheit wieder nach Athen zurückkehrte. Die Zeitstellung der beiden Dialoge ist unklar und umstritten, aber mit an Sicherheit grenzender Wahrscheinlichkeit geht keiner von beiden der Errichtung der Bildnisstatue voraus. Es hat also den Anschein, als sei dieses satyrhafte Bild des Sokrates erst geraume Zeit nach dessen Tod entstanden, als vermutlich keiner sich mehr genau daran erinnern konnte, wie der reale Sokrates zu Lebzeiten genau ausgesehen hatte.

Aber unter welchen Umständen und mit welcher Absicht wurde Sokrates einem Satyr angeglichen? Welche Semantik wurde mit dieser Physiognomie verbunden und wie ist sie von den Zeitgenossen verstanden worden? In formaler Hinsicht sind die beiden Symposia etwas Neues, sie folgen keinem damals etablierten literarischen Genre. Warum dieser Bruch mit den literarischen Konventionen? Und gibt es irgendeine Beziehung zwischen diesem Bruch und dem Umstand, dass Sokrates mit dem Gesicht eines Satyrs dargestellt wird? Diese Fragen untersuche ich in einem gemeinsamen Projekt mit Maria Luisa Catoni (Fellow 2009/10).

Lektüreempfehlung

- Giuliani, Luca. „Das älteste Sokrates-Bildnis: ein physiognomisches Porträt wider die Physiognomiker.“ *Freiburger Universitätsblätter* 35, 1996: 9–28; Nachdruck in: *Bildnisse. Die europäische Tradition der Porträtkunst*, herausgegeben von Wilhelm Schlink, 11–55. Freiburg/Breisgau: Rombach, 1997.
- . „Il ritratto.“ In *Una storia greca II: Definizione*, herausgegeben von Salvatore Settis, 983–1011. Torino: G. Einaudi, 1997.

SUSAN GOLDIN-MEADOW

from April to July 2016

Ph.D., Beardsley Ruml Distinguished Service Professor of Psychology
and Comparative Human Development
University of Chicago

Born in 1949 in New York

Studied Psychology at Smith College, Northampton, Mass. and at the
University of Pennsylvania

FROM SPONTANEOUS SIGN SYSTEMS TO SIGN LANGUAGE

Focus Group *Biological, Cultural and Social Origins of Language* (see p. 127)

Deaf children whose hearing losses prevent them from accessing spoken language and whose hearing parents have not exposed them to sign language are effectively deprived of input from a conventional language. Despite their lack of linguistic input, these children develop gesture systems, called homesigns, that have many of the properties of natural language. The fact that children can develop certain linguistic properties under relatively impoverished language learning circumstances provides strong evidence for the resilience of these properties. But homesign does not exhibit all of the properties of natural language. The goal of this project is to explore the conditions under which homesign becomes a full-blown language and, in particular, to explore the impact of age, community, and transmission across generations on three aspects of sentence structure – how the verb is structured, how arguments are marked, and how the sentence is modulated.

Recommended Reading

- Goldin-Meadow, Susan. *The Resilience of Language: What Gesture Creation in Deaf Children Can Tell Us About How All Children Learn Language*. New York: Psychology Press, 2003.
- Goldin-Meadow, Susan, Wing Chee So, Aslı Özyürek, and Carolyn Mylander. "The Natural Order of Events: How Speakers of Different Languages Represent Events Nonverbally." *Proceedings of the National Academy of Sciences* 105, 27 (2008): 9163–9168.
- Goldin-Meadow, S., D. Brentari, M. Coppola, L. Horton, and A. Senghas. "Watching Language Grow in the Manual Modality: Nominals, Predicates, and Handshapes." *Cognition* 135 (2015): 381–395.

MICHAEL D. GORDIN

Ph.D., Professor of History
Princeton University

Born in 1974 in New Jersey
Studied History of Science at Harvard University

EINSTEIN IN BOHEMIA

Albert Einstein taught at the German University in Prague from the late spring of 1911 to the summer of 1912. This particular sojourn has not greatly impressed his biographers. Einstein had passed through his *annus mirabilis* in Switzerland in 1905, and he would not hit on the right track for his theory of gravity, General Relativity, until his return to Zurich from Prague. This year, Einstein's first as a full professor, is relegated to a few paragraphs at best, largely consisting of quotations about how much Einstein disliked his time there. Historians of Prague likewise have little to say about this epoch, sandwiched as it is between the high drama of the Czech Renaissance of the late nineteenth century, on the one hand, and the Great War and the creation of the First Republic of Czechoslovakia, on the other. This project aims to take this relatively unremarkable period and deploy it to two ends. First, the relative quiescence of this period for Einstein and for Prague – both extremely well documented historical entities – provides the potential for a counter-history of these two subjects that are most often treated teleologically (toward General Relativity and world fame for Einstein; toward a monoethnic and monolingual nation-state on the other). Second, although Einstein's social and scientific contacts in Prague were minimal – the German University, which had been created alongside the Czech University in 1882, was relatively isolated, and Einstein learned no Czech – one can still follow the tracks of the few he did make to paint a series of portraits of Prague as a scientific city across several centuries, ranging from the foundation of Charles University, to Tycho Brahe and Johannes Kepler's collaboration in the Rudolfiner city, to the scientific careers of both Christian Doppler and Ernst

Mach, to the fate of Jewish scientists in the Czech Holocaust, to the growth of the philosophy of science in both the United States and the Soviet Union.

Recommended Reading

Michael D. Gordin. *Scientific Babel: How Science Was Done Before and After Global English*. Chicago: University of Chicago Press, 2015.

—. *The Pseudoscience Wars: Immanuel Velikovsky and the Birth of the Modern Fringe*. Chicago: University of Chicago Press, 2012.

—. *A Well-Ordered Thing: Dmitrii Mendeleev and the Shadow of the Periodic Table*. New York: Basic Books, 2004.

STEPHEN GREENBLATT

Permanent Fellow of the Wissenschaftskolleg
Ph.D., The Cogan University Professor of the Humanities
Harvard University

Born in 1943 in Cambridge, Massachusetts
Studied English Literature at Yale University
and at Cambridge University

THE RISE AND FALL OF ADAM AND EVE

I am writing a book about the rise and fall of Adam and Eve, perhaps the greatest story ever told, or at least the story with the most far-reaching consequences. The account of the first man and the first woman – central to all three of the world’s monotheistic religions and the object of innumerable representations by painters, sculptors, and poets – was for thousands of years the dominant origin story of the human race. And, though we know it from Genesis, Adam and Eve’s fate cannot be understood only as a piece of religious ideology. Much older than Christianity and Islam and older even than any recognizable form of Judaism, it helped innumerable generations to explain to themselves who they were, where they came from, and why they were forced to work, bear children in pain, and suffer death.

That its credibility has collapsed in the modern age makes it possible – as it would not have been in the past – to understand it as an act of inspired storytelling, whose apogee came in the High Renaissance, and possible too to consider what it means to shift uncertainly, as we have done, toward a different story. To probe our relation to our own origins – our ways of imagining the *Australopithecus afarensis* “Lucy”, our understanding of our genetic inheritance, our intimation of the secret links that tie us to our primate ancestors – is to grapple with what it means to live now, on the other side of the great myth that once told us who we were.

Recommended Reading

Greenblatt, Stephen. *The Swerve: How the World Became Modern*. New York: W. W. Norton, 2011.

Greenblatt, Stephen, with Ines G. Županov, Reinhart Meyer-Kalkus, Heike Paul, Pál Nyíri, and Friederike Pannewick. *Cultural Mobility: A Manifesto*. Cambridge, Mass.: Cambridge University Press, 2009.

—. *Shakespeare: Freiheit, Schönheit und die Grenzen des Hasses*. Frankfurt/Main: Suhrkamp, 2007.

—. *Will in the World: How Shakespeare Became Shakespeare*. New York: W. W. Norton, 2004.

DIETER GRIMM

Permanent Fellow des Wissenschaftskollegs

Rektor des Wissenschaftskollegs (2001–2007)

Dr. Dr. h.c. mult., LL.M. (Harvard), Professor (em.) des Öffentlichen Rechts

Humboldt-Universität zu Berlin

Bundesverfassungsrichter a. D.

Geboren 1937 in Kassel

Studium der Rechtswissenschaft und Politikwissenschaft in Frankfurt/Main,

Freiburg/Breisgau, Berlin, Paris und Harvard

VERFASSUNG UND VERFASSUNGSGERICHTSBARKEIT

Mehrere hundert Jahre lang war öffentliche Gewalt identisch mit Staatsgewalt. Dementsprechend entstand die Verfassung, die die öffentliche Gewalt organisiert, legitimiert und limitiert, als Staatsverfassung. Die Identität von öffentlicher Gewalt und Staatsgewalt ist mittlerweile entfallen. Öffentliche Gewalt wird auch jenseits des Staates von supranationalen Organisationen ausgeübt. Die Staatsverfassung erfasst daher die auf dem Territorium des Staates wirkende öffentliche Gewalt nur noch teilweise. Äußerlich seit der säkularen Wende von 1989/90 auf ihrem Höhepunkt angekommen, ist die Verfassung innerlich einer Erosion ausgesetzt. Zentrale Begriffe und Funktionen der Verfassung müssen daher neu definiert werden. Zugleich stellt sich die Frage nach der Legitimierung und Limitierung derjenigen öffentlichen Gewalt, die von supranationalen Organisationen ausgeübt wird. Ist sie ebenfalls nach Art der Verfassung regulierbar oder müssen in Bezug auf sie neue Formen rechtlicher Begründung und Begrenzung entwickelt werden? Darüber besteht alles andere als Klarheit. Auch insoweit gibt es also Klärungsbedarf, ebenso wie hinsichtlich des Verhältnisses von traditioneller Staatsverfassung und neuartigen Regulierungen der nicht staatlichen öffentlichen Gewalt.

Zugleich mit der weltweiten Verbreitung der Verfassung hat sich in der zweiten Hälfte des 20. Jahrhunderts auch die Verfassungsgerichtsbarkeit als

Mittel zur Gewährleistung der Verfassung gegenüber der Politik weltweit durchgesetzt. Verfassungsgerichtsbarkeit ist heute ein integraler Bestandteil des Konstitutionalismus. Beide müssen zusammen gesehen werden. Über Erfolgsbedingungen der Verfassungsgerichtsbarkeit ist allerdings noch wenig bekannt. Auch ihre Bewertung differiert stark. Während sie in den USA vornehmlich unter dem Gesichtspunkt der Bedrohung von Demokratie diskutiert wird, gilt sie in den jüngeren Demokratien als Garant von Demokratie. Zudem ist mit der Internationalisierung öffentlicher Gewalt auch ein Anteil der Verfassungsgerichtsbarkeit auf internationale Gerichte übergegangen. Im Unterschied zu nationalen Gerichten operieren sie jedoch unter anderen Bedingungen und in einem anderen Kontext. Ihre Einbindung in einen kontinuierlichen Diskussionszusammenhang und ihre Rückkopplung an die Gemeinschaft, für die sie Recht sprechen, ist wesentlich geringer als bei staatlichen Gerichten. Welche Folgen hat das für die Ausübung der richterlichen Funktion auf supranationaler Ebene?

Die Antworten auf diese Fragen verlangen eine vergleichende Verfassungslehre, die aber erst in ihren Anfängen steht. Darum geht es mir bei den Forschungen am Wissenschaftskolleg.

Lektüreempfehlung

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—. „Braucht Europa eine Verfassung?“ *Juristenzeitung* (1995): 581–591.

LEOR HALEVI

EURIAS Fellow (see p. 136)

Ph.D., Associate Professor of History

Vanderbilt University Nashville, Tennessee

Born in 1971 in Montreal

Studied History and Middle Eastern Studies at Yale University and at Harvard University

FORBIDDEN GOODS: CROSS-CULTURAL TRADE IN ISLAMIC LAW

My broad project, a two-volume work, examines historically Muslim legal perceptions of non-Muslim commodities during the rise of Islam and in the modern age. In the medieval period, many experts on Islamic law earned their livelihood as merchants and thus appreciated the benefits of cross-cultural trade. Yet, they worried that through such trade they would expose their bodies and communities to impurity, and so they proposed ideological restrictions to regulate this commerce. This resulted in a productive tension in Islamic legal thought between an economic interest in porous communal boundaries and a religious interest in social exclusivity. As medieval jurists reflected on non-Muslims and their worldly goods, they also sought, in different ways in different historical circumstances, to define an Islamic social identity.

In modern times, high-ranking jurists known as muftis have continued this medieval legacy in some respects. They have cultivated a religious identity and calibrated their gauge of modernity through sentences against new technological objects made in the West. Yet, the strength of revivalism in the twentieth century has resulted in the elaboration of arresting juxtapositions between modern things and sacred laws.

My topic has been neglected due to the disciplinary boundaries that tend to confine academic research in the humanities and social sciences. Economic historians have paid little attention to pious Muslim ideals concerning trade with

non-Muslims, either because it is difficult to measure the impact of religious interests on economic behavior or because of a neoclassical tendency to dismiss religious interests as economically irrelevant. Religious scholars, for their part, have paid no serious attention to the ethics of cross-cultural trade. Perhaps this is due to the impression that an economic topic such as trade lies outside of the proper study of religion. But the Shari'a, Islam's sacred law, includes legislation not only about purity rites and scriptural dogmas, but also about commercial transactions, behavior in the marketplace, and the production of worldly goods. Studying this moral economy will lead to a deeper methodological understanding of the impact of economic exchange upon religion.

Recommended Reading

Leor Halevi. *Muhammad's Grave: Death Rites and the Making of Islamic Society*. New York: Columbia University Press, 2007.

—. "The Consumer Jihad: Boycott Fatwas and Nonviolent Resistance on the World Wide Web." *The International Journal of Middle East Studies* 44 (2012): 45–70.

—. "Christian Impurity vs. Economic Necessity: A Fifteenth-Century Fatwa on European Paper." *Speculum* 83 (2008): 917–945.

