

Zukunftskolleg Newsletter

What has been going on at the Zukunftskolleg over summer term 2014? – The response to various calls for our funding programs was tremendous, not only for the Fellowship and Mentorship programs, but also for the two new programs we just launched: Interdisciplinary Collaborative Projects and Transdepartmental Collaborative Teaching.

During the last few months, the Zukunftskolleg community welcomed new 2-year Postdoctoral and 5-year Research Fellows as well as Senior Fellows, Mentors and Associate Fellows. At the same time, some of the “old” Fellows left us and took on challenging positions in academia. In addition, all Fellows were successful in obtaining grants, giving lectures or publishing their latest research results. Read more on the following pages.

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Concerning the Zukunftskolleg

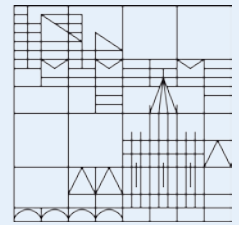
Executive Committee

During the first Jour Fixe in summer term 2014, on April 24, the assembly of members elected **Monika Class** as the new member of the Executive Committee. She replaces **Doris Penka**, whose term of office ended after 2.5 years. We congratulate Monika Class and thank Doris Penka very much for her work in the Executive Committee.

Back Office

In May the Zukunftskolleg welcomed two new colleagues in the Central Office. **Magdalena Delucis** is the new Program Director for Internationalization. As successor to Nani Clow, Magdalena coordinates the Marie Curie Zukunftskolleg Incoming Fellowships program, is responsible for the ZIF Research Fellows and covers strategic issues related to EU-funding and internationalization. She can be reached at Tel. ext. 5686, via email at magdalena.delucis@uni-konstanz.de or in her office, room Y 320. From May through August,

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Susan Rößner supported the Public Relations section.

Funding Instruments

Mentorship Program

In its meeting on June 5, the Executive Committee selected the winners of the Mentorship program (application deadline was May 15). We congratulate Federica Basaglia (Philosophy) who will be mentored by Piero Giordanetti from the University of Milan; Tobias Henschen (Philosophy) who will be mentored by Julian Reiss from Durham University; Philip Leifeld (Politics and Public Administration) who will be mentored by Skyler J. Cranmer from the University of North Carolina, Chapel Hill; Michael Pokojov (Mathematics and Statistics) who will be mentored by Marcus Jobe from Miami University; Jennifer Sparr (Politics and Public Administration) who will be mentored by Daan van Knippenberg from Erasmus University Rotterdam.

For more information on the Mentorship programme please see see:

<http://www.zukunftskolleg.uni-konstanz.de/funding-programmes/mentorship/>

Manfred Ulmer Scholarship

Acting on behalf of the Stiftung Wissenschaft und Gesellschaft, a foundation of the University of Konstanz, the Zukunftskolleg awards the Manfred Ulmer Scholarship to doctoral students every year. The program is open to doctoral students in all disciplines and pays 1,000 euros per month for six months. It enables the scholars to bridge a financial gap between their studies and their doctoral phase. Deadline for the last call for applications was July 15, 2014. Winner of this year's scholarship is Marie Revellio from the

Department of Literature. Her PhD project is entitled "Quid facit cum psalterio Horatius? (*Hier. epist. 22,29,7*) Eine Untersuchung der literarischen Inszenierung kulturellen Wandels bei Hieronymus mithilfe digitaler Inter-
textualitätsanalyse."

Call for Interdisciplinary Collaborative Projects

(Application deadline: July 15, 2014)

The Zukunftskolleg offered up to 5 grants of up to 10,000 euros to initiate interdisciplinary collaborative research projects. The new funding program aims to promote research collaboration within the Zukunftskolleg or between a Fellow of the Zukunftskolleg and other researchers. An interdisciplinary research project gives grant holders the opportunity to identify and explore new, innovative and/or risky research perspectives with neighboring disciplines and across disciplines. The following projects will be funded:

1. *"Feature-based Extraction of Contentious Actor – Statements from News Narratives"*

Cooperation between Philip Leifeld (Postdoctoral Fellow/Dept. of Politics and Public Administration), and Jürgen Lerner (Dept. of Computer and Information Science)

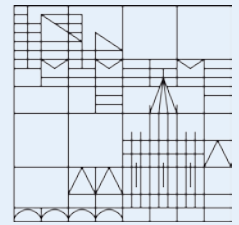
2. *"Helping and Cooperation in a Normative and in a Clinical Population of Children: An Interdisciplinary Investigation"*

Cooperation between Margarita Stolarova (Research Fellow/Dept. of Psychology), Roman Rädle (Dept. of Computer and Information Science), and Nora Hangel (Dept. of Philosophy/Cluster of Excellence)

3. *"History and Film: Screening the Dictatorial Past in Argentina, Chile and Brazil"*

Cooperation between Nina Schneider (Postdoctoral Fellow/Dept. of History and Sociology) and Estela Schindel (Dept. of History and Sociology/Cluster of Excellence)

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Call for Transdepartmental Collaborative Teaching

(Application deadline: July 15, 2014)

The Zukunftskolleg offered up to 5 grants of up to 5,000 euros to initiate transdepartmental collaborative teaching. This funding program aims at promoting the development of new teaching courses and contributing to the departmental syllabi.

The following courses will be funded:

1. *“Nature and Culture as a False Dichotomy”*
Cooperation between Raul Acosta (Associate Fellow/Dept. of Sociology) and Wolf Hütteroth (Postdoctoral Fellow/Dept. of Biology)

2. *“Philosophy of Archaeology”*
Cooperation between Magdalena Balcerak Jackson (Research Fellow/Dept. of Philosophy) and Maria Cruz Berrocal (Research Fellow / Dept. of History)

3. *“Recognition in Theatre, Literature and Philosophy”*
Cooperation between Andrea Lailach-Hennrich (Postdoctoral Fellow/Dept. of Philosophy) and Julia Boll (Postdoctoral Fellow/Dept. of Literature)

Recent call for 2-year ZIF and 5-year ZuKo and ZIF-Fellowships

In its most recent call for 2-year Postdoctoral and 5-year Research Fellowships (the closing date for applications was August 31, 2014), the Zukunftskolleg received 172 applications.

In its first meeting on October 1-2, the Recruitment Committee chooses the finalists for the 2-year Postdoctoral Fellowships. In its second meeting on December 4-5, the best candidates chosen from among these finalists will be offered a 2-year position. On the same day, the Committee will choose the finalists applying for a 5-year Research Fellowship who are to be invited to the “Workshop on Future Research Directions” on January 15-16, 2015.

The Zukunftskolleg offers the following Fellowships:

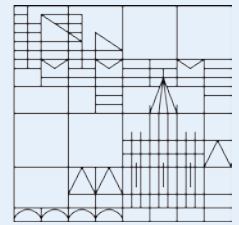
➤ **ZIF Marie Curie 2-year Postdoctoral Fellowships** (for any discipline represented at the University of Konstanz, Salary Scale 13 TV-L) for researchers in the early stage of their career to enable them to develop and carry out individual and independent research projects. This call for proposals is part of the Zukunftskolleg Incoming Fellowship Program (ZIF) and is financed by the Seventh Framework Program (FP7) Marie Curie Actions – People (co-funded by regional, national and international programs), the German Research Foundation (DFG) and the University of Konstanz. The rules and ethical principles for FP7 and the DFG guidelines apply.

➤ **Zukunftskolleg Research Fellowships and ZIF Marie Curie 5-year Research Fellowships** (for any discipline represented at the University of Konstanz, Salary Scale 14 TV-L) to develop and carry out individual research projects. This call for proposals is part of the Zukunftskolleg Incoming Fellowship Program (ZIF) and is financed by the Seventh Framework Program (FP7) Marie Curie Actions – People (co-funding for regional, national and international programs), the German Research Foundation (DFG) and the University of Konstanz. The rules and ethical principles for FP7 and the DFG guidelines apply.

Co-funding

The Executive Committee and the Director of the Zukunftskolleg approved 60 applications for start-up funding, student assistants, travel allowances and consumables between March 2014 and August 2014 for a total of 180,760.02 euros.

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Events

Jour Fixe

A Faustian Poodle

Jour fixe talk by Sven Lauer on May 8, 2014

Situations in which we say things that we don't actually mean – and we mean things that we don't actually say – are Sven Lauer's special field. The linguist and Postdoctoral Fellow at the Zukunftskolleg works on pragmatic inferences, inferences that we draw when listening to someone speak, and more specifically inferences that we draw from utterances that have a meaning beyond their literal meaning.

Everyday life is full of those “conversational implicatures,” as the philosopher of language Paul Grice first called such inferences. In his Jour Fixe talk on May 8, Lauer gave the example of Bob and Paul who share an apartment. Bob is listening to loud music, when Paul peaks into his room and says: “Hey, I really need to get some sleep.” Bob, just as everyone else, will be able to understand that Paul's utterance is a request to turn the music down.

Traditionally, such implicatures have been assumed to be optional and cancelable: it depends on the context if an inference can or cannot be drawn from the same utterance; and the same context can or cannot produce an inference. While current theories challenge this traditional assumption, Lauer argues that this assumption is correct – especially in situations where speakers have a choice of how they express themselves.

Thus, while from an utterance like “Bob wants a poodle” we conclude that Bob wants a dog,

we usually assume that if “Paul wants a free iphone,” he does not necessarily want an iphone, Lauer argued. His talk was followed by a lively discussion among the audience about the meaning of such utterances.

More information about Sven Lauer: <https://www.zukunftskolleg.uni-konstanz.de/people/personen-details/lauer-sven-2425/6338/2415/>

“Normal” vs. “Not Normal”

Jour Fixe talk by Joanna Chojnicka on May 22, 2014

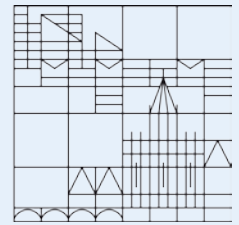
In her Jour Fixe talk on “Attitudes to confessional and sexual minorities in the Changing Latvian, Lithuanian and Polish Media Discourse,” Postdoctoral Fellow Joanna Chojnicka looked at the perception of gays in different media. While she examines the recent discourse from the decades following the breakdown of the communist system in Eastern Europe, she also looks at historical discourses that, as Chojnicka argues, form part of the underlying schemes of resistance against gay lifestyles. Like the Jews in the interwar period, she argues, gays function as scapegoats, embodying the processes of modernization and fluidity that are resisted by conservatives. Although public opinion in the three countries is slowly changing and societies becoming more tolerant towards sexual minorities, politics and the church still dominate the discourse with the aid of the media. In this discourse, gays are set equal to the EU – and are incompatible with national identities.

“My Job is to Make Biologists Happy”

Jour Fixe talk by Minmin Shen on June 5, 2014

Many biologists are interested in studying the behavior of animals. Some of them are interested in bees, and among them are a few that primarily specialize in the movements of a

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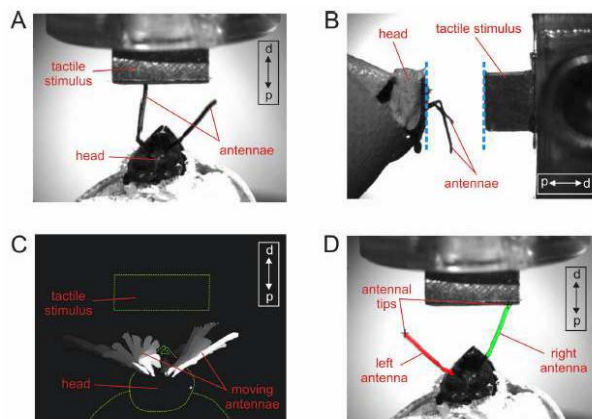
bee's antennae, proboscis and mandibles to discover more about olfactory learning. The fact that the analysis of these movements is not easy seems quite obvious: The movements are fast and minute. This is where computer expert Minmin Shen gets involved: She developed a computer program designed to analyze video data from bee experiments. In her talk about "An interactive framework for insect tracking" she presented her research.



Tracking is defined as "estimating location of moving object(s)/extract trajectory." The video data she receives from biologists contain tracked bee movements at a rate of 30 or 60 frames per second and lasting 15 seconds to 20 minutes. She classifies the tracked objects in three categories: antenna, mandibles, and proboscis. Then she estimates benchmark frames and creates a constraint frame-to-frame linking. Because of the interaction between targets, tracking is quite difficult: detection errors occur, and missing, occluded or merged targets create a long tracking gap. "Here lie the limitations of automatic approaches," explains Minmin Shen. "The labels are not corrected with the help of the benchmark frames. Even sophisticated algorithms have their limits, if the assumptions do not hold." Hence evaluation of tracking performance has to be done manually by viewing the whole video. Minmin Shen proposes an interactive tracking algorithm. She requests users to correct a small portion of the whole video so that the frames with high

annotation cost (key frames) are rectified.

In the future Minmin Shen will be working on a more sophisticated mathematical model of the trajectories and track the targets with pixel-level precision.

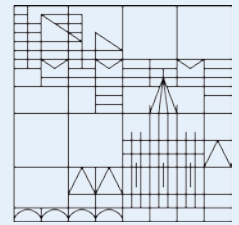


More information about Minmin Shen: <https://www.zukunftskolleg.uni-konstanz.de/people/personen-details/shen-minmin-2254/6338/2415/>

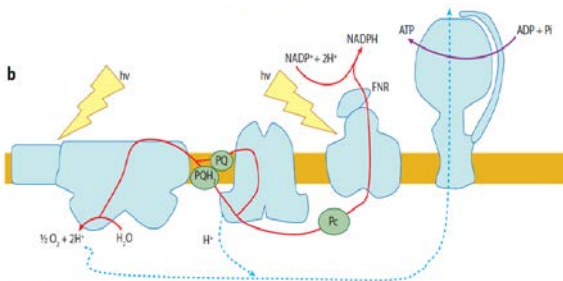
How Algal Cells Communicate
Jour Fixe talk by Bernard Lepetit on July 3, 2014

His name is not only Lepetit, in his research, he is also interested in the smallest things of life: microorganisms. As a biologist, Lepetit focuses particularly on the process of photosynthesis and its regulation. During photosynthesis, carbon dioxide and water are converted with the aid of light into oxygen and carbohydrates. Without a continuous supply of O₂, the atmosphere would be devoid of oxygen and life as we know it would not be possible.

In his presentation on "The History of Photosynthesis Evolution and its Consequences on Intracellular Communication," Bernard Lepetit first

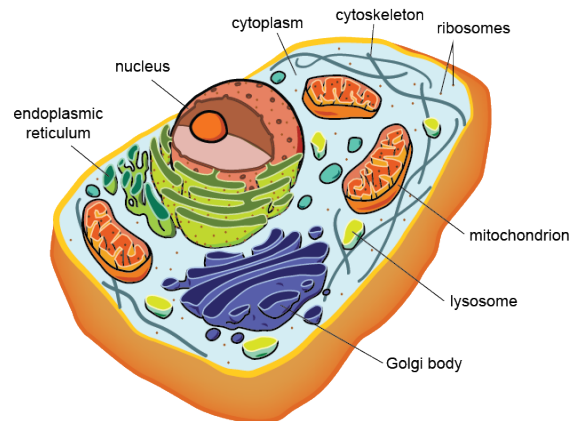


explained the roots of photosynthesis: The first geological evidence for oxygen accumulation goes back to the ur-earth, when oxygen was bound in H_2O and CO_2 and can be found as the presence of red banded iron formations and in deviations of the isotopic ratio of sulfur. Approximately 2.7 giga years ago, cyanobacteria having two photosystems evolved, each of which can be found alone in anoxygenic phototrophic bacteria. This occurred by the uptake of one photosynthetic bacterium by another photosynthetic bacterium, which gave rise to a cyanobacterium containing two different photosystems operating in series, as it were.

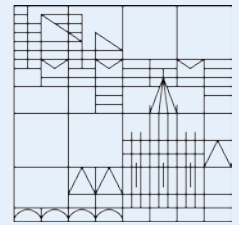


Then, approximately 2 to 2.5 giga years ago, more complex systems called eukaryotes evolved, where a eukaryotic ancestor engulfed a proteobacterium and “domesticated” it as a mitochondrion. The original function of the mitochondria was probably bacterial photosynthesis, where light energy was used to acquire nitrogen. When oxygen concentration rose, they inverted the electron flow and used the oxygen to oxidize carbon in order to gain energy. 1.5 giga years ago, eukaryotic photosynthesis was invented by the engulfment of a cyanobacterium by a heterotrophic eukaryotic cell. This process is called primary endosymbiosis (the chloroplasts here are called “primary” plastids), followed by the secondary endosymbiosis about 1.2 giga years ago, where a heterotrophic cell engulfed a primary plastid containing photosynthetic eukaryote (the chloroplasts here are called ‘secondary’

plastids). An important consequence of endosymbiosis was that the majority of genes from the endosymbiont were transferred from it to the host; also, the establishment of additional membranes surrounding the chloroplast required specific transporters for the transfer of metabolites and proteins.



In all photosynthetic eukaryotes, the chloroplast contains thousands of proteins and is surrounded by two to four membranes. Only the minority of these proteins is encoded as genes in the chloroplast itself due to the gene transfer during endosymbiosis. Consequently, almost all protein complexes in the chloroplasts are chimeric complexes of nuclear and plastid encoded proteins. This chimeric nature asks for a fine regulation of nuclear gene expression with a trigger inside the chloroplast (retrograde signaling). Bernard Lepetit wanted to find out more about retrograde signaling in algae with secondary plastids. To do so, he worked with diatoms which he calls “beautiful unicellular algae” and “one of the most important ecological groups on the globe.” Therefore he investigated the possibility of a component in the chloroplast (PQ-pool) being a sensor that can transduce a gene expression stimulus to the nucleus. He was able to demonstrate that the PQ-pool has an influence on the synthesis of specific photoprotective pigments inside the chloroplast. “The pigment pool size is



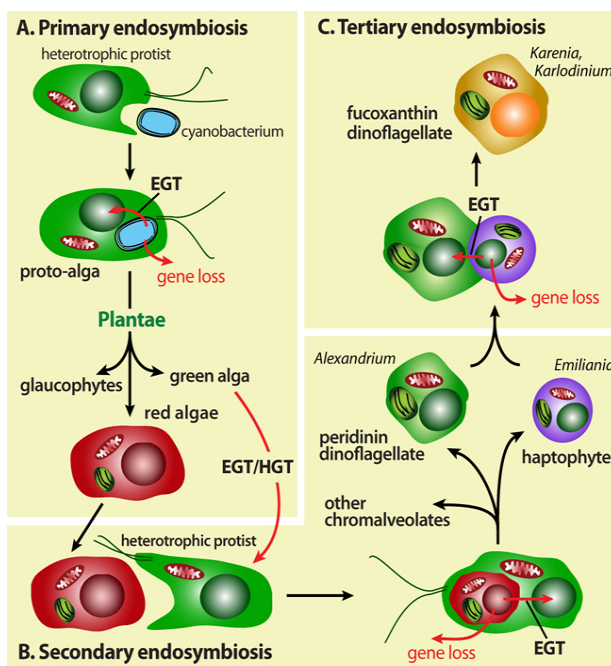
regulated by the redox state of the PQ-pool inside the chloroplast; that means the PQ-pool is a trigger.” Expanding on this finding, he obtained evidence for a stimulating function of the PQ-pool on nuclear gene expression of genes encoding for photoprotective proteins (LHCX). With that result, he provided the first example of retrograde signaling in organisms with secondary plastids.