INA HARTWIG

Dr. phil., Literaturkritik

Freie Mitarbeit u. a. für die *Süddeutsche Zeitung* und *Die Zeit*

Frankfurt/Main

Geboren 1963 in Hamburg

Studium der Romanistik und Germanistik an der Université d'Avignon und

der Freien Universität Berlin

GERÜCHT UND/ODER WAHRHEIT: DER FALL INGEBORG BACHMANN

„Die Wahrheit ist dem Menschen zumutbar“ lautet ein berühmter Satz Ingeborg Bachmanns. Daran haben sich die Erben ihres Nachlasses allerdings nicht gehalten. Wichtige Teile, darunter der Briefwechsel der Dichterin mit Max Frisch, sind bis auf Weiteres nicht einsehbar. Auch deshalb blühen, spätestens seit ihrem Tod 1973, Gerüchte und Mythen. Nun war Ingeborg Bachmann selbst eine Meisterin der Geheimhaltung; die verschiedenen Sphären und Freundschaften ihres Lebens trennte sie bisweilen streng voneinander. So fällt, um nur ein Beispiel zu nennen, der Name Paul Celan in ihrem umfangreichen Briefwechsel mit Hans Werner Henze niemals – was nur symptomatisch zu lesen ist. Bachmanns biografische Wahrheit stellt, trotz vorhandener biografischer Annäherungen, weiterhin eine Herausforderung dar, schon allein psychologisch. Hinzu kommt die desolante editorische Lage: Eine historisch-kritische Gesamtausgabe existiert bis heute nicht. Dem steht eine reiche, kaum zu überblickende Rezeptionsgeschichte ihres Werks gegenüber. Es ist faszinierend, für welche Interpretationen und Projektionen diese Schriftstellerin einsteht. Mein Arbeitsvorhaben könnte man als „wilde Biografie“ bezeichnen in der Tradition der „Biographeme“ Roland Barthes'. Überhaupt sympathisiere ich mit einem strukturalistischen Ansatz. Ein einheitliches Narrativ kann nicht das Ziel sein. Stattdessen: Vertiefung in drängende, subjektive Fragestellungen auf der Basis akribischer Recherche und Erforschung von Quellen. Dazu zähle ich

die vorhandenen Werkausgaben, Archivalien (soweit zugänglich), die Medien ihrer Zeit (Fotografie, Film, Magazine, Zeitungen) sowie Zeitzeugen. Meine Arbeit über den „Fall“ Ingeborg Bachmann ist bestrebt, die spezifische, durchaus beunruhigende Energie dieser Persönlichkeit neu zu fokussieren. Wer war Ingeborg Bachmann? Die Frage führt zu dem zurück, der sie (sich) stellt.

Lektüreempfehlung

Hartwig, Ina. *Das Geheimfach ist offen*. Frankfurt/Main: Fischer, 2012.

HASSAN JABAREEN

LL.M., Founder and General Director

Adalah – The Legal Center for Arab Minority Rights in Israel

Born in 1964 in Nazareth, Israel

Studied Law and Philosophy at Tel Aviv University and International Human

Rights Law at the American University, Washington College of Law

PAST, PRESENT, AND THE RULE OF LAW: THE LEGAL STATUS OF PALESTINIAN CITIZENS OF ISRAEL

My project is to conduct research for a book about Israeli law and Palestinian citizens of Israel. For this project, I will analyze Israeli law, including Supreme Court case law, regarding the civil and political rights as well as the economic, social, and land rights of the Palestinian citizens. The research will also examine group rights protections such as for language, culture, and religion. The special significance of this book is that there is no thorough, updated, legal research analyzing the legal status of the Palestinians in Israel. Comprehensive legal research, which covers the Palestinian citizens' fundamental rights (as individuals and as a national community), will add significantly to the understanding of their citizenship and political status in Israel. My methodology will include examining the constitutional foundational values of Israel, as laid down in 1948–1949 with the state's establishment, and assessing their influence and effect on the law regarding the Palestinian citizens' status in the past and in the present. Since there is no national reconciliation yet between Israel and the Palestinians, and thus there is no "new beginning", the constitutional principles and values set forth at the state's foundational moments are significant for any constitutional discussion regarding the Palestinians' citizenship and national minority rights.

Recommended Reading

Jabareen, Hassan. "Hobbesian Citizenship: How the Palestinians Became a Minority in Israel." In *Multiculturalism and Minority Rights in the Arab World*, edited by Will Kymlicka and Eva Pförtl, 189–218. Oxford: Oxford University Press, 2014.

—. "Transnational Lawyering and Legal Resistance in National Courts: Palestinian Cases Before the Israeli Supreme Court." *Yale Human Rights and Development Journal* 13, 1 (2010): 65–83.

—. "The Future of Arab Citizenship in Israel: Jewish-Zionist Time in a Place With No Palestinian Memory." In *Challenging Ethnic Citizenship: German and Israeli Perspectives on Immigration*, edited by Daniel Levy and Yfaat Weiss, 196–220. New York: Berghahn, 2002.

MICHAEL JARRELL

Professeur à l'Universität für Musik und darstellende Kunst Wien et
Professeur de Composition à la Haute école de musique de Genève

Né en 1950 à Genève

Études de composition et de théorie de musique à la Hochschule für Musik
Freiburg

DEUX PROJETS D'ÉCRITURE ...

Écriture d'un concerto pour viola et grand orchestre. Cette pièce sera écrite pour la soliste Tabea Zimmermann. J'aimerais continuer un certain nombre de recherches sur de nouveaux modes de jeu (en particulier sur les harmoniques). Dans mon concerto de violon écrit pour Isabelle Faust, j'ai déjà travaillé sur la production d'harmoniques doubles ainsi que des trémolos d'harmoniques et de leurs fondamentales. Les cordes plus graves de l'alto permettent évidemment beaucoup plus de possibilités, mais ceci ne serait que le début du travail de recherche, car j'aimerais suivre certaines autres pistes.

Lié à ce projet d'écriture, j'aimerais approfondir certaines recherches que j'avais commencées sur une grammaire musicale générative et sur certains outils de la CAO (composition assisté par ordinateur).

Depuis les premières publications sur le langage-L (formalisation développée par le biologiste Aristide Lindenmayer pour modéliser le processus de développement et de prolifération des plantes (L-System)), plusieurs compositeurs ont travaillé sur ce sujet. Pour ma part, il ne s'agit ni de créer des procédés de composition automatique, ni de constituer une théorie totalisante, mais de faire usage d'une grammaire principalement dans le but de trouver des cohérences à un problème qui se pose régulièrement pendant le travail de composition, à savoir, dans quel ordre temporel doit-on enchaîner des événements musicaux et suivant quelles relations causales devront-ils se succéder ?

Il s'agira, par ailleurs, de développer des outils de calcul de haut-niveau pour les classes, les cribles et pour d'autres opérations combinatoires. Beaucoup de ces

outils existent déjà, mais ont une limite importante, l'absence de l'élément temporel ou plus exactement le fait qu'il est actuellement difficile d'effectuer un certain nombre d'opérations où les contraintes se développent et se transforment elles-mêmes dans le temps.

Le deuxième projet d'écriture est le début de la composition d'un opéra autour de « Bérénice » de Racine. Celui-ci sera créé à l'opéra de Paris en octobre 2018, sous la direction de Philippe Jordan et dans une mise-en-scène de Katie Mitchell.

À écouter

Jarrell, Michael. *Cassandre* – opéra parlé d'après Christa Wolf (1994). Récitante, ensemble et électronique. Editions Henry Lemoine, Paris.

—. « ... *Le ciel, tout à l'heure encore si limpide, soudain se trouble horriblement ...* » (2009). Grand orchestre. Editions Henry Lemoine, Paris.

—. *Essaims-Cribles* (1986). Clarinette-basse et ensemble. Editions Henry Lemoine, Paris.

DANIEL JÜTTE

Dr. phil., History

Harvard Society of Fellows, Harvard University

Born in 1984 in Tel Aviv

Studied History and Musicology at the University of Zurich, the University of Heidelberg, and Harvard University

SITES OF PASSAGE IN PREMODERN EUROPE

If a twenty-first-century historian were to take a walk through a medieval or early modern European city, he or she would probably be struck by the amount of attention and the weight of symbolic significance assigned to liminal spaces such as windows, doors, and gates. Far from being regarded as solely or predominantly functional, these sites of passage were highly charged with cultural, social, and political significance, in ways that would be rather alien to the modern observer. An examination of the cultural practices associated with these transitional spaces can provide us with unique insights into perceptions and uses of space in the past.

This project explores the history of domestic and urban space through the lens of the changing, multifaceted story of windows, gates, and doors (ca. 1300–1800). I adopt a pan-European perspective, but I also intend to investigate the role and symbolism of transitional spaces in two other cultures that lend themselves as interesting points of comparison – namely, early modern Islamic and early modern Japanese culture. The project draws on a broad range of archival, printed, and visual sources as well as material objects. One of my goals is to demonstrate that the cultural history of sites of passage can open new and unexpected vistas not only on the history of everyday life but also on the emergence of concepts such as privacy, security, and – not least – on the idea of interior versus exterior.

Recommended Reading

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—. “Entering a City: On a Lost Early Modern Practice.” *Urban History* 41, 2 (2014): 204–227.

—. “Living Stones: The House as Actor in Early Modern Europe.” *Journal of Urban History* (preprint online; forthcoming in print).

MARTIN VON KOPPENFELS

Dr. phil., Professor für Allgemeine und Vergleichende Literaturwissenschaft
Ludwig-Maximilians-Universität München

Geboren 1967 in München

Studium der Allgemeinen und Vergleichenden Literaturwissenschaft,
Hispanistik, Latinistik und Philosophie an der University of Virginia, der
Universität Barcelona und der Freien Universität Berlin

POETIK DES ALPTRAUMS

Gibt es eine Poetik des Alptraums? Der Begriff „Traumpoetik“ ist als solcher in der Literaturwissenschaft durchaus gängig: Bestimmte Charakteristika poetischer Texte sind – mit guten psychologischen Gründen – immer wieder von denen des Traums abgeleitet worden. Kulturelle Allianzen zwischen Traum und Dichtung, wie sie beispielsweise in der Frühromantik oder im Surrealismus propagiert wurden, sind ein fester Bestandteil zumindest des westlichen Literaturbegriffs geworden. Aber schließen diese Bezüge auch jene affektiv extremen und sowohl phänomenologisch als auch klinisch von anderen Träumen unterscheidbaren Erfahrungen ein, die wir mit einem halbmythologischen Begriff als „Alpträume“ bezeichnen? Das vorliegende Projekt verfolgt die Hypothese, dass dies in der Tat so ist, und geht den Konsequenzen nach, die diese Annahme für die Bestimmung der emotionalen Funktion literarischer Texte hat. Von besonderer Bedeutung ist dies für die Theorie der Tragödie, die hier als alptraum-affine Gattung in Betracht kommt. Die These hat jedoch im Gegenzug auch Konsequenzen für die Psychologie des Traums, die ebenfalls darum ringt, den Alptraum in ihre Konzepte zu integrieren (Beispiel: Freuds meist nur implizit geführte theoretische Auseinandersetzung mit diesem Traumtyp). Das Projekt wird daher auch einzelne Kapitel aus der Kultur- und Wissensgeschichte des Alptraums beleuchten sowie die poetische Faktor bestimmter historisch prominenter Traumbeispiele analysieren.

Lektüreempfehlung

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Göttingen: Wallstein, 2012.

—. *Immune Erzähler: Flaubert und die Affektpolitik des modernen Romans*.
München: Wilhelm Fink, 2007.

—. *Introducción a la muerte. La poesía neoyorquina de Lorca y el duelo de la lírica moderna*. Kassel: Edition Reichenberger, 2007.

TINA KRETSCHMER

from November 2015 to April 2016

Fellow of the College for Life Sciences (see p. 137)

Ph.D., Psychology

University of Groningen and University Medical Centre Groningen

Born in 1980 in Elsterwerda, Germany

Studied Education, Psychology and Sociology at the Freie Universität Berlin

and Psychology at the University of Sussex

WHY DOES PEER VICTIMIZATION GET UNDER THE SKIN? EXPLORING PHYSIOLOGICAL AND EPIGENETIC PATHWAYS

Experiencing peer victimization in childhood and adolescence can have severe negative consequences for psychological, social and behavioural adjustment later on, but our understanding of the biological mechanisms through which this form of social stress gets under the skin needs to be advanced. For instance, individual differences in physiological stress response have been suggested and cortisol baseline levels and variations over the day seem to show non-normative patterns in peer-victimized adolescents. Importantly, individual differences in physiological responses to stress have been implicated in psychopathology. Moreover, epigenetic changes as a result of peer victimization concern DNA methylation and telomere length, both of which have been linked to psychopathology. Thus, a model in which the associations between peer victimization and psychopathology are explained by physiological and epigenetic changes is plausible. So far, findings on this topic appear nonsystematic, which poses a problem for intervention design. In other words, we can prevent young people from developing psychopathology in response to peer victimization only if we have a detailed understanding of the different mechanisms involved. During my stay at the Wissenschaftskolleg, I intend to summarize and systematize these studies to create a stable foundation for future research. As such, my work in

Berlin will form the groundwork for a grant application to study in depth the biological pathways from peer victimization to psychopathology.

Recommended Reading

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- Kretschmer, Tina, Edward D. Barker, Jan Kornelis Dijkstra, Albertine J. Oldehinkel and René Veenstra (2015). “Multifinality of peer victimization: maladjustment patterns and transitions from early to mid-adolescence.” *European Child and Adolescent Psychiatry*. doi: 10.1007/s00787-014-0667-z.
- Kretschmer, Tina, Jan Kornelis Dijkstra, Johan Ormel, Frank C. Verhulst and René Veenstra (2013). “Dopamine receptor D4 gene moderates the effect of positive and negative peer experiences on later delinquency: The Tracking Adolescents’ Individual Lives Survey study.” *Development and Psychopathology* 25, 4: 1107–1117.

WOLF LEPENIES

Permanent Fellow (em.) des Wissenschaftskollegs
Rektor des Wissenschaftskollegs (1986–2001)
Dr. Dr. h.c. mult., Professor (em.) der Soziologie
Freie Universität Berlin

Geboren 1941 in Deuthen, Allenstein, heute Polen
Studium der Soziologie, Philosophie und Publizistik
in München, Münster und Berlin

DER EUROPÄISCHE HIMMELSRICHTUNGSSTREIT

Ich arbeite an einem buchlangen Essay, in dem der (neu belebte) europäische Ost-West-Konflikt mit dem (sich noch verschärfenden) Nord-Süd-Konflikt in Verbindung gebracht wird. Das Mittelmeer und die auf das Mittelmeer gerichtete Politik Frankreichs, die zeitweise mit der Absicht zur Gründung eines „Lateinischen Reiches“ verbunden war, spielen dabei eine zentrale Rolle.