Medicine, Empire and Knowledge Transfer in Multiethnic Qing China

Jour Fixe talk by Beatriz Puente-Ballesteros on July 10, 2014

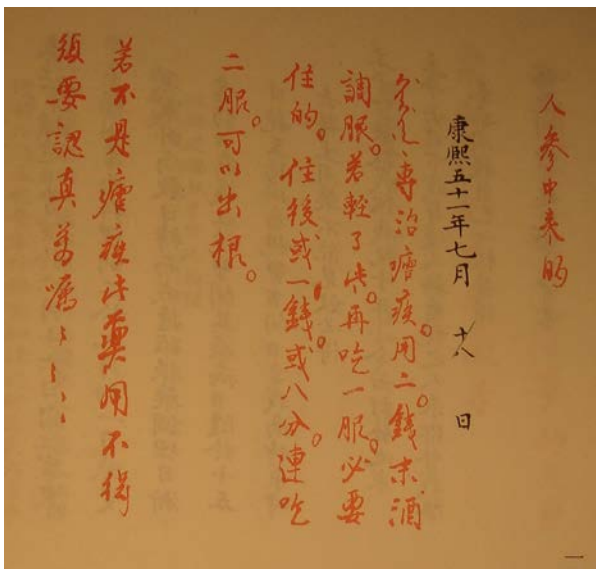
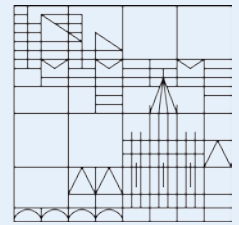
Beatriz Puente-Ballesteros is a medical doctor, sinologist and science historian. She has mastered East Asian (Chinese, Manchu and Japanese) and European languages (Latin, French, Italian, Portuguese, Spanish and English). The combination of all these abilities and her keen interest in global history is reflected in her pioneering research. In her presentation on “Ecce Homo: Medicine and Empire in China Under the Rule of the Manchu Kangxi Emperor (r. 1662-1722)” she reflected on the political implications of the penetration of Western medicine in the multiethnic Qing empire.

The Kangxi Emperor was the first of the Qing rulers to be born on Chinese soil, and he governed China for 61 years. As New Qing historians have argued, one of the key elements of his success was the establishment of a number of reforms in order to consolidate Manchu identity. First, the emperor sponsored social, political and economic measures to promote the growth of the ethnicities that belonged to the newly defined boundaries of the Qing empire (Manchus, Chinese, Mongols, Turkish, Tibetans, Uighurs, and Kazaks). In a more symbolic dimension, the emperor appropriated the various rituals practiced within his empire by constructing different images of his imperial persona that better matched the heterogeneous subjects that he controlled. In such a multiethnic empire, it seemed logical that Western ideas would be introduced. In fact, members of the Society of Jesus during the Kangxi reign established themselves in the very court of the empire by encouraging the emperor’s curiosity for Western sciences.



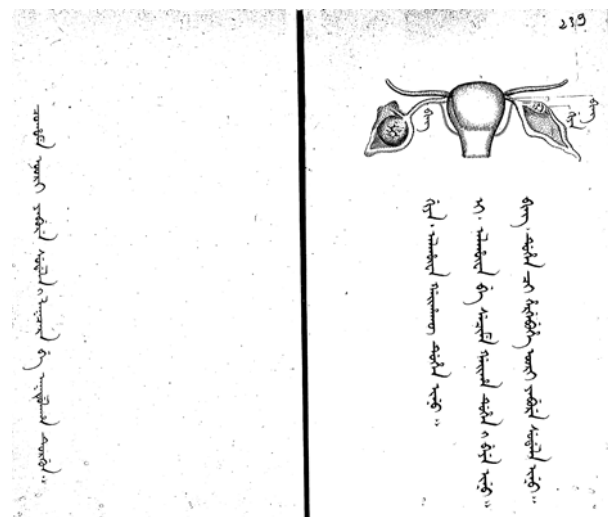
His future work will focus on isolating samples for a large-scale analysis of gene expression changes, investigating mutants impaired in the reduction of the PQ-pool towards their capacity of retrograde signaling (collaboration with Johann Lavaud, France), and establishing a system to measure the redox state of the PQ-pool.

More information about Bernard Lepetit: <https://www.zukunftskolleg.uni-konstanz.de/people/personen-details/lepetit-bernard-2261/6338/2415/>

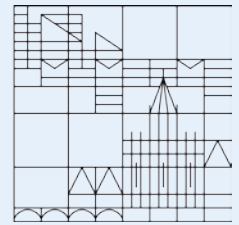


cordis. The result was the book edition: “*Dergici toktobuha ge ti ciowan lu bithe* (Imperially-Commissioned Complete Record on the Body)”. Beatriz Puente-Ballesteros – based on her own translation of the book section: “*jusei oron i sube sudala be gisurehengge* (Nerves and Blood Vessels of the Uterus)” [see image 2] – concluded that the emperor became the main sponsor of the entire translation project, but his political and ideological aims also turned him into the main censor: “His aim was to contribute to the existing Chinese medical corpus, but not to create a new one. The emperor, the ultimate arbiter who decided what elements of Western sciences should be incorporated into imperial science, decided that “Manchu Anatomy” was neither translated into Chinese nor printed.”

In her lecture, Beatriz Puente-Ballesteros showed that medicine in both practical and theoretical terms served the emperor’s strategy of contributing to consolidate his multiform rulership. Within this framework, “Jesuit medicine” was functionalized. For her research, Beatriz Puente-Ballesteros first worked on 8,000 palace memorials, including the Chinese and Manchu series (*zhouzhe* 奏折/*wesiburengge*), a secret means of communication and control by which the emperor obtained first-hand information from the ruler’s “ears and eyes.” The emperor responded to these *memorandum* using his vermilion brush (*zhubi* 朱批): a unique testimony of the emperor’s intervention in medical practice and his political motivations. The historian has taken as an example cinchona or *gingina* (in Manchu spelling) [see image 1], the well-known South American drug closely related to Jesuit’s economy that by then was appropriated by the Kangxi emperor and shows how global processes were shaped within the Chinese context. She also explained that Jesuits at court transmitted Western anatomical knowledge: the Vesalian revolution and new discoveries on blood circulation by William Harvey’s *De motu*



According to Beatriz Puente-Ballesteros, Manchu sources provide unparalleled information about the Kangxi Emperor’s personal and personalistic way of ruling beyond the reports available in bureaucratic Chinese sources: “On one hand, they give evidence of the importance of the multiethnic non-Han network of power, on the other, they help us to understand the paradoxically changing policies of the Manchu Kangxi Emperor towards a more sinicized monarch.”



More information about Beatriz Puente-Ballesteros:

<https://www.zukunftskolleg.uni-konstanz.de/people/personen-details/puente-ballesteros-beatriz-2298/6338/2415/>

Insights into a Mini-Brain

Jour Fixe talk by Andreas Thum on July 17, 2014

Understanding how a brain functions is quite difficult, because it consists of a highly complex network of innumerable neurons. However, the brain of the fly *Drosophila melanogaster* consists of only about 200,000 neurons and is accessible on the neuronal, molecular and behavioral level due to a well-established set of genetic tools. And even more simplified, the larval brain of *Drosophila melanogaster* consists of only about 10,000 neurons (about 5% of the adult brain). For this numerical reason, Andreas Thum's research focuses on the brain of *Drosophila* larvae, which he presented in his talk on "Cognitive Architecture of a Mini-Brain: Developmental, Neuronal and Physiological Fundamentals of Learning and Memory."



Neuroscientist Eric R. Kandel stated in his Nobel Lecture on December 8, 2000: "Instead of studying the most complex cases, we needed to study the simplest instances of memory storage, and to study them in the

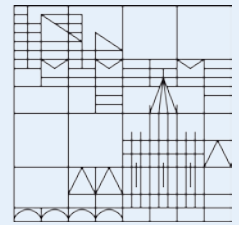
elementary reflex behavior of those animals that were most experimentally tractable." "Although Eric R. Kandel may never have thought about the *Drosophila* larva, he exactly lists all advantages that this model organism offers for analyzing how a brain organizes behavioral outputs," Andreas Thum points out.



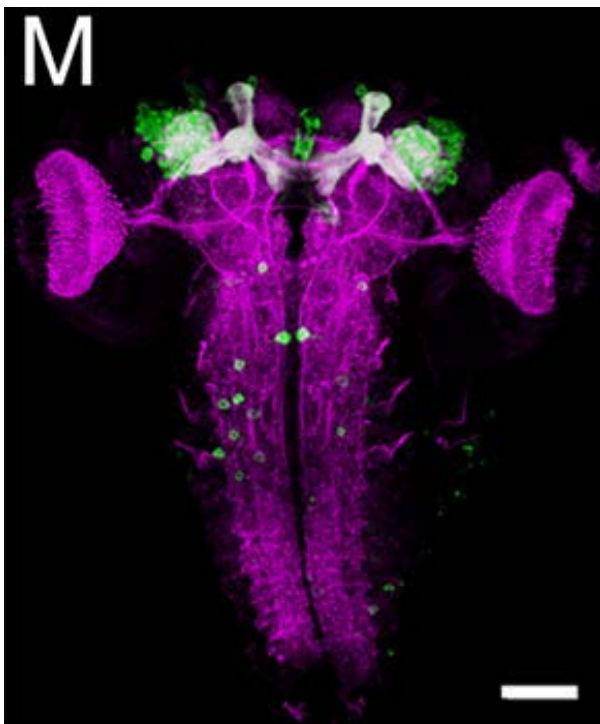
To study associative learning processes in *Drosophila* larvae, the biologist and his collaborators conduct olfactory as well as visual tests by stimulating the larvae with sugar reward or salt or electric shock punishment. They established a comprehensive set of behavioral experiments in this way that can now be used to identify the parts of the brain that are important for reward and punishment learning.