Lektüreempfehlung

Lepenies, Wolf. *Qu'est-ce qu'un intellectuel européen? Les intellectuels et la politique de l'esprit dans l'histoire européenne*. Paris: Editions du Seuil, 2007.

GERTRUDE LÜBBE-WOLFF

Dr. iur., LL.M. (Harvard), Professor of Public Law
University of Bielefeld
Former Judge of the Federal Constitutional Court

Born in 1953 in Weitensfeld, Austria

Studied Public Law, Legal Philosophy, and Modern Constitutional History
at the Universities of Bielefeld and Freiburg/Br., and at Harvard Law School

CULTURES OF DELIBERATION IN APEX COURTS

Cultures of deliberation in apex courts, national and transnational, differ in many respects. Deliberations are prepared in quite different ways and with different degrees of thoroughness. Different courts take different amounts of time for deliberation among the judges. Some courts deliberate in public while the great majority have confidential deliberations. In many courts, judges discuss in the presence of clerks or registrars; in many others, only the judges are allowed to be present. Some courts deliberate in a very consensus-oriented manner, with elements of compromise in the decision-making process, others don't. Some courts seem more or less split into political (including ethnic or religious) factions, others seem to operate in a less politicized, more integrative manner.

The project will explore such differences in a more systematic way than has been done, so far, with a particular view to identifying aspects of the institutional framework that are likely to help prevent political polarization and to contribute to constructive deliberation. This will include comparing rules and traditions concerning the composition of courts and the recruitment of judges, the role and powers of presidents, the role of non-judicial court personnel, the internal process of decisionmaking, including rules for deliberation and voting, the admissibility of separate judicial opinions etc. Besides analyses of the relevant literature, interviews with judges will help to understand how these and other framework conditions bear upon the functionality of judicial deliberation.

Recommended Reading

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CHARLES MALAMOUD

de mai à juillet 2016

Dr., Directeur d'études

École pratique des hautes études

Né en 1929 à Chisinau, Roumanie

Études de lettres classiques et de russe à l'Université de Paris (Sorbonne) et au Collège de France

TRADUCTION COMMENTÉE DU
TAITTIRIYA-ĀRAṆYAKA, LIVRE I

Le *Taittirīya-Āraṇyaka* est le complément « forestier » (ésotérique) du *Taittirīya-Brāhmaṇa*, un des Traités du sacrifice qui forment la partie en prose du corpus du Veda. Le livre I a pour thème une forme spéciale du rite appelé « empilement du feu » (agnicayana). Dans sa forme normale, ce rite consiste à empiler cinq couches de briques en les disposant de telle sorte que la configuration d'ensemble soit celle d'un oiseau aux ailes déployées; une fois cet « empilement » effectué, on allume sur la surface que forme la couche supérieure un feu dans lequel on verse, en offrande, le jus extrait de la plante soma qui est pour les dieux boisson d'immortalité, la mise en place d'un certain nombre de ces briques s'accompagne de la récitation de formules. Les Traités du sacrifice expliquent le symbolisme inhérent à la relation entre telle brique et telle formule. La particularité du rite enseigné dans le *Taittirīya-Āraṇyaka* est que les briques d'argile cuite y sont remplacées par des poignées d'eau que les officiants puisent dans des récipients pour les verser dans une fosse : à l'assemblage d'éléments solides et discrets se substituent donc des quantités successives de liquide qui, en s'ajoutant les unes aux autres, finissent par former une masse continue sans limites internes. Chacune de ces « briques d'eau » a cependant une individualité, signalée par la formule que l'on prononce au moment où on la verse.

La traduction de ce texte difficile à beaucoup d'égards, avec le commentaire philologique et anthropologique qui viendrait l'éclairer, devrait être un point

d'appui pour une réflexion sur la manière védique de concevoir les procédures mentales à l'œuvre dans l'effectuation des rites.

Lecture recommandée :

Malamoud, Charles. *La danse des pierres : Études sur la scène sacrificielle dans l'Inde ancienne*. Paris : Le Seuil, 2005.

—. *Cuire le monde : rite et pensée dans l'Inde ancienne*. Paris : La Découverte, 1989.

—. *Le svādhyāya, récitation personnelle du Veda*. Paris : de Boccard, 1977 (Publications de l'Institut de civilisation indienne, n° 42).

NAOKO MATSUMOTO

Dr. iur., Professorin für europäische Rechtsgeschichte
Sophia-Universität, Tokio

Geboren 1966 in Saitama, Japan

Studium der Rechtswissenschaft an der Hitotsubashi-Universität, Tokio

KONFLIKTLÖSUNG DURCH SCHLICHTUNG IM VERGLEICH: PREUSSISCHE/DEUTSCHE SCHIEDSMÄNNER UND JAPANISCHES *KANKAI*

Mein Forschungsprojekt besteht darin, deutsche und japanische Schlichtungseinrichtungen und dort verhandelte Fälle im ausgehenden 19. Jahrhundert zu vergleichen. Der Schwerpunkt der Untersuchung liegt auf dem preußischen Schiedsmannswesen und dem japanischen *Kankai* (*conciliation*).

Das Schiedsverfahren gilt mit über 200.000 angenommenen Fällen pro Jahr als die meistbenutzte Schlichtungseinrichtung im Kaiserreich. *Kankai* ist ein Schlichtungsmittel, das im Verlauf der Westernisierung juristischer Organe im Meiji-Japan 1875 eingeführt wurde. Die Zahl der zum *Kankai* gebrachten Fälle stieg in den Folgejahren auf über eine Million pro Jahr, womit es in der japanischen Justizgeschichte der Neuzeit ein außerordentlich viel genutztes Schlichtungsorgan ist. Durch statistische und inhaltliche Auswertung der Akten der dort verhandelten Fälle möchte ich analysieren, wie und in welcher konkreten Situation man diese Institution nutzte.

Der Ausgangspunkt des Projekts ist die Erkenntnis, dass sich in Japan seit der Einführung des europäischen Gerichtssystems bis heute eine im europäischen Vergleich deutlich niedrigere Prozessrate feststellen lässt. Dieser Umstand wurde im Rahmen der Rechtssoziologie und des Vergleichenden Rechts im Zusammenhang mit Fragen von Rechtstransfers vielfach thematisiert.

Ich möchte auch der Frage nachgehen, ob wir Gerichte als das einzige Mittel zur institutionellen Konfliktlösung betrachten sollten. Durch einen Vergleich

der Schlichtungseinrichtungen beider Länder, die sich fast parallel entwickelten, kann die neuere Geschichte der Konfliktlösungen einer Gesellschaft umfassender und vielfältiger dargestellt werden.

Lektüreempfehlung

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—. „Justiznutzung durch Frauen vor dem Gewerbegericht um 1900. Das Beispiel Worms.“ *Zeitschrift für Neuere Rechtsgeschichte* 31 (2009): 30–51.

—. „Transfer europäischer Rechtsnormen nach Japan.“ *EGO. Europäische Geschichte Online*. Mainz: Institut für Europäische Geschichte, 2007.
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CHRISTOPH MENKE
Dr. phil., Professor der Philosophie
Goethe-Universität Frankfurt am Main

Geboren 1958 in Köln
Studium der Philosophie und Germanistik an der Ruprecht-Karls-Universität
Heidelberg und an der Universität Konstanz

ZWEITE NATUR UND BEFREIUNG: GESETZ UND FREIHEIT NACH HEGEL

Das Forschungsvorhaben gilt dem Verhältnis von Gesetz und Freiheit. Wir stehen unter Gesetzen – Gesetzen des Sprechens, Denkens und Handelns –, und wir bestimmen uns in unserem Sprechen, Denken und Handeln selbst. Das sind die beiden Bestimmungen des Subjekts: Ein Subjekt ist durch normative Unterscheidungen konstituiert, und das Subjekt ist die Instanz der Anwendung, Deutung und Hervorbringung normativer Unterscheidungen.

Die moderne Philosophie (seit Rousseau und Kant) hat versucht, diese beiden Seiten im Begriff der Autonomie zusammenzudenken. Das Forschungsvorhaben setzt mit der These ein, dass diese Lösung gescheitert ist. Es stellt daher die Frage, wie der Anspruch des Autonomiebegriffs, Gesetz und Freiheit zusammenzudenken, auf andere Weise eingelöst werden kann. Diese Frage soll auf dem Weg einer kritischen Rekonstruktion von Hegels Philosophie des Geistes beantwortet werden.

Hegels grundlegende Einsicht lautet, dass Gesetz und Freiheit als sozial konstituiert zu verstehen sind. Diese Einsicht ist grundlegend – aber nicht, weil sie schon die Lösung ist, sondern weil sie erlaubt, das gestellte Problem in hinreichender Komplexität zu formulieren. Hegels Geistphilosophie erscheint genau deshalb als der richtige Gegenstand, um die Frage nach dem Verhältnis von Gesetz und Freiheit zu stellen, weil sie mit der These ihrer sozialen Konstitution das Problem nicht gelöst zu haben behauptet, sondern es zum Paradox zuspitzt. Dieses Paradox lautet, dass – einerseits – Gesetz und Freiheit

nur als soziale Begriffe zusammengedacht werden können, dass ihnen dann aber – andererseits – ein irreduzibles Moment zweiter Natur anhaftet, das im Gegensatz zu ihrer Normativität und Spontaneität steht. Die Befreiung ist der Prozess, in dem sich dieses Paradox entfaltet.

Lektüreempfehlung

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Frankfurt/Main: Suhrkamp, 2008.

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675–694.

ANIRUDDHA MITRA

from January to April 2016

Fellow of the College for Life Sciences (see p. 137)

Ph.D., Ecological Sciences

Centre national de la recherche scientifique, Paris

Born in 1980 in Kolkata

Studied Zoology at the University of Calcutta and at the Banaras Hindu

University, Varanasi, and Ecological Sciences at the Indian Institute of Science,
Bangalore

CHEMOSENSATION IN THE LIVING WORLD AND COMPARISON OF BIOLOGICAL AND ARTIFICIAL CHEMOSENSATION

I would like to do an extensive review of chemosensation in the living world for understanding how specialized chemosensory systems like smell and taste evolved from a general chemosensory system. I have not come across any review that considers the evolution of chemosensation as a whole. This topic is an extension of my present work where I am finding that the boundaries between taste and smell may not be as distinct as commonly believed. My hypothesis is that the need for communication between different unicellular organisms (as is seen in some bacteria and amoebae) followed by inter-cellular communication that arose with the rise of multicellular life set the stage for specialization of chemosensory systems to detect very low levels of chemicals. An important factor is the evolution of terrestrial life. In aquatic organisms, it is not always clear as to whether separate olfactory and gustatory systems exist, and I surmise that the ability to detect very low levels of chemicals became more enhanced with the rise of terrestrial life, leading to specialized olfactory systems tuned to detect airborne chemicals. Another area I want to explore is artificial chemosensation. The information gained about chemosensation in animals can be exploited to make biologically inspired engineering applications. For

example, it has been estimated that 1 mg of the trail pheromone of a species of ant can be used to lead a trail of ants around the world. If such level of sophistication can be incorporated into an electronic system, it will be a great advancement for artificial chemosensors. Hence I want to spend some time in comparing the mechanisms of biological chemosensation with the methods that are being tried out to build artificial chemosensors. This will help me to develop ideas about exploring new ways of proceeding with this line of work in the field of biomimetics and bio-inspired engineering.

Recommended Reading

- French, A. S., M.-J. Sellier, M. Ali Agha, A. Guigue, M.-A. Chabaud, P. D. Reeb, A. Mitra, Y. Grau, L. Soustelle, and F. Marion-Poll (2015). "Dual mechanism for bitter avoidance in *Drosophila*." *The Journal of Neuroscience* 35: 3990–4004.
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CHRISTOPH MÖLLERS

Permanent Fellow des Wissenschaftskollegs

Professor für Öffentliches Recht und Rechtsphilosophie an der Humboldt-Universität zu Berlin

Geboren 1969 in Bochum

Studium der Rechtswissenschaft und Komparatistik in Tübingen, München und Chicago

1. HUBERS LETZTE FUSSNOTE

2. LAW'S LEGITIMACY

Ad 1. In der letzten Fußnote der letzten Seite des letzten Dokumentenbandes seiner *Deutschen Verfassungsgeschichte* behauptet der deutsche Verfassungshistoriker Ernst-Rudolf Huber, dass die dritte (und letzte) Verlängerung des Ermächtigungsgesetzes durch einen „Führererlass“ Adolf Hitlers im Jahre 1944 auch „nach damaligem Rechtsverständnis rechtswidrig“ gewesen sei. An dieser eigenartigen Feststellung lässt sich vieles aufschlüsseln: die Vorstellung eines vormaligen Nazi-Juristen, sich durch Geschichtsschreibung rehabilitieren zu können, und ihr Scheitern am eigenen Historismus ebenso wie der idiosynkratische Umgang der nationalsozialistischen Rechtsordnung mit der Form des Parlamentsgesetzes sowie schließlich die Frage, worin genau wir heute das normative Problem einer Ermächtigung der Regierung durch ein Parlament sehen sollten.

Ad 2. Why do we make use of law? There are two basic kinds of answers to this question: we do it because law has an inherent value or we do it as a means to an end. Both answers have a point, and both answers miss something. My own answer is based on two observations: First, we never treat a legal order as being legitimate as such, but accept its justification only on other grounds, be it the political legitimacy of a parliament or the moral claim of a specific rule. Second,

otherwise quite different legal institutions, like independent courts, rights or sanctions, all resist any direct connection between means and ends. They function as a kind of institutional buffer between the aim of a norm and its execution. These two features, dependent justification and buffered execution, have to be studied in order to understand law's legitimacy.

Lektüreempfehlung

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Huber, Ernst-Rudolf. *Deutsche Verfassungsgeschichte seit 1789*. 8 Bde., Stuttgart: Kohlhammer, 1957–1991.

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PHILIPPE MONGIN

Dr., Directeur de recherche au Centre national de la recherche scientifique,
Paris, et Professeur à l'École des hautes études commerciales, Jouy-en-Josas

Né en 1950 à Marseille

Études de philosophie à l'École normale supérieure et de sciences économiques à
l'Université de Cambridge et à l'École des hautes études en sciences sociales,
Paris

L'ÉCONOMIE THÉORIQUE OU LE SENS COMMUN MAGNIFIÉ

L'économie en tant que discipline (« économie politique », « science économique », *political economy*, *economics*, *Volkswirtschaftslehre*, *Wirtschaftswissenschaft*) a fait l'objet d'abondantes études critiques, relevant pour partie d'elle-même, pour partie des autres sciences sociales et pour partie de l'histoire et de la philosophie des sciences. Le projet reprend, mais réoriente cette tradition de questionnement. Il fait de *l'élaboration théorique* un trait différenciant de la discipline à l'intérieur des sciences sociales, ce qui suppose au préalable d'avoir construit une notion philosophique de théorie qui puisse s'appliquer comparativement. En accord avec cette option, le projet se fixe sur l'économie néo-classique dans sa phase de maturité, donc au-delà de ses débuts chez Walras, Marshall et Pareto, celle, plus précisément, qu'illustrent les traités de Hicks (1939), de Samuelson (1947) et, aujourd'hui, de Mas-Colell, Whinston et Green (1995). Il y rattache l'économie de l'information, qui est toujours en développement, certaines parties de la macro-économie contemporaine, et tout ce qui, dans la théorie de la décision et des jeux, est venu enrichir les conceptions néo-classiques de l'agent rationnel et de l'équilibre de marché.

Le projet tend vers plusieurs thèses dont il s'agira d'éprouver la solidité au cours de la recherche. En premier lieu, la théorisation économique procède contradictoirement à l'égard du sens commun, d'une part, en y enracinant ses concepts techniques, d'autre part, en rompant avec lui, chaque fois que les

exigences théoriques, et en particulier celles de la formalisation mathématique, prennent le dessus. Il en résulte une dialectique dont il faudra suivre le mouvement sur des exemples pris dans le corpus. En second lieu, et de façon cohérente avec son origine, la théorisation économique recourt massivement à des concepts évaluatifs, ceux de l'agent rationnel et de l'équilibre de marché tombant sous ce chef. En troisième lieu, malgré le pessimisme affiché par la philosophie à l'égard de la psychologie du sens commun (*folk psychology*), supposée inaméliorable, la théorisation économique manifesterait qu'il est possible de progresser par rapport à sa base triviale. En quatrième lieu, c'est par l'ensemble de ces traits, et non par une pertinence empirique qu'elle n'a malheureusement pas, que l'on peut expliquer le succès mondain de la discipline, et la singularité persistante qui conduit les gouvernants d'États et d'entreprises à choisir des économistes comme conseillers du prince.

Lecture recommandée

Mongin, Philippe. « Value Judgments and Value Neutrality in Economics. »
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FRANCO MORETTI

Permanent Fellow of the Wissenschaftskolleg
Professor of English and Comparative Literature
Stanford University

Born in 1950 in Sondrio, Italy
Studied Foreign Literatures at the University of Rome

STUDYING LITERATURE IN THE LAB: AN INTERIM ASSESSMENT

Five years ago, the Stanford Literary Lab was founded with the explicit aim of importing into the study of literature some of the procedures followed by the natural sciences: hypotheses testing, quantification of results, distinguishing between findings and explanations, ongoing collective discussions, and more. Now the time has come to look at the results of our research so far and to draw some initial conclusions.

In 2015–16, I (along with various Lab teams) will be completing four to five projects that have been in progress for the past couple of years; alongside this empirical work, I will also attempt a conceptual clarification of some general issues we have encountered: from the role of abstraction in literary study to the hermeneutic asymmetry between corpus and text; from the relationship between quantitative and qualitative evidence to the perplexing gap that computational methods seem to have opened between cultural and social history.

Recommended Reading

Moretti, Franco. *Distant Reading*. London: Verso, 2013.

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—. “Bankspeak: The Language of World Bank Reports, 1946–2012.” *Literary Lab*. Pamphlet 9, March 2015 (co-authored with Dominique Pestre).

DANIEL ROBERT COLACO OSORIO

Ph.D., Professor of Neuroscience

University of Sussex

Born in 1959 in London

Studied Natural Sciences at the University of Cambridge and Neurobiology at the Australian National University

COLOUR VISION AND COLOUR COMMUNICATION IN WATER

Focus Group *Colouration in Animals* (see p. 134)

Colour signalling is important to aquatic animals. We know this from the brilliant colours of many fish and invertebrates, from the fact that they evolved multiple spectral photoreceptors, allowing excellent colour vision, and from behavioural studies. But there is a paradox: on land, colour vision is important because colour (i.e. reflectance spectra) is a reliable signal for recognizing objects: when we look at an object it is relatively easy to identify the colour. In water, colour is much less robust, because water is a spectrally selective filter: pure water is blue, while dissolved organic matter colour water green or red. Consequently, viewing conditions, such as depth and distance, strongly alter colour, as is obvious in colour photographs taken in water. There are likely to be profound consequences both for the mechanisms of colour vision and for the operation of colour signals in water. I will use theoretical models of colour vision and colour constancy and empirical data to make predictions about how colour signals and colour vision should have evolved for communication in water and about the likely effects of failures of colour constancy.

Recommended Reading

Osorio, D. and A. Kelber (2010). "From spectral information to animal colour vision: experiments and concepts." *Proceedings of the Royal Society B: Biological Sciences* 277: 1617–1625.

Osorio, D., R. J. Baddeley, and C. D. Jones (2007). "Generalization of color by chickens: experimental observations and a Bayesian model." *American Naturalist* 169, S27–S41.

RICHARD O. PRUM

from September to December 2015

Ph.D., Professor of Ornithology

Yale University

Born in 1961 in New York

Studied Biology at Harvard University and Biological Sciences at the University of Michigan, Ann Arbor

AESTHETIC COEVOLUTION IN BIRDS

Focus Group *Colouration in Animals* (see p. 134)

I am interested in the cascade of mechanisms that has given rise to the diversity of avian visual communication signals. These mechanisms include physical, chemical, physiological, cognitive, developmental, and evolutionary processes. These interests have led to previous research on 1) the nanostructure, physics, and development of structural coloration in bird feathers and skin, 2) the chemistry and physiology of avian plumage pigments, 3) the development and taphonomy of melanin pigments and melanosomes in feathers, 4) quantitative, tetrahedral color space models of avian visual perception, 5) phylogenetic analyses of the evolution of color space occupancy by various clades of birds, and 6) theory of aesthetic evolution by sexual selection. The long-term goal is an integrated understanding of the origin and maintenance of color signal diversity in birds.

I am particularly intrigued by evolution as an aesthetic process, especially through mate choice. I have been critical of the assumption that mate choice is an adaptive process that provides honest indicators of good genes and direct benefits. I have advocated a return to a genuinely Darwinian, fully aesthetic concept of mate choice and the use of arbitrary mate choice mechanisms as the null model of evolution by mate choice.

Aesthetic evolution focuses on the fact that secondary sexual traits – including color signals – function through the subjective experiences of the observers – the

animals themselves. Subjective experience is the unique, internal quality – the “what-it-is-like” – of observing, cognitively evaluating, and making a choice. Mate choice is appropriately a science of subjective experience. The lack of a consideration of subjective experience has stunted the appreciation of mate choice as an aesthetic process and limited our capacity to understand the natural world.

My interests in aesthetic evolution have also led to new research in aesthetic philosophy at the interface of evolutionary biology and the humanities. I have recently published a paper proposing a coevolutionary aesthetic theory that spans the human and biotic worlds.

Recommended Reading

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ANDA ROTTENBERG

Dr. of Fine Arts, Art History; Curatorial Studies
Curator and Art Critic, Warsaw

Born in 1944 in Novosibirsk

Studied Art History at the University of Warsaw

JUDITH – SALOME – OPHELIA: THE REPRESENTATION OF SOME FEMALE CHARACTERS IN EUROPEAN ART IN THE LIGHT OF CONTEMPORARY GENDER STUDIES

Besides the Virgin Mary and a few popular holy saints (like Anna, Barbara, Agnes, Maria Magdalena) who were depicted in a nice and peaceful manner, several other women characters drew special attention from artists for many centuries. They were represented in art from the Renaissance period to the 20th century in a great variety of poses and situations. The artists chose biblical heroines like Judith or Yael, real historical figures like Lucretia and Cleopatra or the personalities popular in the Christian tradition like Salome or St. Theresa d'Avila to become subjects of their art, mainly paintings and sculptures. The 19th- and 20th-century artists extended their interest to cover the only female character that was not derived from the religious Christian tradition, but from drama. Their heroine became Shakespeare's Ophelia, the victimized fiancée of Hamlet.

In the course of five centuries, the representation of these characters differed not only in accordance with the changes of the consequent historical styles and particular schools, but also due to the different interpretation of the same tale drawn from the current philosophical and theological flows and possibly to political needs in the given period and place.

My interest is to trace these causalities in the light of contemporary gender studies.

Recommended Reading

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—. “Sztukaw Polsce 1945–2005” [Art in Poland 1945–2005]. Warsaw: Wydawn. Piotra Marciszuka “Stentor”, 2007.

ALEXANDRE ROULIN
from September to December 2015
Ph.D., Professor of Biology
Université de Lausanne

Born in 1968 in Payerne, Switzerland
Studied Evolutionary Biology at the University of Bern

THE SIGNALLING VALUE OF COLOURATION: A ROLE FOR PLEIOTROPY

Focus Group *Colouration in Animals* (see p. 134)

Establishing the links between phenotype and genotype is key to resolving questions about the evolution, maintenance and adaptive function of phenotypic variation. This is particularly interesting when a phenotype is positively selected in one sex but negatively in the other sex (sexually antagonistic selection). Identifying the genes responsible for variation in phenotypes selected in opposite directions in the two sexes is particularly interesting because these genes may have beneficial physiological effects in one sex but detrimental ones in the other sex. Using the cosmopolitan barn owl, I tackle the genetic basis of sexually antagonistic selection exerted on a melanin-based plumage trait. Because the melanocortin system is involved in the expression of melanin pigments and pleiotropically regulates a large number of physiological and behavioural traits, I look for polymorphisms in this system and measure the expression levels of these genes in relation to melanin-based colouration and their associated traits. This study is relevant from an evolutionary and biomedical point of view because the melanocortin system is highly conserved across vertebrates and implicated in many physiological functions and diseases.

Recommended Reading

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HANNAH SCHMIDT-GLENEWINKEL

from September 2015 to March 2016

Fellow of the College for Life Sciences (see p. 137)

Dr. rer. nat., Biomathematics

Weizmann Institute of Science, Rehovot

Born in 1980 in Frankfurt/Main

Studied Biomathematics and Computer Science at the Ernst-Moritz-Arndt-Universität Greifswald, the Rockefeller University, New York, the Ruprecht-Karls-Universität Heidelberg, and the Weizmann Institute, Rehovot

WHERE IS THE JOURNEY OF MATHEMATICAL MODELING IN MOLECULAR BIOLOGY HEADED?

For several years, we have been able to observe the trend that research in molecular biology is aiming to integrate mathematics. What is the reason for this development and how does it proceed? At first glance, the two disciplines do not seem to match.

The trend has two reasons. First, because of the technical advances of the last decades, the amount of raw data generated has increased enormously. Mathematicians, usually in their profession as statisticians or computer scientists, are expected to help store, manage, and analyze the data. This sort of application of mathematics in biology is nothing new: it is statistical data analysis as applied in any science that generates data.

There is, however, a second type of development in which mathematics is being integrated as a tool in molecular biology. This is historically new, and it is this aspect of mathematical modeling in biology that I want to investigate during my time in Berlin.

We have reached a phase in which the qualitative description of all cell components is largely complete. This means that all cellular structures have been discovered and described in their composition. While in former times we searched for “the secret of life” in the form of the identity of a particular mole-

cule (e.g. DNA), the question has now shifted to the quantitative interaction of the various cell components. This means that we are asking about the *dynamics* of processes and the functionality that arises from the quantitative interaction of the components, not from the mere existence of the components themselves.

During my time at the Wissenschaftskolleg, I want to investigate the current state of this synthesis of mathematics and biology and ask how the entry of mathematical thinking has shaped the way we look for explanations in molecular biology.

Recommended Reading

Schmidt-Glenewinkel, H. and N. Barkai (2014). “Loss of growth homeostasis by genetic decoupling of cell division from biomass growth: implication for size control mechanisms.” *Mol Syst Biol* 10: 769.

Schmidt-Glenewinkel, H., E. Reinz, S. Bulashevskaya, J. Beaudouin, S. Legewie, A. Alonso, and R. Eils (2012). “Multiparametric image analysis reveals role of Caveolin1 in endosomal progression rather than internalization of EGFR.” *FEBS Lett.* 586, 8: 1179–1189.

Keller, Evelyn Fox (2003). *Making Sense of Life: Explaining Biological Development with Models, Metaphors and Machines*. Cambridge, Mass.: Harvard University Press.

Edelstein-Keshet, Leah (2005). *Mathematical Models in Biology*. Philadelphia, Pa.: SIAM: Society for Industrial and Applied Mathematics.

JONATHAN SHEEHAN
EURIAS Fellow (see p. 136)
Ph.D., Professor of History
University of California, Berkeley

Born in 1969 in Toronto
Studied History of Science at Brown University and History at the University of
California, Berkeley

THE HETERODOXY OF CHRISTIANITY: SACRIFICE, THEOLOGY, AND SACRED HISTORY

Christianity has never been as Christian as all that, and there is no clearer testimony to this than sacrifice. From the beginning of the tradition, sacrifice has been Christianity's stumbling block, a theological center to the enterprise, yet also deeply inimical to it. My project takes up Christian troubles with sacrifice. It argues that these troubles, although ancient in their origins, came to a head in the early modern period, when Catholics and Protestants fought viciously over Christian theology and worship. From the Eucharist to the Mass to atonement to the cultic community of martyrs: the entire sacrificial apparatus of the Church, past and present, was subject to scathing examination. These controversies inserted a wedge between "Christianity as it was" and "Christianity as it should be", a wedge between past and future that opened up spaces for new forms of sacred and secular knowledge. As the heat of religious war cooled, the polemic theology of the sixteenth and seventeenth centuries was disaggregated, and out of its pieces a new organization of knowledge was created, built on a distinction between a properly sacred discipline (theology) and the properly secular ones. The project, in short, offers both a new history of early modern Christianity and a new genealogy of the modern human sciences.