But before doing so, detailed knowledge about the larval brain anatomy is required. Therefore, in collaboration with the lab of Albert Cardona from the Howard Hughes Medical Institute Janelia Farm (USA) and 18 additional labs world-wide, Andreas Thum has joined a community approach to reconstruct every single neuron of the brain with its entire

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synaptic connectivity. Once established, a unique instrumentation will be available to identify the neuronal circuits of the larval brain, including the ones required for reward and punishment learning.



Today, however, some information on the neuronal circuits underlying larval learning already is available. Among other neurons, the mushroom body, which is formed mainly by Kenyon cells (third order olfactory neurons) was identified as the memory center necessary for odor-reward and odor-punishment learning. “Thus, we have identified an elementary circuit necessary for establishing odor-sugar memories.”

The group led by Andreas Thum was also able to show that associative olfactory salt punishment learning can be recalled up to four hours after training. They found that this type of memory is resistant to cold-shock treatment and is established independently of the molecular machinery involved in short-term

and long-term memory. “We have gained insights into a molecular machinery necessary for establishing odor-salt memories – i.e. exclusively ARM – an anesthesia resistant type of memory. Interestingly, although also present in flies and other animals, this type of memory has often been neglected until now,” concluded Andreas Thum.

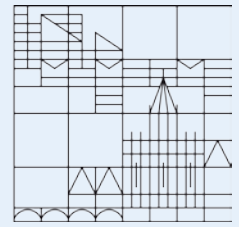
At the end, he gave a short summary of his future research plans, which will also address how sensory information is actually sensed and signaled “upstream” of the brain and how changes in the brain will also activate different types of motor neurons that ultimately trigger an appropriate behavioral output in a given situation.

More information about Andreas Thum: <https://www.zukunftskolleg.uni-konstanz.de/people/personen-details/thum-andreas-stephan-1180/6338/42244/>

Secrets Beneath a Parking Space
Jour Fixe talk by María Cruz Berrocal on July 24, 2014

María Cruz Berrocal’s current field of research is an ordinary parking space in Taiwan. However it is not the parking area itself, but the ground underneath in which the archaeologist and her colleagues do excavations. Born in Spain, María Cruz Berrocal is interested in the early Spanish presence in the Pacific. In her talk on the “Archaeology of a Spanish colony in Taiwan in the 17th century,” she reported on her project and the latest field research on the Spanish colony of San Salvador de Isla Hermosa. It was founded by the Spanish on Heping Dao, Taiwan, in the 17th century, although the colonists were then expelled by the Dutch and the Dutch later by the Chinese.

The ethnic diversity in San Salvador, with Taiwanese, Chinese, Japanese, Europeans (Spanish soldiers and merchants, priests, servants; Portuguese), Filipino (Cagayans,



Pampangos, Tagui, Balayans, Negro), Mestizo (Chinese and Filipino), Malabars and Cafre (black slaves) is enormous, though the people share a similar material culture.



“The project aims to understand the articulation of large-scale historical processes – situated at the core of the globalization process – with local and regional dynamics,” says María Cruz Berrocal. “We aim to understand the role of Taiwan in incipient global trade. The island can be regarded as an extension of the Chinese-Spanish ground for exchange of trading commodities, such as silver and porcelain, which really made a difference in the global economy.” One main objective of the project is to understand the impacts on local populations.

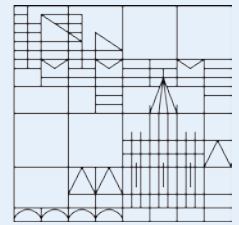
“We can study colonialism through a series of archaeological markers; but colonialism also entails economic exploitation,” says the historian. In fact, the goal of exploiting the colony is clearly observed in a letter by a Dutch governor in Formosa, stating that: “The Chinese are the only bees on Hermosa that give honey.” During their excavations, María Cruz Berrocal and her team found many remains of the Neolithic and Iron Age, including post holes that denote houses, or rather, trajectories of houses. The Iron Age is characterized by improved technology, as observed in the remains of metallurgical activities for forging.

Using stratigraphic methods, archaeologists can date the remains and also demonstrate environmental changes, such as fluctuations in sea level and changes in sedimentation patterns. Dating to the time of the Spanish colony, remains of foundation walls of a large European building have been found. The European origin of the building was determined through the analysis of its construction technique and its stratigraphic position.



The latest excavations on the parking area in May 2014 revealed at least four tombs, three of them Christian burials and a native child burial, in association with the building. Therefore, it apparently included a cemetery and the former “Convento de Nuestra Señora de Todos Los Santos.” The excavated skeletons are currently being analyzed by anthropologists to determine gender and ethnicity.

To conclude her talk, María Cruz Berrocal summarized her central research objectives: the configuration of the colonial space (filling gaps in written sources); learning more about ways of life/integration/interaction; comparing colonial/religious policies; reconsidering the role of material culture in Asia-Pacific colonialism; analyzing the interplay of Taiwan as a fringe colonial territory, a node within a dense network of regional interactions, and



the very important element of the Taiwanese social formations; as well as investigating the relationship between Europeans and previous colonial agents (Chinese). All of these elements shaped the subsequent colonial process in the region.



More information about María Cruz Berrocal:
<https://www.zukunftskolleg.uni-konstanz.de/people/personen-details/cruz-berrocal-maria-2293/6338/42244/>

Public Lectures

An African Peace

Mentor Adekeye Adebajo pleads for Africa to make its own history, May 8, 2014

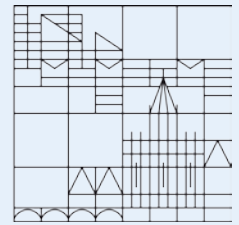
A strong plea for the ability of Africa to develop independently of external political influences was voiced by Dr. Adekeye

Adebajo in a Public Lecture he gave on May 8, 2014 at the University of Konstanz. The Lecture, entitled “Towards a New Pax Africana: Africa’s Evolving Security Architecture,” is part of the Zukunftskolleg Mentorship position Adekeye Adebajo holds for Martin Welz, a political scientist and Associate Fellow of the Zukunftskolleg.



Mr Adebajo, Executive Director of the Centre for Conflict Resolution in Cape Town/South Africa, gave an overview of current political, economic and security issues in African subregions before broadening the view towards the global scope of African politics. He emphasized the fact that African politics are influenced by the Big 5 – the U.N. Security Council members – and former colonial powers, among others. For a successful peace-making in Africa the interest of the Security Council’s key members is just as important as the cooperation of regional players and the interest of belligerent parties in cooperating with the U.N. Domestic, regional and external interests need to be aligned. Adebajo made it clear, however, that Africa needs to be able to act on its own behalf. While the U.N. should play an important role in supporting the continent, other powers should diminish their presence.

Regarding the change in European security structures and policies, however, chances are



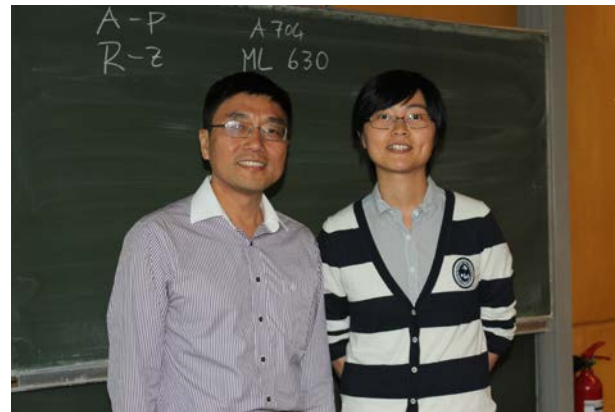
that security structures in Africa might change as well. Africa needs stable regional hegemony, such as South Africa. Security reforms need to be put in place and more money needs to be spent for state building, for example in the administrative area, says Adebajo, in terms of the continent's future development.

Perception-driven Multimedia Signal Modeling

Public Lecture by Mentor Weisi Lin, July 9, 2014

In his talk, Weisi Lin, Associate Professor in the School of Computer Engineering at Nanyang Technological University, Singapore, and Mentor of Postdoctoral Fellow Minmin Shen, introduced the problems associated with perceptual visual and audio quality metrics, and the substantial research and development work done so far in the related fields. He explained: "Signal quality evaluation plays a central role in shaping almost all signal processing algorithms and systems, as well as their implementation, optimization and testing. Since humans, with both vision and hearing, are the ultimate receivers of the vast majority of (natural or computer generated) signals— after acquisition, processing and transmission —, incorporating proper human perception characteristics not only makes built systems user-oriented, but also enables resource savings, i.e., turning the imperfectness of human perception into advantages in design." Thus, significant research effort has been invested in modelling the human perception mechanism – especially vision and hearing – and to apply the models to various situations. "The resultant metrics are to replace the existing, mathematical measure (e.g. MSE, SNR, PSNR or one of their relatives) to define and gauge the distortion of processed signals, since MSE, SNR or PSNR does not reflect human perception well. Perceptual metrics are expected to fill a gap in most existing signal

processing related to products and services; namely as a non-perception-based criterion used in engineering design versus devices/services for humans to consume."



Weisi Lin's research area can be seen as an exciting, interdisciplinary effort since it enables user-oriented designs and further system performance improvement. "We need to incorporate the latest relevant findings in physiology, psychology and perception science into computational models, and to verify such models with psychophysical data." At the end of his talk, the computer expert presented opinions on future research directions and development in related fields.