Recommended Reading

Sheehan, Jonathan (with Dror Wahrman). *Invisible Hands: Self-Organization and the Eighteenth Century*. Chicago: The University of Chicago Press, 2015.

—. “Sacred and Profane: Idolatry, Antiquarianism, and the Polemics of Distinction in the Seventeenth Century.” *Past and Present* 193 (August 2006): 37–66.

—. *The Enlightenment Bible: Translation, Scholarship, Culture*. Princeton: Princeton University Press, 2005.

THOMAS N. SHERRATT

from April to June 2016

Ph.D., Professor of Evolutionary Biology

Carleton University, Ottawa

Born in 1963 in Burton-on-Trent, United Kingdom

Studied Ecological Science at Edinburgh University and Evolutionary Ecology

at Dundee University, Scotland

THE COGNITIVE BASIS OF ANTI-PREDATOR DEFENCE

Focus Group *Colouration in Animals* (see p. 134)

Objectives

Over the course of my three-month research fellowship, I propose to develop and explore a series of mathematical models to help understand why species evolve the anti-predator traits that they do. My approach will seek to understand decision making by predators from an adaptive perspective, and then elucidate its consequences for the evolution of prey defence. In so doing, I hope to provide some of the first evolutionary explanations for two well-known properties of predator cognition, namely overshadowing and innate aversion.

Methods

It has been widely observed that predators place far greater emphasis on some aspects of a prey's phenotype than others when making discriminative decisions, a phenomenon known as "overshadowing". Likewise, work in my laboratory has recently shown that birds show innate aversion to eye-like markings ("eye-spots") on large caterpillars, but not on small caterpillars. First, I will attempt to elucidate the conditions under which both overshadowing and context-specific innate aversions will evolve by modelling predator behaviour from first principles. Overshadowing for example might be understood as a consequence of an adaptive model selection procedure in which simpler statistical models of the

world are preferred by predators over more complex ones. Likewise, innate aversions can be interpreted as a consequence of selection for appropriate Bayesian priors. Second, having developed a more complete understanding of when and why these key behaviours might evolve, I will attempt to explore the implications of the behaviours for selection on prey phenotypes, concentrating on understanding why certain species have evolved defensive traits (such as imperfect mimicry or eyespots), but not others.

Significance

Predation is one of the most universal and important agents of selection. This research project will attempt to understand predator behaviour from an adaptive perspective and evaluate a series of “big picture” hypotheses as to why organisms evolve the anti-predator colouration traits that they do.

Recommended Reading

Sherratt T. N. and D. M. Wilkinson (2009). *Big Questions in Ecology and Evolution*. Oxford and New York: Oxford University Press.

Penney, H. D., C. Hassall, J. H. Skevington, K. R. Abbott, and T. N. Sherratt (2012). “A comparative analysis of the evolution of imperfect mimicry.” *Nature* 483: 461–464.

Sherratt T. N. (2011). “The optimal sampling strategy for unfamiliar prey.” *Evolution* 65: 2014–2025.

MARIA SHKLYARUK
EURIAS Fellow (see p. 136)
Dr., Law and Economics
European University at St. Petersburg

Born in 1980 in St. Petersburg
Studied Law at St. Petersburg State University and at the University of
Hamburg

THE ORGANIZATIONAL CONTEXT OF CRIMINAL PROCEDURE IN GERMANY AND RUSSIA: FROM THE CRIME TO THE SENTENCE

Focus Group *Russia: The Rule of Law in Question* (see p. 130)

Eugen Ehrlich has described the difference between what the law prescribes and the empirical reality of law enforcement. Since then, the mechanism of transforming laws into everyday practices has been studied in detail, but many questions still remain. The primary research question of the project lies between law and sociology: how do the provisions of laws that regulate key moments of criminal prosecution transform under the influence of the organizational structures of criminal justice (from police to courts) and how do they reflect interactions between criminal procedure participants?

The “criminal case” is constructed from a chain of actors’ actions in relation to the supposed crime from the moment the information about the crime appears on the radar of the police to the moment the court delivers a verdict. The global academic trend is to investigate the problem of prosecutorial discretion, i.e., the transfer of the primary locus of decision-making from the litigation to the pre-litigation stage. The aim of the project is to determine the key factors responsible for significant differences in the process of filtering criminal allegations and suspects, i.e., which cases to take to court and why, in the otherwise similar legal systems of Russia and Germany.

In order to assess the role and relative contributions of filters envisaged by formal (law) and informal factors (interaction with existing system), I will use the analysis of publications/reports on the work of police and prosecutors in Germany in combination with field work, e.g. nonparticipant observation of the work of German courts. I will describe the “criminal case trajectory” in Germany’s law and everyday practices of criminal justice by using traditional comparative-legal methods, as well as sociological methods (“thick description” and sociological reconstruction created on the basis of nonparticipant observation).

Recommended Reading

Shklyaruk, Maria and Dmitriy Skougarevskiy. *Crime Statistics: How It Is Constructed, Tampered with, and Could be Reformed*. Moscow: Norma, 2015.

www.enforce.spb.ru/images/Staff/Crimestat_report_2015_IRL_KGI.pdf

—. *Traektoriya ugovnogo dela v statistike: na primere obobshchennyh dannyh pravoohranitel'nyh organov* [The processing of criminal cases in the official statistics published by the Russian law enforcement agencies.], edited by K. Titaev and E. Paneakh. St. Petersburg: Institut problem pravoprimeneniya, 2014. (Policy memo on the problems of law enforcement).

www.enforce.spb.ru/products/papers/6265-traektoriya-ugolovno-dela-v-ofitsialnoj-statistike

Volkov, V., I. Grigor'ev, A. Dmitrieva, E. Moiseeva, E. Paneikh, M. Pozdniakov, K. Titaev, I. Chetverikova, and M. Shklyaruk. “Concept for Comprehensive Organizational and Managerial Reform of the Law Enforcement Agencies of the RF.” *Statutes and Decisions* 48, 5 (2013): 5–91.
www.metapress.com/content/q2j171165191

LUC STEELS

Ph.D., ICREA Research Professor of Computer Science
Universitat Pompeu Fabra Barcelona

Born in 1952 in Belsele, Belgium

Studied Linguistics (German philology) at the University of Antwerp and
Computer Science at the Massachusetts Institute of Technology

SOLVING THE RIDDLE OF LANGUAGE EVOLUTION

Focus Group *Biological, Cultural and Social Origins of Language* (see p. 127)

My Wiko project attempts to synthesize my work on language evolution over the past decade and to capture it in a monograph. I will focus specifically on the cultural evolution of complex grammar. The key idea is to generalize the well-known Darwinian framework, which has been enormously productive in evolutionary biology, and apply it to cultural language evolution. This framework suggests that we need to identify the units of evolution and find analogues for heredity, variability and selection. Once these ingredients are in place, a spiraling, ever-expanding complex adaptive system gets established. What are these analogues?

Many linguists have argued that the fundamental unit of language is the construction, a pairing of meaning and form through the intermediary of syntactic and semantic categorisations. I therefore propose that this is the unit of linguistic evolution. Heredity means then that constructions must be preserved and diffuse. At the individual level, constructions are preserved because speakers and hearers store them in their private construction memories. At the group level, constructions propagate through social learning. Variation is unavoidable, partly because learning grammatical constructions is not a copying process (rather, the learner has to formulate hypotheses based on partial evidence) and partly because speakers are creative: they regularly need to stretch existing constructions to satisfy new purposes or coerce words into novel usages. Constructions

compete. The main selection criteria are communicative success and reduction of cognitive effort.

With my group, I have already been carrying out plenty of simulation experiments to model language emergence and cultural evolution within this framework, focusing on the origins of colour terms, action words, spatial language, grammatical agreement, phrase structure grammars and so on. It will be an enormous challenge to capture all this work in a single monograph, but the time is ripe for it and Wiko is the unique place that can make this project a reality.

Recommended Reading

Steels, Luc, ed. (2012). *Experiments in Cultural Language Evolution*. John Benjamins, Amsterdam.

Beuls, Katrien and Luc Steels (2013). “Agent-based models of strategies for the emergence and evolution of grammatical agreement.” *PLOS ONE* 8, 3: e58960. doi:10.1371/journal.pone.0058960.

Steels, Luc (2011). “Modelling the cultural evolution of language.” *Physics of Life Reviews* 8, 4: 339–356. www.sciencedirect.com/science/journal/15710645/8.

MICHAEL P. STEINBERG

Ph.D., Barnaby Conrad and Mary Critchfield Keeney Professor of History and Professor of Music and German Studies, Brown University, and Director of the Barenboim-Said Foundation, USA

Born in 1956 in New York

Studied History, European Cultural Studies, and Russian Studies at Princeton University and History at the University of Chicago

THE SCHOOL OF LISTENING: MUSICAL LEGACIES, GLOBAL COMMUNITIES

My project will use the methods and questions of the cultural history of music to examine the predicament of European cultural and intellectual history and historiography in the era of globalization. Both these contexts are concerned with the interrogation of boundaries: the cultural history of music with the boundaries between musical works and their cultural settings, motivations, and meanings; and the broader historiographic context with the boundaries of European subjectivities in a post-colonial age when cultural flows and disseminations may or may not be liberated from traditional patterns of domination and ownership (actual as well as symbolic). The project also has an engaged and practical dimension, accompanying ongoing involvements of mine in Berlin, Nazareth, Ramallah, and Cape Town (as well as in my capacity as Director of the Cogut Center for the Humanities at Brown University) that combine musical education with “education through music”, in other words with the building of new modes of civil society and citizenship through collaborative musical work. Listening, understood as a practice and an ethic and not as a metaphor, combines the aesthetic and political spheres at play in these endeavors. Finally, I am keen to use the fellowship time to read in two related fields in which I remain a beginner: neuroscience and attachment theory.

Recommended Reading

Steinberg, Michael P. *Judaism Musical and Unmusical*. Chicago: University of Chicago Press, 2007.

—. *Listening to Reason: Culture, Subjectivity, and 19th Century Music*. Princeton: Princeton University Press, 2004.

—. "Music and Melancholy." *Critical Inquiry* 40, 2 (2014).

BARBARA STOLLBERG-RILINGER

Dr. phil., Professorin der Geschichte

Westfälische Wilhelms-Universität Münster

Geboren 1955 in Bergisch Gladbach

Studium der Geschichte, Germanistik und Kunstgeschichte an der Universität zu Köln

MARIA THERESIA ODER DIE GLEICHZEITIGKEIT DES UNGLEICHZEITIGEN. EINE BIOGRAFIE

Es ist seit langem still geworden um Maria Theresia, ehemals die Verkörperung des österreichischen Nationalmythos schlechthin. Sieht man genauer hin, so ist das populäre Bild der Kaiserin-Königin heute immer noch in hohem Maße von der Historiografie des 19. und frühen 20. Jahrhunderts geprägt, während die jüngere Historikergeneration einen auffälligen Bogen um sie macht. Es scheint daher an der Zeit, die Gestalt Maria Theresia zu historisieren und ihren Mythos zu entzaubern. Maria Theresia war nicht die treu sorgende, liebende Landesmutter, als die sie gemeinhin dargestellt wird, und ihr Appartement in der Hofburg war kein gemütliches bürgerliches Wohnzimmer. Sie war auch keine emanzipierte Frau *avant la lettre* und nicht die große weibliche Ausnahme in einer allein von Männern betriebenen Politik. Die geplante Biografie will nicht nur diese Meistererzählung dekonstruieren, sondern auch eine andere Geschichte Maria Theresias entwerfen. Das kann allerdings nicht mehr wie im 19. Jahrhundert aus der Perspektive eines allwissenden auktorialen Erzählers geschehen. Es sollen vielmehr eine Vielzahl sehr unterschiedlicher zeitgenössischer Perspektiven miteinander konfrontiert werden: vom aufgeklärten Leibarzt zum kameralistischen Projektmacher, von der durchreisenden Engländerin zum alt-aristokratischen Obersthofmarschall, vom Prager Juden bis zum Tiroler Bauernsohn. Dazu gehören selbstverständlich auch die Stimmen Maria Theresias selbst und ihrer Familienmitglieder. Am Ende soll ein plastischer

Eindruck von der spezifischen „Gleichzeitigkeit des Ungleichzeitigen“ entstehen, die das 18. Jahrhundert kennzeichnet.

Lektüreempfehlung

Stollberg-Rilinger, Barbara. *Des Kaisers alte Kleider: Verfassungsgeschichte und Symbolsprache des Alten Reiches*. München: Beck, 2013. (Englische Übersetzung erscheint im Herbst 2015.)

—. *Rituale*. Frankfurt/Main: Campus, 2013.

—. „Die Frühe Neuzeit – eine Epoche der Formalisierung?“ In *Die Frühe Neuzeit: Revisionen einer Epoche*, herausgegeben von Andreas Höfele, Jan-Dirk Müller und Wulf Österreicher, 3–27. Berlin und Boston: de Gruyter, 2013.

DEVI STUART-FOX

from January to May 2016

Ph.D., Senior Lecturer in Ecology and Evolution

The University of Melbourne

Born in 1976 in Brisbane, Australia

Studied Biology and Philosophy at the University of Queensland

A PREDICTIVE FRAMEWORK FOR UNDERSTANDING THE EVOLUTION OF COLOUR AND COLOUR CHANGE IN ANIMALS

Focus Group *Colouration in Animals* (see p. 134)

Animal colour patterns and ornaments are one of the most striking manifestations of nature's extraordinary diversity. Explaining this diversity has been a fundamental motivation for generations of biologists, but there is still much we do not know. In particular, we still lack a general predictive framework for understanding the diversity and distribution of animal colouration. The proposed study will fine tune and test theoretical predictions regarding the prevalence of different cellular mechanisms (e.g. different pigment types, feather and scale nanostructures) generating colours used for sexual ornamentation. Predictions will be tested using meta-analyses of large datasets of colour patterns in different animal groups (compiled in collaboration with other members of the Wiko Focus Group). Examples of these predictions based on current theory include (but are not limited to):

1. colours generated by "physiologically costly" carotenoid pigments are more likely to be used as sexual signals than similar colours produced by different classes of pigment;
2. melanin-based signals in vertebrates are more prevalent in species with strong social dominance hierarchies;

3. the intensity of structural coloration is correlated with indicators of physiological stress.