More information about Weisi Lin:

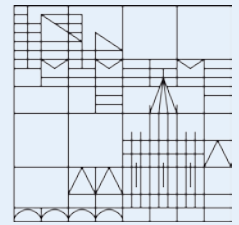
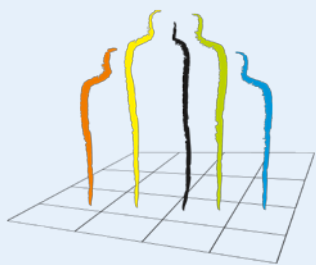
<http://www.ntu.edu.sg/home/wslin/>

The Historical Memory Project

Public Lecture by Senior Fellow Marcia Esparza, July 17, 2014

In her talk on "The Historical Memory Project (HMP): Legacies of State Violence, War and Genocide in Latin America," Marcia Esparza, Founder and Director of the HMP as well as Associate Professor in the Department of Criminal Justice at John Jay College of Criminal Justice at The City University of New York (CUNY), gave insight into her work.

Imprint



**The Historical Memory Project (HMP):
Legacies of State Violence,
War and Genocide in Latin America**

July 17, 2014
6.45 pm | Room Y 310

Marcia Esparza
Founder and Director, Historical Memory Project (HMP)
Associate Professor, Department of Criminal Justice
John Jay College of Criminal Justice
The City University of New York (CUNY)

The Historical Memory Project (HMP) is a hybrid, digital humanities learning resource that documents and advocates for truth, historical memory, justice and public access to state violence, war and genocide archives in Latin America. Researchers with the HMP collect and digitally disseminate evidence, artifacts and materials from the Cold War years with special attention given to mass atrocities committed against indigenous peoples. The public is invited to bear witness not only to state violence, war and genocide, but also to heroic struggles of resistance against historical injustices.

Marcia Esparza launched the Historical Memory Project in 2002 to preserve the collective memory of war and to promote critical awareness of long-term consequences of state violence and genocide in Latin America. Esparza's field research includes interviewing war survivors as part of the United Nations' Historical Clarification Commission in Guatemala (1997-1999), and later, with pro-army groups in the country's highlands. Her post-doctoral research includes locating and examining Cold War human rights court files in Chile.



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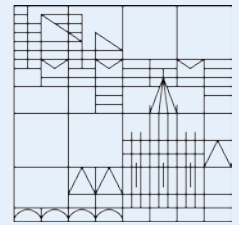
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Clarification Commission in Guatemala (1997-1999), and later, with pro-army groups in the country's highlands. Her post-doctoral research includes locating and examining Cold War human rights court files in Chile. She has co-edited "State Violence and Genocide in Latin America: The Cold War Years" (Routledge, 2009), with Daniel Feierstein, published in leading academic journals like the "Journal of Genocide Research." Marcia has also received prestigious fellowships from the Ford Foundation (2010-2011) and the National Endowment for the Humanities, NEH (2011-2012). Currently, she is completing her second book, "Silenced Communities: Legacies and Resistance to Militarization in Postwar Santo Tomas Chichicastenango," El Quiché, Guatemala (1997-2004).

More information about Marcia Esparza:
[http://johnjay.jjay.cuny.edu/profiles/criminal_justice.aspx?key=\[email\]=%27mesparza@jjay.cuny.edu%27](http://johnjay.jjay.cuny.edu/profiles/criminal_justice.aspx?key=[email]=%27mesparza@jjay.cuny.edu%27)

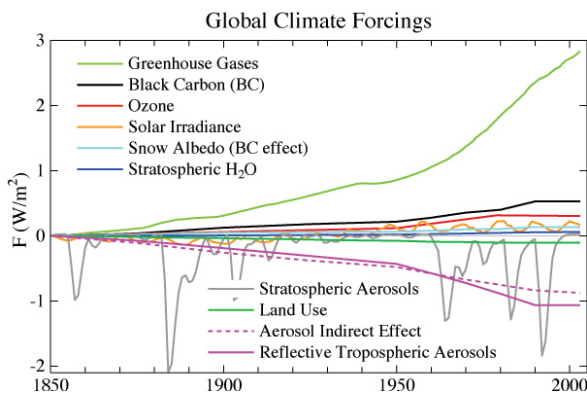
**Benefits for Climate, Air and Health
Public Lecture by Brian Cairns, July 21, 2014**

How fast will our climate change and what can we do about it? This was the main question that Brian Cairns, Aerosol Polarimetry Sensor (APS) Instrument Scientist at the Goddard Institute for Space Studies (GISS) in New York City, addressed in his talk on "Climate and Health" at the Zukunftskolleg. First he explained three central components that are responsible for climate changes: the Greenhouse Effect that makes the earth warmer, the Albedo Effect that makes the earth more reflective and cooler, and the Solar Brightness Effect, which taken together control the temperature of the Earth. Although ice keeps oceans cold by reflecting sunlight, ice is melting increasingly so that the oceans are becoming too warm. And since the industrial revolution and the emission of



industrial aerosols, further changes in the atmospheric composition have taken place.

It is commonly known that carbon dioxide is the primary cause of climate change; thereby human-sourced CO₂ is the single biggest factor leading to an increased greenhouse effect and atmospheric warming. How much warming we expect depends upon how much CO₂ we add to the atmosphere during the next century.

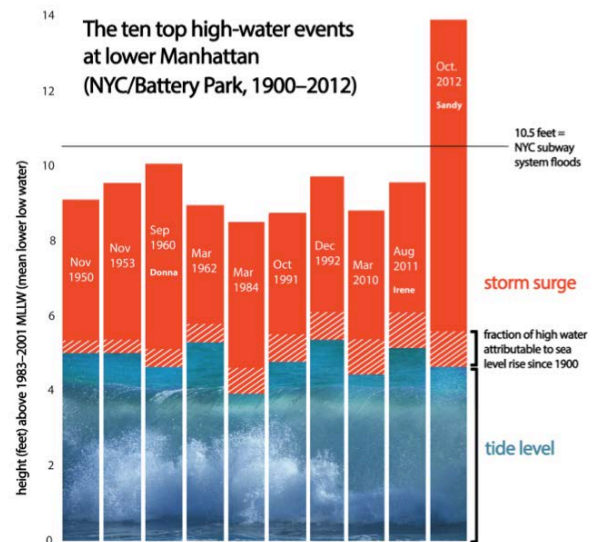


But since the Industrial Revolution, sulfate aerosols have caused other changes in the atmospheric composition. Power plants burning high-sulfur coal produce SO₂, which mixes with cloud droplets to produce reflective sulfate droplets and acid rain. Moreover, aerosols have an indirect effect: smaller cloud droplets create brighter clouds and they require more collisions to create droplets large enough to precipitate. Consequently clouds last longer.

Brian Cairns further stated that the sea level will rise in the 21st century due to a thermal expansion of sea water (warm water is less dense and takes up more space), due to tectonic sinking (on the margins of former continental ice sheets, e.g. coastal mid-Atlantic), and due to a melting of glaciers and land ice. He says that the total is highly uncertain, but probably one meter by 2100.

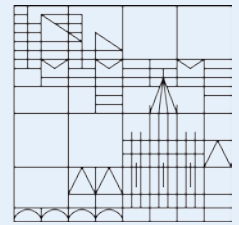
Also by 2100, the temperature in Greenland is expected to warm up by 2-4°C.

Then he asked: Should we wait to stop global warming? Due to the climate inertia we can expect another 0.6°C of global warming in the next few decades as the atmosphere adjusts to today's atmospheric composition. The sea level will continue to rise another 0.5 meters due to thermal expansion over the next few centuries, in addition to any rise due to melting of the ice sheets.

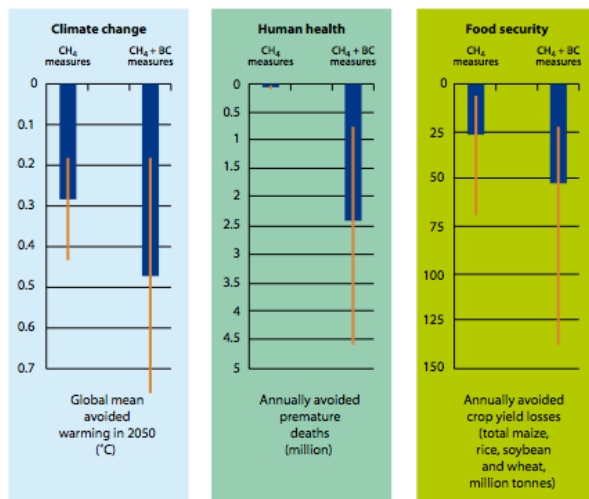


Concerning the inertia of energy infrastructure, power plants have lifetimes of several decades, so what we build today will strongly influence future greenhouse gas emission. More drastic changes will be required the longer we wait to introduce new energy technologies.

But according to Brian Cairns, there are short term changes that can be made at little cost to society and that would have significant benefits in reducing climate change in the near term while also providing substantial public health benefits. One of these short-term effects over the next 30 years is a better air



quality by reducing the emissions of black carbon and methane. Brian Cairns presented the results of a UN study led by Dr. Drew Shindell of NASA GISS that showed the results of air quality measures and warming mitigation measures to limit near-term climate change and to improve air quality.



Black carbon measures aim at reducing emissions of black carbon and co-emissions (OC, CO etc.), e.g. use particle filters in diesel vehicles or coal briquettes replacing coal in residential stoves. These measures might result in a probable large global climate benefit, substantial regional climate benefits (water, cryosphere), significant health and agricultural benefits, and a high confidence level in regional climate and air quality benefits. Methane measures show large benefits for global climate and agriculture, but comparatively small benefits for human health.

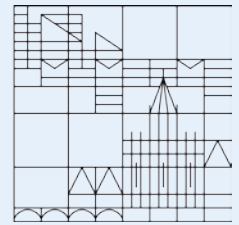
The APS Instrument Scientist reported that the identified measures are all currently in use in different regions around the world to achieve a variety of environment and development objectives. Nevertheless, much wider and more rapid implementation is required to achieve the full benefits identified.

Many measures achieve cost savings over time. However, initial capital investment could be problematic, necessitating additional strategic support and investment.

Brian Cairns finished his talk by presenting world policy responses to the challenges of climate changes: the formation of a “Climate and Clean Air Coalition” and the creation of “The United Nations Environment Program (UNEP).” He quoted: “The UNEP has determined that reducing these pollutants can slow global warming by up to a half degree Celsius by 2050...UNEP has identified a package of 16 major actions...Every one of the actions has already been applied somewhere, and so we know they work...Every single one is based on existing technology, and fully half of them are considered low-cost interventions. So when you put all these factors together, they add up to an important opportunity that we cannot miss.”

In the end he quoted Hillary Clinton’s remark when launching the Climate and Clean Air Coalition: “There is no way to effectively address climate change without reducing carbon dioxide, the most dangerous, prevalent, and persistent greenhouse gas. It stays in the atmosphere for hundreds of years. So this coalition is intended to complement – not supplant – the other actions we are, and must be, taking.”

More information about Brian Cairns: http://www.nasa.gov/mission_pages/Glory/team/Cairns_bio.html



It's all too Human, even the Machines
At this year's "Lange Nacht der Wissenschaft," Zukunftskolleg Fellows presented an array of topics from science and the humanities – many of them relating to things oh so very human, May 17, 2014

At the third edition of the "Lange Nacht der Wissenschaft" (Long Science Night) on May 17, 2014, nine Zukunftskolleg Fellows presented their research topics from science and the humanities to an enthusiastic audience from Konstanz and the surrounding areas.



Because one condition of the talks was that they should be comprehensible to everyone, it soon became clear that Zukunftskolleg Fellows do research on things that address our daily lives and that are very human. For instance, Margarita Stolarova talked about how we tend to assume that someone in a social, e.g. helping, situation, must be a female person. Aline Steinbrecher explained the role of dogs as pets and very close friends in Early Modern History.

Andrea Lailach-Henrich gave an introduction to philosophical methods and questions. By way of absurd and complex Goldberg Machines that are supposed to make life easier, she illustrated the problem of causality.

Julia Boll explained the origins of theatre, while Nils B. Weidmann discussed whether the Internet is friend or foe of the dictator.

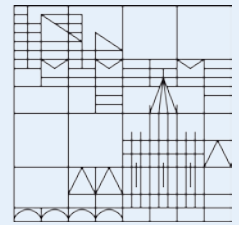


Everyone following Gianluca Rastelli's lecture on quantum mechanics gained a new world view.

Psychologist Roland Weierstall talked about his research on how we perceive odors. His findings were vividly illustrated by samples of synthetic blood that are used in the treatment of trauma spectrum disorders.



Nina Schneider gave insight into the Brazilian Military Regime, microbiologist Michael Pester took a deeper look at the bottom of Lake Constance.



Zukunftskolleg Lecture

Multidisciplinarity: A Neuro-, Psycho-, Linguistic Perspective *Zukunftskolleg Lecture by Senior Fellow Valerie L. Shafer, July 14, 2014*

Multidisciplinarity is currently a popular approach in the sciences, as evidenced by funding opportunities and by university programs that provide training in two or more disciplines for graduate students. From the perspective of a linguist working with psychologists and neuroscientists, Valerie L. Shafer illustrated her experiences in this area.



The Senior Fellow defines multidisciplinarity as “research collaboration among three or more researchers who have received training in different disciplines.” She discussed the reasons for such an endeavor in terms of “knowledge to be gained versus the funding to be obtained.” She stated that “most of us have chosen our career track because we wish to understand some set of phenomena in a particular research area. To pursue this research, we need financial support (for living

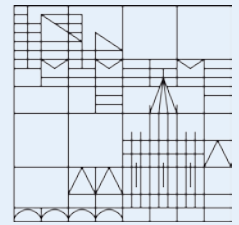
expenses, and in some disciplines, to directly support the research). Ideally, our research interests intersect with funding opportunities.”



In her opinion, a multidiscipline collaboration will be most fulfilling to researchers if the research question is addressed using knowledge/methods from the contributing disciplines. Such collaborations seem less likely to be fulfilling if they are initiated based on the availability of funding.

As a positive example she reported about a collaboration that aimed at understanding speech perception/lexical learning in children with language impairment and children with otitis media. The research team consisted of neuroscientists, psychologists, speech language pathologists, audiologists and linguists. They all had a clear interest in the question: Do deficits/differences in auditory and/or speech processing affect language acquisition? Funding was obtained because the funding agency (review) committee also had an interest.

But, generally speaking, what is the most successful approach for a junior researcher to obtain a secure position/funding? And does a multidiscipline collaboration benefit your career development? According to Professor Shafer, using a well-established approach to examine one research area early in your career is likely to lead to a better publication rate. However, the possible academic positions will need to match narrowly. But multidiscipline research can expand the



repertoire of research tools and research interests. “Multidiscipline experience at a junior stage is beneficial if it leads to collaboration and publications on novel research questions that are relevant to another discipline; it is further beneficial if it allows one to explain the relevance of one’s own background knowledge, and if jobs are available for researchers in the target discipline from ‘related’ fields.” A multidiscipline approach



can also be effective in research institutes that are independent of the traditional university structure, such as the Zukunftskolleg.

In her presentation, the linguist not only discussed why and when multidisciplinary research is reasonable, but also how to practice it successfully – bottom-up or top-down? “Bottom-up collaborations develop through interactions at general meetings or from contacting a researcher who has an approach or interest in a similar question. A top-down approach is organized by someone to bring together collaborators from different fields to address a research question.”

The Senior Fellow referred to a current collaboration with researchers at the Albert Einstein College of Medicine to investigate Auditory Processing Disorders. “The research collaboration developed out of a joint interest in understanding the nature of auditory processing disorders, which currently is a controversial disorder.” Their goal is to obtain funding from the National Institutes of Health to support the research. According to Professor Shafer, the first step of grant writing was successful because of a strong leader and the willingness of collaborators to work together in a collegial fashion.

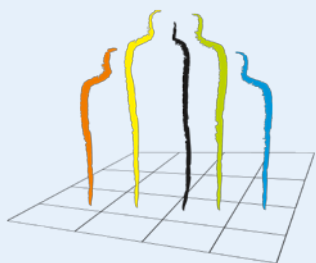
Concerning the diverging methodological approaches of different disciplines, e.g. linguists, psychologists and neuroscientists, she recommends selecting a question that can be empirically tested. While some linguists are comfortable with a “theory” not being testable, this is not an option for the psychologist/neuroscientist.

To conclude her talk, she discussed reasons why multidisciplinary projects fail: no leadership, lack of a strong personality with a willingness to negotiate with collaborators and to solve problems, lack of focus, no clearly-defined problem (can be the result of top-down pressure to start a collaboration), lack of funding, lack of time. Another challenge is to find the right media to publish the results, as some researchers publish narrowly in a few journals that are not an option for multidisciplinary research.



Finally she suggested a common research question to be analyzed by Zukunftskolleg Fellows from philosophy, psychology and neurolinguistics: What is imagination like for children with autism? We will see if it works.

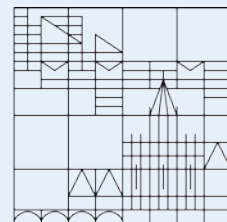
More information about Valerie L. Shafer: <http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/Doctoral-Programs/Speech-Language-Hearing-Sciences/Faculty-Bios/Valerie-Shafer>



Zukunftskolleg

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Invited Talks

Francesca Biagioli:

“Cassirer and the Relativized A Priori,” Limits of Science International Conference, University of Wrocław, Poland, April 24-25, 2014

“Riehl’s Realism about the Thing in Itself and the Role of Metaphysics in the Sciences,” workshop: Knowledge of Transcendent Objects, New Europe College, Bucharest, Romania, May 8-9, 2014

“Die symbolischen Formen der Wirklichkeit: Cassirers Beitrag zur Relativierung des Kantischen Apriori,” Forum Philosophicum, University of Tübingen, Germany, July 2, 2014

“Duhem and Cassirer on the Symbolic Form of Physical Reality,” HOPOS 2014: The International Society for the History of Philosophy of Science Society Congress, University of Ghent, Belgium, July 3-5, 2014

Research Group Talks

“Empirical and Formal Conditions in Helmholtz’s Theory of Measurement,” séminaire: La mesure dans les sciences exactes et dans les sciences sociales, Aix-Marseille University, France, May 21, 2014

“Cassirer and the Relativized A Priori in Geometry and Physics,” workshop: Interactions between Philosophy and the Sciences in the Debate about Spatial Intuition and the Foundations of Geometry, IMéRA/The Mediterranean Institute for Advanced Research of the Aix-Marseille University, France, June 27, 2014

Thomas Böttcher:

“Chemical Manipulation of Bacterial Behavior,” department lecture, Department of Chemistry, University of Konstanz, Germany, May 8, 2014

Joanna Chojnicka:

“Central and Eastern European Social Media Discourse in the Context of Post-socialist Transformation,” lecture at Erasmus Teaching Week, Riga Stradiņš University, Latvia, May 13, 2014

Invited talks on Discourse Analysis within the BA seminar “Theories of Sustainability,” Leuphana University, Lüneburg, Germany, June 12 and 19, 2014

Martin Dege:

“Hexenbutter und Revolution,” invited talk at Vienna University, Austria, April 2014

“Liquid Democracy and other “Fixes” to the Problem of Democracy,” talk at “ReClaiming participation,” Zürich, Switzerland, May 7-9, 2014