The results of this study will allow us to understand how the diverse cellular mechanisms generating colourful skin, feathers and scales can explain general patterns in the evolution of animal ornaments.

Recommended Reading

Hugall, A. F. and D. Stuart-Fox (2012). “Accelerated speciation in colour-polymorphic birds.” *Nature* 485: 631–634.

Stuart-Fox, D. and A. Moussalli (2008). “Selection for conspicuous social signals drives the evolution of chameleon colour change.” *PLoS Biology* 6, 1: e25–e32.

Stuart-Fox, D. M. and T. J. Ord (2004). “Sexual selection, natural selection and the evolution of dimorphic coloration and ornamentation in agamid lizards.” *Proceedings of the Royal Society of London B* 271: 2249–2255.

FELICITA TRAMONTANA

EURIAS Fellow (see p. 136)

Dr., Adjunct Professor of the History of Arab Countries
Università degli Studi di Enna “Kore”, Italy

Born in 1978 in Palermo

Studied Humanities at the University of Pisa and the
University of Teramo

MIGRATION IN THE EARLY MODERN WORLD: THE FRANCISCANS OF THE CUSTODY OF THE HOLY LAND AS A CASE STUDY

My research project sets out to investigate mobility among Middle Eastern parishes and from the Middle East to Europe, in order to propose a revision of current theories on migration in the Euro-Mediterranean region (1500–1800) and to propose a new methodology for the study of mobility in the early modern world.

The early modern world was a world on the move: people moved to escape persecutions, to flee famine, for business, and with a wide range of personal motivations. Short- and long-distance migration was common both in Europe and within the borders of the Ottoman Empire. Furthermore, scholarship has shed light on a constant flow of people moving between the two shores of the Mediterranean. In this research framework, my project aims at a deeper comprehension of the migration processes and at giving new answers to some still unresolved crucial questions on migration in the early modern period: Was migration in the early modern world a network-driven phenomenon? What was the role played by Catholic missionaries in addressing and facilitating short- and long-distance migration in the Mediterranean? What continuities and similarities are there between short- and long-distance migrations?

By analyzing the movements of people who passed by the houses of the Franciscans of the Custody of the Holy Land, I will investigate individuals' and

groups' mobility within the Middle East and toward "Christianity". I am especially interested in contextualizing individual experiences in a wider regional framework, connecting the microlevel (individual: numbers of migrants, life-cycle stages, wealth/gender patterns), the macrolevel (political events, on an imperial and intercontinental scale; economic factors (taxation, trade)), and the mesolevel (networks, communities). In particular, I will use network analysis to examine the data on mobility furnished by the Franciscan documents (parish books, correspondence, chronicles), and I will conceptualize the Franciscans of the Custody of the Holy Land as a migration network.

Recommended Reading

Tramontana, Felicita. *Passages of Faith: Conversion in Palestinian Villages (17th century)*. Wiesbaden: Harrassowitz, 2014.

—. "Protestants' Conversion to Catholicism in the Syro-Palestinian Region. (17th century)." *Zeitschrift für Historische Forschung* 41, 3 (2014): 401–422.

—. "Khubz as Iqtā' in Four Authors from the Ayyubid and Early Mamluk Periods." *The Mamluk Studies Review* 16 (2012): 103–122.

RALPH UBL

Dr. phil., Professor für Neuere Kunstgeschichte
Universität Basel

Geboren 1969 in Wien

Studium der Kunstgeschichte und Philosophie an der Universität Wien

BILD UND ORIENTIERUNG IN DER MODERNE

Wenn von der Orientierung eines Bildes die Rede ist, kann Verschiedenes gemeint sein: seine Platzierung im Raum; seine internen räumlichen Eigenschaften, die unabhängig von seiner Lage ein Oben und ein Unten, eine Vorder- und eine Rückseite erkennen lassen; und nicht zuletzt die doppelte Ausrichtung der dargestellten Objekte, die sowohl aufeinander wie auch auf die Blickachse des Betrachters bezogen sind. Bereits diese ersten Unterscheidungen lassen erahnen, dass die Frage, was es heißt, sich in einem Bild zu orientieren, weitreichende bildtheoretische und -historische Fragen aufwirft, denen sich die kunsthistorische Forschung in jüngster Zeit auch verstärkt zugewandt hat. In meinem Projekt werde ich untersuchen, worin die Bedeutung dieser Frage für die Kunst der Moderne bestand. Dass sie als dringlich angesehen wurde, belegt die von der Romantik bis zur Nachkriegskunst immer wieder aktuelle Auseinandersetzung mit dem menschlichen Körper als Grund der Orientierung. Mein besonderes Interesse gilt in diesem Zusammenhang der Lateralität, insofern sich im Richtungsgegensatz von links und rechts Symmetrien und Differenzen überlagern, die den künstlerischen Arbeitsprozess betreffen: die Inkongruenz der beiden Hände, ihr ungleiches Geschick, ihre verschiedenen Funktionen und Werkzeuge, aber auch die Lateralität des Bildfeldes, wie sie in der Verkehrung von Druckplatte und Abzug, Bildwerk und Spiegelbild auffällig wird.

Lektüreempfehlung

Ubl, Ralph (mit Wolfram Pichler). *Bildtheorie zur Einführung*. Hamburg: Junius, 2014.

—. *Prähistorische Zukunft: Max Ernst und die Ungleichzeitigkeit des Bildes*. München: Fink, 2004. (Englisch: *Prehistoric Future: Max Ernst and the Return of Painting Between the Wars*. Chicago, 2013.)

—. „Eugène Delacroix’s Jewish Wedding and the Medium of Painting.“ In *Judaism and Christian Art: Aesthetic Anxieties from the Catacombs to Colonialism*, herausgegeben von Herbert L. Kessler und David Nirenberg, 359–386. Philadelphia, PA: University of Pennsylvania Press, 2011.

ALEXANDER VERLINSKY

from September 2015 until February 2016

Dr., Professor of Classical Philology

St. Petersburg State University and Bibliotheca Classica Petropolitana (Director)

Born in 1959 in Leningrad

Studied History at the Leningrad Pedagogical Institute (today: The State

Russian Herzen Pedagogical University) and Classical Philology at

St. Petersburg State University

MAGNA MORALIA AS ARISTOTLE'S ETHICS

My short research project (it should be a review of a new book on the subject followed by a paper or two) is the result of my lectures on Aristotle's ethics, in the course of which I suddenly recognised how insufficient the grounds are for denying Aristotle's authorship of one of the three Ethics in Aristotle's Corpus, the *Great Ethics* (*Magna Moralia*). Although its authenticity was defended in the 1920s by Hans von Arnim and then in the bulky and enormously learned commentary written by Franz Dirlmeier, what prevails in scholarship is still the negative and in part even dismissing view of it established by 19th-century scholars and later endorsed by Werner Jaeger and his pupils, who tried to build a line of evolution in Aristotle's ethics (the *Protrepticus* – the *Eudemian Ethics* – the *Nicomachean Ethics*), considering the *Magna Moralia* post-Aristotelian. This evolutionary scheme is certainly wrong, but it is possible to maintain some doctrinal differences between Aristotle's ethical treatises. I believe that *Magna Moralia* should be posited as being among Aristotle's ethical treatises, as the earliest of them, but not as early as most of the supporters of its genuineness thought. I also hope to show that the really existent peculiarities of language and style are compatible with Aristotle's authorship and that they shed light on the origin of the treatise.

Recommended Reading

- Verlinsky, Alexander. “*Philologia inter Disciplinas*: The Department of Classics at St. Petersburg University 1819–1884.” *Hyperboreus* 19 (2013) = A. Verlinsky, ed. *Institutions of Classical Scholarship in the Nineteenth and Twentieth Centuries/Institutionen der Altertumswissenschaft im 19. und 20. Jahrhundert*, 162–202. Sankt Petersburg: Bibliotheca classica petropolitana, 2014.
- . “Theology and Relative Dates of the *Timaeus* and the *Statesman*.” *Hyperboreus* 16/17 (2010/2011) = A. Verlinsky, ed. *Variante Loquella: Alexandro Gavrilov Septuagenario*, 328–345. Sankt Petersburg: Bibliotheca classica petropolitana, 2011.
- . “The Cosmic Cycle in the Statesman Myth. Part I–II.” *Hyperboreus* 14 (2008) [2009]: 57–86; *Hyperboreus* 15 (2009) [2011]: 221–250.

BARBARA VINKEN

Dr. phil., Ph.D., Professorin für Allgemeine und Französische
Literaturwissenschaft
Ludwig-Maximilians-Universität München

Geboren 1960 in Hannover

Studium der Romanistik, Germanistik und Komparatistik in Aix-en-Provence,
Freiburg, Paris, Konstanz und an der Yale University

EUROPÄISCHE LITERATUR IM SCHATTEN DES BÜRGERKRIEGS

Einen Krieg, eine Revolution, einen Aufstand, eine ethische Säuberung, eine bewaffnete Auseinandersetzung als Bürgerkrieg zu bezeichnen, ist keine unschuldige Definition. Es ist eine eminent politische Äußerung. Denn der Bürgerkrieg ist das, was unter keinen Umständen passieren darf. Politik zieht ihre Daseinsberechtigung daraus, ihn um jeden Preis zu vermeiden.

Der Interpretationskonflikt gewinnt geschichtsmächtige Konturen in den römischen Bürgerkriegen: Caesar versucht, den Krieg mit allen Mitteln der Kunst nicht als Krieg gegen Eigenes, sondern als Krieg gegen Fremdes darzustellen. Pompeius selbst wird für ihn zum halben Orientalen, der die Tyrannei anstrebt; seine Armeen bestehen allesamt aus „Fremdvölkern“. Dagegen bilanziert Lucan in seinem *De bello civili* einen heillosen Bürgerkrieg, der das Ende der römischen Republik besiegelt und alles eigene, eigentlich Römische in einer orientalisch gefärbten Tyrannei Caesars auslöschen wird.

Augustinus' *Civitas Dei* bringt eine Wende für die Thematik des Bürgerkrieges, die für die weiteren Jahrhunderte gar nicht zu überschätzen ist. Die Logik des Bürgerkriegs wird zur überhistorischen, universalen Dynamik, die das Verhältnis des Individuums zu sich selbst, zu seinen Nächsten und zur Gesellschaft bestimmt. Brudermord und Bürgerkrieg – das Wüten des Eigenen gegen das Eigene, das Gespaltensein im Selben – wird zur grundlegenden und unhintergehbaren Figur der weltlich verfassten *civitas terrena*.

In der Rezeptionsgeschichte gehen die einen davon aus, dass der Bürgerkrieg verleugnet und verdrängt oder als zurückgelassenes, überwundenes Moment bagatellisiert wird. Ihnen geht es darum, die Unüberwindbarkeit der Bürgerkriegsstruktur als verheerende Wahrheit allen vor Augen zu stellen. Die andern setzen, konstruktiver, auf Strategien der Überwindung dieses Zustandes. Das kann nur durch eine andere Ökonomie, genauer durch eine A-Ökonomie – die des Selbstoppers geschehen, das verschiedene Säkularisierungsstufen durchläuft.

Lektüreempfehlung

Vinken, Barbara. *Angezogen: das Geheimnis der Mode*. Stuttgart: Klett-Cotta, 2013.

—. *Bestien: Kleist und die Deutschen*. Berlin: Merve, 2011.

—. *Flaubert: durchkreuzte Moderne*. Frankfurt/Main: Fischer, 2009.

CONSTANȚA VINTILĂ-GHIȚULESCU

Dr., Histoire sociale

Institut d'histoire « Nicolae Iorga », Bucarest

Née en 1969 à Valea Calugareasca-Prahova

Études d'histoire et civilisation à l'École des hautes études en sciences sociales,
Paris, et de sociologie à l'Université de Bucarest

PENSER LE DROIT, NÉGOCIER LA LOI : SUR
L'AMBIGUÏTÉ JURIDIQUE CHEZ LES ROUMAINS,
XVIII – XIXe SIÈCLES

Groupe de réflexion *Russia: The Rule of Law in Question* (see p. 130)

Les récents évènements politiques de Roumanie ont montré que, au-delà d'un esprit civique élémentaire et faible, la relation des roumains avec le droit est biaisée. Les ambiguïtés, toujours présentes dans les projets législatifs et retenus à travers les codifications, la négociation des normes, l'appétence pour les imitations des législations étrangères, sans passer par une adaptation au contexte typiquement roumain, ont abouti à l'impasse de juin 2012. Cette situation et plusieurs autres, si exposées dans le quotidien, me font penser à d'autres temps, à d'autres « interprétations » et « négociations » de la loi retrouvées dans un passé toujours proche.

Depuis une dizaine d'années, j'ai fouillé les archives judiciaires et criminelles de 1700 jusqu'à 1860. Les résultats de cette recherche ont arrivé à la rédaction de livres et d'études sur la famille, la modernisation, la religion ou sur l'usage du droit de punir. Et ces archives judiciaires parlent sans cesse de ce rapport ambivalent avec la loi, le droit, la justice. J'aimerais avoir le temps d'achever tout ce travail d'archives par une synthèse sur la manière dont les roumains considèrent le droit, sur les multiples interprétations données à la « justice », sur tout le travail imaginé pour contourner la loi. Je suis plutôt intéressée par cette ambiguïté législative qui donne constamment la possibilité d'aller dans toutes les

directions. C'est cela qui me donnerait envie de voir les racines de ce manque de respect envers le droit, envers la loi, envers la justice. C'est pourquoi, je voudrais analyser les modalités de penser le droit et la loi par les roumains à travers les XVIIIe–XIXe siècles, là où se bâtit la première modernité roumaine.

Lecture recommandée

Vintilă-Ghițulescu, Constanța. *Im Schalwar und mit Baschlik. Kirche, Sexualität, Ehe und Scheidung in der Walachei des 18. Jahrhunderts*. Berlin: Frank & Timme, 2013.