“Kraft, Stoff und Marx - Thermodynamik und das Quantified Self,” talk at „Sommerakademie der Studienstiftung des deutschen Volkes,” Leysin, Switzerland, August 21, 2014

Pantelis E. Eleftheriou:

“Locally Definable Groups as Covers of Definable Groups,” Berkeley Model Theory seminar, UC Berkeley, USA, April 9, 2014

“Locally Definable Groups as Covers of Definable Groups,” Model Theory seminar, University of Illinois at Urbana-Champaign, USA, April 18, 2014

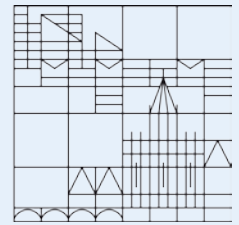
“Pregeometries and Definable Groups,” Logic Colloquium 2014, Vienna University of Technology, Austria, July 14, 2014

Denis Gebauer:

“Pre-nucleation Clusters as Solute Precursors in Crystallization,” MULTIMAT seminar, ETH Zürich, Switzerland, March 28, 2014

“Mineral Precursors in Bio-inspired Syntheses,” Sino-German symposium on Bio-

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inspired Materials Science and Engineering, Technical University Munich, Huazhong University of Science and Technology, sponsored by the Sino-German Center for Research Promotion, Wuhan, China, May 11-15, 2014

“How Do Minerals Form from Aqueous Solution?”, 6th Indo-German Frontiers of Engineering symposium 2014, Alexander von Humboldt Foundation, Potsdam, Germany, May 22-25, 2014

“Pre-nucleation Clusters as Solute Precursors in Crystallization,” E-MRS Spring meeting, Lille, France, May 26-30, 2014

“The Pre-nucleation Cluster Pathway and the Role of Water,” workshop on Nucleation and Early Stages of Particle Formation, Cluster of Excellence Engineering of Advanced Materials (EAM), Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany, June 5-6, 2014

“Towards a Phase Diagram of CaCO₃ Amorphous Polymorphism,” Goldschmidt 2014, Sacramento, California, USA, June 8-13, 2014

“The Decisive Role of Water in the Pre-Nucleation Cluster Pathway,” CECAM workshop Molecular-level Understanding of Nucleation, CECAM Headquarters at EPFL, Lausanne, Switzerland, June 23-25, 2014

Barbara Hausmair:

“Afterlife Topographies. Infant Burials in the Medieval Burial Landscape,” European Association of Archaeologists conference 2014 (EAA 2014), Istanbul, Turkey, September 10-14, 2014

Philip Leifeld:

“Network Analysis and Aging,” invited lecture at the MaxNetAging Research School, Max Planck International Research Network on Aging, Max Planck Institute for Demographic Research, Rostock, Germany, July 18, 2014

“Transboundary Water Politics in Europe: Overlapping Subsystems and Preference Formation in Complex Policy Networks,” invited talk at the Social Networks and the Environment symposium, Program for Society and the Environment (PSE), University of Maryland, College Park, USA, September 19, 2014

Doris Penka:

“Split Scope of Negative Quantifiers: Clausal vs. Degree Negation,” workshop Negation - An Interdisciplinary Workshop on the Syntax and Semantics of Negation, University of Vienna, Austria, April 8, 2014

“‘At Most’: Decomposition and Alternatives,” SFB 883, University of Tübingen, Germany, July 1, 2014

“The Processing Cost of Interpreting Superlative Modifiers and Modals,” with Yaron McNabb, ESSLLI workshop Formal and Experimental Pragmatics, University of Tübingen, Germany, August 11-15, 2014

“The Interaction of ‘At Most’ and Modals,” workshop Two Days at Least, University of Utrecht, Netherlands, September 10-11, 2014

“‘At Most’ at Last,” 19th annual meeting of “Sinn und Bedeutung,” University of Göttingen, Germany, September 15, 2014

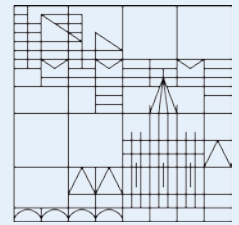
Michael Pester:

“Mikrobiologie zum Anfassen,” lecture for the “Lange Nacht der Wissenschaft” (Long Science Night), University of Konstanz, Germany, May 17, 2014

Beatriz Puente-Ballesteros:

“The Vermillion Brush: Medicine and the Consolidation of the Kangxi Emperor’s Authority in the Light of Manchu Sources, 1662-1722,” international workshop on History of European Medicalization, 14th Century to Present, organized by Prof. Christelle Rabier, École des Hautes Études en Sciences Sociales, Marseille, France, May 26-27, 2014

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Gianluca Rastelli:

“Quasiperiodicity and Revivals in Dynamics of Quantum Phase Slips in Josephson Junction Chains and Superconducting Nanowires,” DPG March meeting, Deutsche Physikalische Gesellschaft, Dresden, Germany, March 31, 2014

“Quasiperiodicity and Revivals in Dynamics of Quantum Phase Slips in Josephson Junction Chains and Superconducting Nanowires,” mini-colloquia in Condensed Matter entitled Mesoscopic Superconductivity and Quantum Circuits, CMD25-JMC14, Paris, France, August 26, 2014

“Ground State Cooling of a Carbon Nano-mechanical Resonator Using Spin-polarized Current,” (co-authors: P. Stadler, and W. Belzig), mini-colloquia in Condensed Matter entitled Nano-Phononics, Nanomechanics and Nano-Optomechanics, CMD25-JMC14, Paris, France, August 28, 2014

Tanja Rinker:

“The Center for Multilingualism: Bridging the gap between research practice,” talk (with Prof. Janet Grijzenhout) at the meeting of the Zukunftskolleg Scientific Advisory Board, University of Konstanz, Germany, March 28, 2014

“Sprachförderung mehrsprachiger Kinder in der Kindertagesstätte,” workshop for parents and educators, Center for Multilingualism, University of Konstanz, Germany, March 2014

“Mehrsprachige Erziehung und Schulbildung,” lecture for parents of Italian pupils as well as for teachers, Center for Multilingualism, University of Konstanz/Staatliches Schulamt Konstanz, Germany, March 2014

“Multilingualism,” lecture for a meeting of teachers from Konstanz and Lodz, Poland, EU-Comenius Project, Konstanz, Germany, May 2014

“Mehrsprachige Erziehung,” workshop for parents and pedagogic specialists, Center for Multilingualism, Konstanz, Germany, and City

of Kreuzlingen (Integration Office), Switzerland, June 2014

“Measuring MMN and T-complex in Bilingual Children and in Children with SLI,” talk presented at the CUNY-KUNI workshop: Development and Analysis of Neural Systems Supporting Language (DANSSL): Perspectives from Monolingual, Bilingual and Impaired Acquisition, Konstanz, Germany, July 4-5, 2014

Nina Schneider:

“The Double-edged Effect of the ‘Transitional Justice’ Paradigm in Post-authoritarian Brazil: Empirical, Conceptual, and Epistemological Concerns,” King’s College Brazil Centre, London, UK, March 4, 2014

“Testing the ‘Public Sphere’ Model in Authoritarian Brazil: The Case of the Miracle Myth (1968-2013),” Latin American Studies Association (LASA) conference 2014: Democracy & Memory, Chicago, USA, May 21-24, 2014

“‘Ligne dure’ et ‘modérés’: La recherche de nouvelles catégories pour les criminels et les collaborateurs, et ses conséquences,” colloquium 1964: La dictature brésilienne et son legs, École des hautes études en science sociales (EHESS) & Brown University, EHESS, Paris, France, June 11-13, 2014

“‘Hardliners’ and ‘Moderates’? The Search for New Categories of Regime Supporters and its Implications,” Brazilian Studies Association (BRASA) conference 2014, King’s College, London, UK, August 20-23, 2014

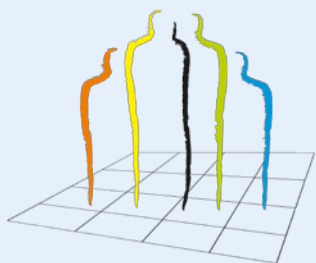
Minmin Shen:

“An Interactive Framework for Insect Tracking,” Shenzhen Institute of Advanced Technology, Visual Computing Research Center, Shenzhen, China, July 24-31, 2014

Ulrich Sieberer:

“Parliamentary Voting in the Frankfurt Assembly,” talk (with Michael Herrmann) at

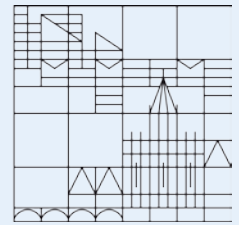
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Zukunftskolleg Newsletter | Konstanz | March – September 2014 | Issue No. 19 | Page 23

the meeting of the Zukunftskolleg Scientific Advisory Board, University of Konstanz, Germany, March 28, 2014

“Kanzlerprivileg oder Koalitionsarithmetik? Politische Erklärungsversuche für Veränderungen im Zuschnitt der Bundesministerien, 1957-2013,” talk at the University of Konstanz, Germany, May 9, 2014

“Chancellor Dominance or Coalition Arithmetic? Political Explanations for Jurisdiction Shifts between Federal Ministries in Germany, 1957-2013,” invited talk at the Empirical Research Colloquium at the Goethe-University, Frankfurt a.M., Germany, May 27, 2014

Jennifer Sparr:

“Ambidextrous Leadership and Employee Change Responses over the Course of Change: Exploring the Role of Fairness Perceptions” (with Peus, C.), presentation at the 49th Congress of the DGPs (Deutsche Gesellschaft für Psychologie), Bochum, Germany, September 2014

“Proaktiver Trainingstransfer: Zwei Studien zur Bedeutung von Reflexion und Feedbacksuche [Proactive Transfer of Training: Two Studies Showing the Significance of Reflexion and Feedback-Seeking]” (with Knipfer, K.; & Willems, F.), presentation at the 49th Congress of the DGPs (Deutsche Gesellschaft für Psychologie), Bochum, Germany, September 2014