- « Judicial archives and the history of the Romanian family: domestic conflict and the Orthodox Church in the eighteenth century. » *The History of the Family* 2 (2013): 261–277.
- « Usage des corps / usage des mots au tribunal. Conflits et réconciliations dans la société roumaine (1750–1830). » *Couples en justice, IVe–XIXe siècle*, édité par Claude Gauvard, 197–213. Paris : Publications de la Sorbonne, 2013.

DANIEL M. WEARY

D.Phil., Professor and NSERC Industrial Research Chair in Animal Welfare
University of British Columbia

Born in 1963 in St. Jerome, Quebec

Studied Biology at McGill University, Montreal, and Zoology at the University
of Oxford

ANIMAL SUFFERING

Focus Group *Pain* (see p. 132)

Animal suffering is a central issue in animal welfare, but little work has examined the basis of suffering in animals. Human patients are more likely to say they are suffering if their condition prevents them from performing activities they consider important, if they experience concurrent negative feelings (including fear, anxiety and depression) and if they perceive a lack of control. I propose applying these criteria to the assessment of suffering in animals.

Reduced performance of motivated behaviours. I will argue that negative affect (such as pain) accompanied by a reduction in behaviours important to the animal increases the risk of suffering. Importance of behaviours to the animals may be assessed using motivational testing and other methods, distinguishing between behaviours that decline as a direct result of the pain (i.e. because performing the behaviour is now painful) and declines resulting from changes in mood, indicative of depression.

Indicators of sadness or depression. I will argue that negative affect (such as pain) accompanied by low mood increases the risk of suffering. People in sad moods rate their probability of success lower than do happy individuals in tasks involving some risk; a series of recent experiments has also shown evidence of such “cognitive bias” in animals, providing a method to ask how the experience of pain contributes to low mood in animals.

Indicators of fear. I will argue that negative affect (such as pain) accompanied by fear increases the risk of suffering. Animals may experience fear associated with poor facilities and handling during painful procedures (e.g. mustering and restraining prior to branding of cattle).

Control. I will argue that negative affect (such as pain) accompanied by lack of control increases the risk of suffering. For example, training animals using positive reinforcement to approach a handler who will take a blood sample will be less likely to result in suffering than if the same blood sample was taken using physical restraint.

This project builds upon my current research on the assessment of pain and other affective states in animals. Over the course of this Fellowship I plan to develop these ideas with others in the *Pain* team and to develop a proposal for empirical research that will test any emerging hypotheses.

Recommended Reading

Daros, R. R., J. H. C. Costa, M. A. G. von Keyserlingk, M. J. Hötzel, and D. M. Weary (2014). "Separation from the dam causes negative judgment bias in dairy calves." *PLOS ONE* 9: e98429.

Gaillard, C., R. K. Meagher, M. A. G. von Keyserlingk, and D. M. Weary (2014). "Social housing improves dairy calves' performance in two cognitive tests." *PLOS ONE* 9: e90205.

Wong, D., M. A. G. von Keyserlingk, J. G. Richards and D. M. Weary (2014). "Conditioned place avoidance of zebrafish (*Danio rerio*) to three chemicals used for euthanasia and anaesthesia." *PLOS ONE* 9: e88030

BÉNÉDICTE ZIMMERMANN

Permanent Fellow of the Wissenschaftskolleg

Dr., Directrice d'Études, École des hautes études en sciences sociales and
Director, Centre Georg Simmel, Paris

Born in 1965 in Mulhouse, France

Studied History and Political Science at the University of Paris and the
Institut d'études politiques de Paris

WHAT KIND OF WORK FOR WHAT KIND OF SOCIETY?

Changes in the sphere of work over the last thirty years may be described as a continuous process of adapting companies and their employees to the quality, productivity and profit demands of the economic and financial markets. Competitiveness in a globalized market has become the major objective of all enterprises concerned with cost-effectiveness; organizational and human flexibility are the means to that end. The consequences in terms of work conditions, of income gap between workers, managers and shareholders, but also in terms of sustainable development – all these matters raise the question as to the meaning of work and its final purpose. Why do we work?

Not everyone attributes the same ends to work. For some it is a means of producing economic value, whereas others see it as a provider of social identity and recognition, while yet others value it as a source of self-expression, creativity and personal fulfillment. These contrasting meanings invite to study people at work not merely as producers of value but as creative and social beings as well.

The goal of this project is to analyze current societal transformations in light of work's plurality of ends. At its epicenter is the question as to the fabric of the collective and the place occupied by work therein. The research design relies on empirical case studies ranging from affirmed places of capitalism, such as multinationals, to alternative anti-establishment forms or organizations such as cooperatives. This multilevel approach gives equal importance to globalized markets, public policy, companies' practices and individual experience. Taking

France and Germany as its entry points, the analysis aims to develop not only a better understanding of the multiple and interrelated processes that converge to reshape the relationship between work, society and democracy but to identify the political challenges arising therefrom.

Recommended Reading

Zimmermann, Bénédicte. *Ce que travailler veut dire. Une sociologie des capacités et des parcours professionnels*. Paris: Economica, 2014 (1st ed. 2011).

—. “Bringing Sen’s Capability Approach to Work and Human Resource Practices.” *International Journal of Manpower*, 34, 4 (2013): 292–304 (with Dilip Subramanian, Joan Miquel Verd and Josiane Vero).

—. “Beyond Comparison: Histoire croisée and the Challenge of Reflexivity.” *History and Theory* 45, 1 (2006): 30–50 (with Michael Werner).

Schwerpunktgruppe *Die Ursprünge von Sprache in Biologie, Kultur und Gesellschaft*

Die Ursprünge und die Evolution von Sprache bleiben eines der schwierigsten ungelösten Rätsel der Wissenschaft. Teils liegt das daran, dass eine Lösung viele verschiedene Perspektiven und die Beteiligung mehrerer Disziplinen erfordert, teils daran, dass Sprache außergewöhnlich komplex ist – sie ist die beachtlichste Leistung, die das Gehirn vollbringt. Die Schwerpunktgruppe geht dieses Problem von verschiedenen Seiten an und versucht folgende Fragen zu beantworten:

1. Biologie: Welche informationsverarbeitenden Bausteine muss das Gehirn für Sprache mobilisieren? Wie funktioniert der Rekrutierungsprozess und wie entfaltet er sich in der Sprache? Welches sind die neurobiologischen und genetischen Fundamente für die Bausteine und den Rekrutierungsprozess? Welche Rolle spielt die Epigenetik in der Sprachevolution möglicherweise?
2. Gesellschaft: Welche ökologischen Bedingungen begründen den Nutzen der menschlichen Sprache? Auf welche Weise treiben kommunikative Bedürfnisse die Bildung von Begriffen, eine gesteigerte Ausdruckskraft und Gesprächskomplexität voran? Welche Rolle spielt Sprache bei der Entstehung von Kooperation und von sozialen Institutionen – und andersherum, wie begünstigt die Entstehung von sozialen Institutionen das Wachstum und die Verbreitung von Sprache?
3. Kultur: Wie können wir die kulturelle Entwicklung von spezifischen begrifflichen und sprachlichen Strukturen erklären, etwa die Phrasenstruktur, die Kasusgrammatik, ein Tempus- und Aspektsystem, die Artikel oder grammatische Kongruenzsysteme etc.? Welche Grammatiktheorien passen am ehesten zu einer evolutionstheoretischen Auffassung von Sprache als einem komplexen adaptiven System? Anhand welcher Strukturen können Sprechende Neuerungen einführen? Warum diversifizieren Sprachen sich und welche Mechanismen sorgen dafür, dass eine Sprache gemeinschaftlich genutzt werden kann?

Die Gruppe verwendet verschiedene Methoden zur Erforschung dieser Fragen:

1. philosophische Diskussionen, um ein besseres begriffliches Fundament zu legen;
2. Experimente der kognitiven Psychologie, um ein besseres Verständnis davon zu gewinnen, wie der Spracherwerb, einschließlich gestischer Symbole, bei Kindern funktioniert;
3. detaillierte, auf Datenkorpora gestützte empirische Analysen von menschlichen Sprachphänomenen;
4. mathematische Modelle der Evolution und der Entwicklung von Modellen der Sprachevolution anhand von Computersimulationen und Roboterexperimenten.

Zur Schwerpunktgruppe gehören Dorit Bar-On, Holger Diessel, Peter Gärdenfors, Susan Goldin-Meadow und Luc Steels (Convener).

Luc Steels

Focus Group *Biological, Cultural and Social Origins of Language*

The origins and evolution of language remain one of the most challenging unsolved puzzles in science, partly because a solution requires many different perspectives and disciplines and partly because language is extraordinarily complex, the most remarkable activity achieved by the human brain. The Wiko Focus Group is tackling this topic from several different angles, trying to answer the following questions:

1. Biological: What kind of information-processing building blocks does the brain need to recruit for language? How does the recruitment process work and unfold in language development? What are the neurobiological and genetic bases for the building blocks and the recruitment process? What is the possible role of epigenetics in language evolution?
2. Social: What are the ecological conditions that justify the utility of human language? How do communicative needs push concept formation, increased expressive power and dialog complexity? What is the role of language in the emergence of cooperation and social institutions and, vice

versa, how does the emergence of social institutions foster the growth and propagation of language?

3. Cultural: How can we explain the cultural evolution of specific conceptual and linguistic structures, such as phrase structure, case grammar, a tense-aspect system, determiners, clause structure, agreement systems etc.? What grammatical frameworks are most compatible with an evolutionary view of language as a complex adaptive system? What are the strategies through which speakers introduce innovation? Why do languages diversify and what mechanisms allow a language to become shared?

The group will use various methodologies to explore these questions:

1. philosophical discussions to establish better conceptual foundations;
2. cognitive psychology experiments to better understand how children acquire language, including gestural symbols;
3. detailed empirical linguistic analyses of human language phenomena based on corpora;
4. mathematical models of evolution and modelling of language evolution using computer simulations and robotic experiments.

The members of the Focus Group are Dorit Bar-On, Holger Diessel, Peter Gärdenfors, Susan Goldin-Meadow, and Luc Steels (convener).

Luc Steels

Schwerpunktgruppe *Russland – Rechtsstaatlichkeit auf dem Prüfstand*

Nach gängiger Vorstellung ist „russisches Recht“ ein Oxymoron. In der Berichterstattung wird über Korruption, Kriminalität und Gesetzlosigkeit geklagt, die im russischen Alltagsleben zuhause seien. Doch in der Russischen Föderation funktioniert das Recht heute sehr wohl. Der Berufsstand der Juristen floriert und die Zahl der Fälle, die vor russischen Gerichten verhandelt werden, ist seit den 1990er-Jahren kontinuierlich gestiegen. Die Gesetzgebung ist ein wesentliches Mittel der Regierung des Landes und wird in der Presse und anderen Medien diskutiert. Kann die verstörende Kluft zwischen der weitverbreiteten Vor-

stellung, dass Russland ein Ort der Gesetzlosigkeit sei, und der gegenwärtigen Realität – nämlich die Rechtstreue im russischen Alltagsleben – von Rechtswissenschaftlerinnen und Rechtswissenschaftlern produktiv thematisiert werden?

Auf Grundlage einer Reihe von Seminaren und Diskussionsrunden untersucht die Schwerpunktgruppe die russische Rechtskultur, indem sie die Charakteristika der Rechtsstaatlichkeit in Russland seit den kaiserlichen Zeiten bis heute herausarbeitet und analysiert. Das Hauptaugenmerk unserer Forschung liegt darauf, wie das Gesetz im Alltag in Aktion tritt – in der gesetzlichen Regelung und Verhandlung von zivilrechtlichen Streitigkeiten und Kleinkriminalität. Die Forscherinnen ziehen sowohl ethnografische als auch Archivquellen heran, um langfristige Muster rechtlichen Handelns in mehreren Regionen und zwischen verschiedenen ethnischen und religiösen Gruppen aufzuspüren. Dabei konzentrieren sie sich auf die entscheidende Rolle des Beamtentums mittlerer Ebene wie auch auf die dichtesten und untersten Schichten des Rechtswegs. Wir hoffen, Annahmen über das Recht aufzudecken, die die Eliten, Beamten und Untertanen gemeinsam haben – oder auch nicht. In diesem Projekt wollen wir auch die Spannung untersuchen, die einerseits zwischen den normalen Verpflichtungen russischer Bürger gegenüber dem vorhandenen Rechtssystem herrscht und andererseits ihrer Meinung, dass es „wirkliches Recht“ in Russland nicht gibt. Unsere Annahme lautet so: Wenn wir die Rolle des Rechts in der politischen Steuerung und im Alltagsleben in Russland verstehen, so lässt dies Schlussfolgerungen auf die anhaltende Transformation staatlicher Macht in der politischen Ordnung und an anderen Stellen im ehemaligen sowjetischen Machtbereich zu.

Diese Versuche, den Entwicklungsverlauf des russischen Rechts zu interpretieren, verbinden das Projekt mit theoretischen Fragen nach der Rechtsstaatlichkeit. Ein Ausgangspunkt für unsere Untersuchungen ist die Erkenntnis, dass das russische Rechtssystem mit anderen Traditionen viel gemeinsam hat, jedoch mit ganz eigenen Strukturen und Grundannahmen operiert. Die doppelte Herausforderung unseres Projekts besteht darin, die Grundeigenschaften des russischen Rechts ans Licht zu bringen und die Kategorie „Rechtsstaatlichkeit“ zu öffnen – für eine pluralistischere Perspektive auf die Rechtssysteme der Welt.

Zur Schwerpunktgruppe gehören Tatiana Borisova, Jane Burbank (Convener), Maria Shklyaruk und Constanța Vintilă-Ghițulescu.

Jane Burbank und Tatiana Borisova

Focus Group *Russia: The Rule of Law in Question*

In popular imagination, Russian law is an oxymoron. Commentators bemoan corruption, criminality, and lawlessness as endemic to Russian life. But in the Russian Federation today, law is very much at work. The legal profession is burgeoning and caseloads of Russian courts have grown yearly since the early 1990s. Lawmaking is a major means of rule and a subject of discussion in the press and other media. Can scholars productively address the troublesome gap between the widespread notion of Russia's lawlessness and the reality of law's abiding presence in Russian life?

Based on a series of workshops and discussions, the Focus Group will examine Russian legal culture, identifying and analyzing salient characteristics of Russian legal rule from imperial times through the present. The emphasis of our research will be on the law in action in the everyday – in the legal regulation and judicial processing of civil contention and small-scale crime. Researchers will use both ethnographic and archival sources to trace long-term patterns of legal activity in multiple regions and among different ethnic and confessional groups, focusing on the critical role of middle-level officialdom as well as on the thickest and lowest layers of legal process. We hope to uncover assumptions about law shared, or not, among elites, officials and subjects. The project will also explore the tension between Russian citizens' ordinary engagements with the extant legal system and their belief that "real law" does not exist in Russia. Our assumption is that understanding the role of law in Russian governance and life has implications for the ongoing transformation of state power in the polity and elsewhere in former Soviet space.

These efforts to interpret the trajectory of Russian law connect the project to theoretical questions about rule of law. A starting point for our study is the recognition that the Russian legal system has many points in common with other traditions, but operates with its own set of structures and assumptions.

The dual challenge of this project is to bring fundamental qualities of Russian law to light and to open the category of “rule of law” toward a more pluralistic vision of legal systems in the world.

The members of the Focus Group are: Tatiana Borisova, Jane Burbank (convener), Maria Shklyaruk, and Constanța Vintilă-Ghițulescu.

Jane Burbank and Tatiana Borisova

Schwerpunktgruppe *Schmerz*

Schmerz ist ein komplexes Phänomen, das wir immer noch nicht vollständig verstehen. Er ist ein Anpassungsprozess, der uns hilft, uns vor Verletzungen zu schützen. Man geht allgemein davon aus, dass der Schmerz beim Menschen eine „unangenehme sensorische und emotionale Erfahrung“ ist, „die mit einer tatsächlichen oder potenziellen Beschädigung eines Körpergewebes einhergeht“. Aber wie steht es um den Schmerz bei Tieren? Während die meisten von uns bereitwillig zugestehen, dass andere Personen Schmerz und das damit verbundene Leid empfinden und erfahren, sprechen einige Menschen Tieren solche Fähigkeiten nur zögerlich zu, insbesondere wenn es um Tiere geht, die uns ganz fremd sind, wie etwa Fische. Teilweise hängt das damit zusammen, dass das Zugeständnis einer Fähigkeit zum Leiden bei Tieren zur Folge hat, dass man sie auch als fühlende Wesen betrachten muss, die sich ihrer Empfindungen bewusst sind – eine Fähigkeit, die sich nur schwerlich stichhaltig beweisen lässt. Wir mögen noch bereit sein, Menschenaffen die Fähigkeit eines Bewusstseins zuzusprechen, vielleicht noch anderen Säugetieren, aber wir fühlen uns unbehaglich, wenn wir in diesem Zusammenhang auch über Amphibien oder Fische nachdenken. Diese Schwerpunktgruppe bringt Forscherinnen und Forscher aus verschiedenen – sowohl naturwissenschaftlichen also auch geisteswissenschaftlichen – Fachrichtungen zusammen, um entscheidende Leerstellen in unserem derzeitigen Verständnis des Tierbewusstseins und der Fähigkeit zur Schmerzempfindung und zum Leiden zu thematisieren.

Zur Schwerpunktgruppe gehören Victoria Braithwaite (Convener), Paula Droege und Daniel M. Weary.

Victoria Braithwaite

Focus Group *Pain*

Pain is a complex phenomenon that continues to elude our full understanding. It is an adaptive process that helps us to protect ourselves from damage. In humans, it is widely accepted that pain represents “an unpleasant sensory and emotional experience, associated with actual or potential tissue damage”. But what about pain in animals? While most of us are willing to accept that another person will feel and experience the hurt and suffering associated with pain, extending such capacities to animals is something that some people are reluctant to do, particularly for animals that seem quite alien to us such as fishes. In part, this is because to agree that animals can suffer means accepting that they are sentient creatures that are consciously aware of their feelings – a capacity that is challenging to demonstrate conclusively. We might accept extending the capacity for consciousness to the great apes, and possibly to other mammals, but it begins to feel awkward as we consider amphibians and fish. This Focus Group brings together researchers from diverse backgrounds spanning both science and the humanities to address key gaps in our current understanding of animal awareness and the capacity for pain and suffering.

The members of the Focus Group are Victoria Braithwaite (convener), Paula Droege, and Daniel M. Weary.

Victoria Braithwaite

Schwerpunktgruppe *Färbung bei Tieren*

Die natürliche Welt ist voller Farben – bei Blumen, Früchten, Blättern, Federn, Schuppen, Haaren und Haut –, doch obwohl die Farben von Pflanzen und Tieren für die Biologinnen und Biologen seit mehr als einem Jahrhundert eine

faszinierende Forschungsaufgabe darstellen, gab es bis vor Kurzem an dieser Schnittstelle von Evolutionstheorie, Verhaltensforschung und visueller Ökologie nur wenig Fortschritte. Jetzt aber erleben wir plötzlich ein explodierendes Interesse an der Frage, warum Lebewesen so vielfältige und außergewöhnliche Färbungen zeigen. Eine Gruppe führender Forscherinnen und Forscher kommt am Wissenschaftskolleg zusammen, um die vorhandenen Informationen zu verdichten, wesentliche Leerstellen in unserem Wissen zu ermitteln und darüber nachzudenken, wie man sie füllen kann; sie führen neue Analysen durch und berichten der deutschen Öffentlichkeit von den spannendsten Aspekten der natürlichen Färbung.

Unsere Gruppe setzt sich überwiegend aus Short-term Fellows aus Europa, Australien und Nordamerika zusammen und besteht aus Verhaltensökologen, Sehphysiologen und Evolutionsbiologen. Sie kennen sich mit den Mechanismen aus, durch die äußere Farben entstehen, und mit den Sehsystemen von Spezies, die diese Farben wahrnehmen. Wir verstehen die funktionale Bedeutung von Farbmustern in der Natur. Um diese verschiedenen Stränge des Wissens zueinander zu bringen, zieht die Gruppe mehrere zusammenhängende Projekte in Erwägung, in denen wir uns mit der äußeren Färbung von Tieren befassen. Hier nun eine Auswahl der Fragestellungen und Themen, an denen die Gruppe arbeiten könnte:

1. Warum gibt es so viele Mechanismen zur Hervorbringung von Farbe in der Natur?
2. Auf welche Weise treiben Unterschiede in der visuellen Farbempfindlichkeit die Färbung von Tieren voran?
3. Durch welche Regeln wird die Konterschattierung bei Land- und Wassertieren gesteuert?
4. Die Zierfärbung bei weiblichen Vögeln
5. Die Evolution verschiedener Geschwindigkeiten der Farbveränderung (ontogenetische, saisonale und plötzliche Farbwechsel)
6. Durch welche ökologischen Faktoren werden Warnfärbungen begünstigt oder zurückgedrängt?
7. Kosmetische Färbungen bei Tieren und Menschen

Die Gruppe verspricht sich für die Arbeit am Wissenschaftskolleg eine intensive Zusammenarbeit: In einem ungezwungenen Kontext genügend Zeit zu haben,

um an gemeinsamen Ideen und Forschungsprojekten zu arbeiten, die unter anderen Umständen niemals entstehen würden. Wir möchten die Chance nutzen, ein sich rasch entwickelndes Feld in der Evolutions- und Verhaltensökologie aufzubauen – mit der Möglichkeit, vergleichende Analysen durchzuführen, zukunftsweisende Überblicksartikel zu schreiben, neue Richtungen auf dem Forschungsfeld einzuschlagen oder sogar ein gemeinsames Buch zum Thema Färbung herauszugeben.

Zur Schwerpunktgruppe gehören Tim Caro (Convener), Innes Cuthill, Daniel Osorio, Richard O. Prum, Alexandre Roulin, Tom Sherratt und Devi Stuart-Fox.

Tim Caro

Focus Group: *Colouration in Animals*

The natural world is full of colour – on flowers, fruits, leaves, feathers, scales, hair and skin – but although the colours of plants and animals have intrigued and challenged biologists for over a century, relatively little progress has been made at this intersection of evolution, behaviour and visual ecology until quite recently. Now, suddenly, we are witnessing an explosion of new interest in trying to explain the reasons organisms show such varied and extraordinary colouration. A group of leading academics are convening at Wiko to solidify existing information, identify major gaps in our knowledge and how to fill them, conduct new analyses and convey the most exciting aspects of natural colouration to the German public.

Our group, principally composed of short-term Fellows from Europe, Australia and North America, are behavioural ecologists, visual physiologists and evolutionary biologists who are experts on the mechanisms by which external colours are produced and the visual systems of species that see these colours; we are people who understand the functional significance of colour patterns in nature. To marry these different strands of knowledge, the group anticipates several interrelated projects that deal with external colouration in animals. Here is just a sample of topics that the group may work on:

1. Why are there so many mechanisms of colour production in nature?
2. How does variation in visual sensitivity drive animal colouration?
3. What rules govern countershading in terrestrial and aquatic animals?
4. Ornamental colouration in female birds.
5. The evolution of different speeds of colour change (ontogenetic, seasonal and rapid).
6. Which ecological factors promote and constrain warning colouration?
7. Cosmetic colouration in animals and humans.

The group hopes for a unique opportunity for lengthy collaboration. At the Wissenschaftskolleg scholars can share ideas in an informal and extended context; they can work together on research projects that would otherwise never emerge. We would like to seize the chance to synthesize a rapidly evolving field within evolutionary and behavioural ecology with possibilities of conducting comparative analyses, writing forward-looking reviews that identify new directions in the field or even co-editing a book on colouration together.

The members of the Focus Group are Tim Caro (convener), Innes Cuthill, Daniel Osorio, Richard O. Prum, Alexandre Roulin, Tom Sherratt, Devi Stuart-Fox.

Tim Caro

EURIAS Fellowship

Als Mitglied des Netzwerkes europäischer Institutes for Advanced Study nimmt das Wissenschaftskolleg am EURIAS-Fellowship-Programm teil. Im Rahmen dieses Programms werden vier zehnmonatige Fellowships durch die Europäische Union co-finanziert.

As a member of the Network of European Institutes for Advanced Study, the Wissenschaftskolleg participates in the EURIAS Fellowship Programme. In the framework of this programme, the European Union is co-financing four 10-month Fellowships.

EURIAS Fellows 2015/16

Leor Halevi	Geschichte	Nashville
Jonathan Sheehan	Geschichte	Berkeley
Maria Shklyaruk	Rechtssoziologie, Ökonomie	St. Petersburg
Felicita Tramontana	Geschichte	Palermo

COLLEGE FOR LIFE SCIENCES

Mit dem *College for Life Sciences* will das Wissenschaftskolleg jungen Forscherinnen und Forschern aus den Lebenswissenschaften Gelegenheit geben, in der anregenden Atmosphäre eines internationalen und multidisziplinären Institute for Advanced Study zu arbeiten. Je nach persönlicher Situation soll der Aufenthalt den ausgewählten Junior Fellows dazu dienen, sich neu zu orientieren, Ideen zu entwickeln, Forschungspläne zu entwerfen, frühere Arbeiten oder empirische Daten zu überdenken – jedenfalls für eine beschränkte Zeit aus der Routine der täglichen Arbeit, aus dem vorgegebenen Rhythmus des Labors auszusteigen, Umschau zu halten und dabei je nach Umständen mit Wissenschaftlern und Intellektuellen verschiedenster Fachgebiete und Traditionen zu interagieren.

Die Fellows des *College for Life Sciences*, die nach Begutachtung durch ein Expertengremium für eine Dauer von drei bis sechs Monaten eingeladen werden, sind im Übrigen den Fellows des Wissenschaftskollegs gleichgestellt und haben dieselben Rechte und Pflichten. Das Institut erwartet, dass sie für die Dauer ihres Fellowships in Berlin arbeiten und an der Gemeinschaft der Fellows teilnehmen (am internen wöchentlichen Kolloquium sowie an den Mahlzeiten). Das Wissenschaftskolleg stellt Stipendium, Unterkunft und Dienstleistungen zur Verfügung.

Den Fellows des *College for Life Sciences* ist es freigestellt, in ihrer Gruppe zusätzliche Aktivitäten zu betreiben. Ein Wissenschaftlicher Koordinator steht bereit, Hilfestellungen und Anregungen zu geben, gemeinsame Unternehmungen zu organisieren und Verbindungen zu Berliner Institutionen und Kollegen zu schaffen.

COLLEGE FOR LIFE SCIENCES

With the *College for Life Sciences*, the Wissenschaftskolleg wants to provide early-career researchers in the life sciences the opportunity to work in the stimulating atmosphere of an international and multidisciplinary Institute for Advanced Study. Depending on the personal situations of the selected Junior Fellows, the residency should serve to gain new orientation, develop ideas, project research plans, rethink earlier work or empirical data – at any rate, to drop out of the routine of daily work and the predetermined rhythm of the

laboratory, to take a look around, and thereby, in accordance with circumstances, to interact with scientists and intellectuals from the widest possible spectrum of fields and traditions.

Selected by a group of experts, the Fellows of the *College for Life Sciences* are invited to come for three to six months. They are on equal terms with and have the same rights and duties as the Fellows of the Wissenschaftskolleg.

The institute expects them to work in Berlin for the duration of their Fellowships and to take part in the community of Fellows (at the weekly internal Colloquium and at meals). The Wissenschaftskolleg provides the stipend, accommodation, and services.

The Fellows of the *College for Life Sciences* are free to engage in additional activities in their group. A Research Coordinator is ready to provide assistance and suggestions for organizing common undertakings and for establishing connections with Berlin institutions and colleagues.

Fellows des College for Life Sciences 2015/16

Laith Al-Shawaf	Psychologie	Ankara
Barbara A. Caspers	Biologie	Bielefeld
Tina Kretschmer	Psychologie	Groningen
Aniruddha Mitra	Biologie	Gif-sur-Yvette
Hannah Schmidt-Glenewinkel	Biomathematik	Revohot

Scientific Committee des College for Life Sciences

Raghavendra Gadagkar	Biologie	Bangalore
Shakti Lamba	Anthropologie, Biologie	Exeter
Nikolaus Rajewsky	Systembiologie	Berlin
Constance Scharff	Verhaltensbiologie	Berlin
Paul Schmid-Hempel	Biologie	Zürich