“A Model of Managerial Sensegiving during Organizational Change” (with Kraft, A. M., & Peus, C.), presentation at the 49th Congress of the DGPs (Deutsche Gesellschaft für Psychologie), Bochum, Germany, September 2014

“Ideen erfolgreich implementieren: Die Rolle internen und externen Austauschs [Implementing Ideas Successfully: The Role of Internal and External Exchange]” (with Schreiner, E., & Peus, C.), presentation at the

49th Congress of the DGPs (Deutsche Gesellschaft für Psychologie), Bochum, Germany, September 2014

Gudrun Sproesser:

“Why We Eat, What We Eat: What Drives Normal Eating Behavior?,” presentation during mentorship visit at the University of Pennsylvania, Philadelphia, USA, April 8, 2014

“Can We Eat Social Belonging? The Dynamic Interplay between Person and Situation,” presentation at the 28th Conference of the European Health Psychology Society, Innsbruck, Austria, August 29, 2014

“Kann man soziale Zugehörigkeit essen? Das dynamische Wechselspiel zwischen Person und Situation,” presentation at the 49th Congress of the Deutsche Gesellschaft für Psychologie, Bochum, Germany, September 23, 2014

“Warum man isst, was man isst,” PsychoSlam at the 49th Congress of the Deutsche Gesellschaft für Psychologie, Bochum, Germany, September 2014

Edina Szöcsik:

“The Structure of the Political Space in Post-communist Europe in the 2000s,” presentation at the department colloquium, Department of Politics and Public Administration, University of Konstanz, Germany, June 4, 2014

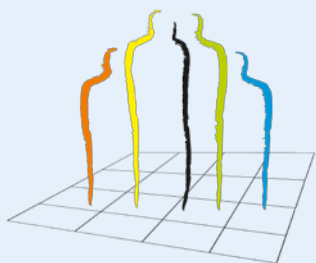
Julián Torres-Dowdall:

“Evolution of Asymmetric Genitalia in Livebearer Fish” (co-authors Aguilera G., Meyer A.), talk at the symposium on Symmetry and Asymmetry in Biology, Muséum national d’histoire naturelle (MNHN), Paris, France, April 3-4, 2014

“Molecular Evolution of the RH2-opsin Complex in Neotropical Cichlid Fish: Are They Different or just Slower than African Cichlids?” (co-authors Pierotti M., Henning F., Elmer KR., Meyer A.), talk at the conference Evolution 2014, Raleigh NC, USA, June 20-24, 2014

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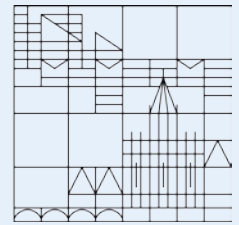
Zukunftskolleg - University of Konstanz
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“Differential Predation on the Two Color Morphs of Nicaraguan Midas Cichlid Fish: Implications for the Maintenance of its Gold-dark Polymorphism,” (co-authors Machado G., Golcher J., Kautt A., Kusche H., Meyer A.), given talk at the conference Evolution 2014, Raleigh NC, USA, June 20-24, 2014

Sandeep Verma:

“Designed Inhibitors of Insulin Amyloidogenesis,” NOST Organic Chemistry conference, Agra, India, April 4-7, 2014

Nils B. Weidmann:

“Within-group Inequality and Conflict,” Department of Political Science, University of Strathclyde, UK, April 30, 2014

“Die Fernerkundung des Internets: Neue Wege sozialwissenschaftlicher Datenerhebung,” “Entscheidende Daten” symposium, Meersburg, Germany, May 9, 2014

“Is the Phone Mightier than the Sword? Cell Phones and Insurgent Violence in Iraq,” Essex Summer School in Social Science Data Analysis, University of Essex, UK, July 30, 2014

“The Violence We Do Not See: Reporting Bias in Conflict Event Data” (with Lansing B. Lee), Jr., seminar in Global Politics, University of Virginia, USA, September 1, 2014

Roland Weierstall:

“Posttraumatic Stress Disorder and Appetitive Aggression – Their Interrelation and the Role of War Events and Family Violence - The example of BURUNDI” (with Nandi, C., Crombach, A., Elbert, T.), University of Basel, Switzerland, May 27, 2014

Martin Welz:

“Die Afrikanische Friedens- und Sicherheitsarchitektur,” talk at the Bundesakademie für Sicherheitspolitik (Federal Academy for Security Policy), Berlin, Germany, March 3, 2014

Participation in Workshops, Symposia, Conferences

Francesca Biagioli:

Organization of workshop: “Interactions between Philosophy and the Sciences in the Debate about Spatial Intuition and the Foundations of Geometry,” IMÉRA/The Mediterranean Institute for Advanced Research of the Aix-Marseille University, France, June 27, 2014

Thomas Böttcher:

“17. Steinheimer Gespräche,” Fonds für den Hochschullehrer-Nachwuchs, Bad Homburg, Germany, June 5-7, 2014

Emmy Noether annual meeting, Potsdam, Germany, July 18-20, 2014

Joanna Chojnicka:

“Contesting Hegemonic Gender and Sexuality Discourses on the Web: Comparative Positive Discourse Analysis of English, Latvian and Polish Websites,” international conference: Why Discourse matters?, Goethe Universität, Frankfurt am Main, Germany, April 25-26, 2014

“LGBT Discourses on Discrimination and Human Rights in Lithuania, Latvia and Poland: A Comparative Analysis,” 23rd World congress of political science, panel on the Theory and Practice of Human Rights Throughout Regions, Montreal, Canada, July 19-24, 2014

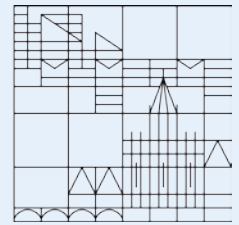
María Cruz Berrocal:

Visiting Scholar Program National Taiwan Normal University award, May 2014

“Early Modern Colonialism in the Asia-Pacific Region,” organization of session (with

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Staniforth, M), APCONF Honolulu, Hawaii, USA, May 12-16, 2014

“Long-term Settlement Patterns in Moturiki, Lomaiviti Group, Central Fiji Islands,” international symposium on Language, History, and Society: Global Perspectives on the Asia-pacific Region, Taipei, Taiwan, May 26, 2014

Martin Dege:

„Istanbul Seminars,” Istanbul, Turkey, May 15-20, 2014

“Sommerakademie der Studienstiftung des deutschen Volkes,” Leysin, Switzerland, August 10-24, 2014

Pantelis E. Eleftheriou:

Semester program in “Model Theory, Arithmetic Geometry and Number Theory,” Mathematical Sciences Research Institute, University of California, Berkeley, USA, April 8-May 20, 2014

Workshop on “Model Theory in Geometry and Arithmetic,” Mathematical Sciences Research Institute, University of California, Berkeley, USA, May 12-16, 2014

“Logic Colloquium 2014,” Vienna University of Technology, Austria, July 14-19, 2014

Philip Leifeld:

“Does Political Representation through Parties Decrease Voters' Acceptance of Decisions?” (with Carlos Kurschilgen, Emanuel Towfigh, Andreas Glöckner, Sebastian Goerg, Aniol Llorente-Saguer and Sophie Bade), poster presented (by co-author) at the NYU CESS 7th Annual Experimental Political Science conference, New York University, Center for Experimental Social Science, New York City, USA, March 7, 2014

“National Parliamentary Coordination after Lisbon: A Network Approach” (with Thomas Malang), paper presented (by co-author) at the Annual conference of the Midwest Political

Science Association (MPSA), Chicago, USA, April 5, 2014

“TERGM vs. SIENA” (with Skyler J. Cranmer), paper presented (by co-author) at the 7th Political Networks conference, McGill University, Montreal, Canada, May 30, 2014

“National Parliamentary Coordination after Lisbon: A Network Approach” (with Thomas Malang), paper presented at the 1st European conference on Social Networks (EUSN), Barcelona, Spain, July 3, 2014

“National Parliamentary Coordination after Lisbon: A Network Approach” (with Thomas Malang), paper presented at the Annual meeting of the American Political Science Association (APSA), Washington D.C., USA, August 28-31, 2014

“Collective Action inside Lobbying Coalitions: A Network Analysis using Two-Mode Exponential Random Graph Models” (with Michael T. Heaney), paper presented (by co-author) at the Annual meeting of the American Political Science Association (APSA), Washington D.C., USA, August 28-31, 2014

Bernard Lepetit:

2nd RNA-seq workshop, Düsseldorf, Germany, March 5-7, 2014

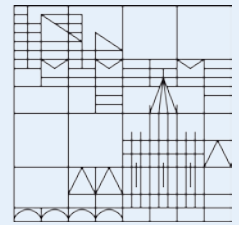
Marilena Manea:

Participation in the exhibition “Medicine in Baden-Württemberg: Scientific Excellence made in Germany,” organized within the 64th Lindau Nobel Laureate Meeting dedicated to Physiology or Medicine, presentation of the research project “Peptide-based Anticancer Drug Delivery Systems,” July 2014

Gianluca Rastelli:

“Discovering the Quantum World: Latest Advances in Quantum Mechanics,” seminar for the Long Science Night, University of Konstanz, Germany, May 17, 2014,

“Universal Phase Diagram of One-dimensional Quantum Rotor Model with



Anomalous Dissipation,” poster presented at the workshop Spin-based Quantum Information Processing, organized by the SBF 767 of the University of Konstanz, Steigenberger Inselhotel Konstanz, Germany, August 20, 2014

“Ground State Cooling of a Carbon Nano-mechanical Resonator using Spin-polarized Current” (co-authors P. Stadler, and W. Belzig), poster presented at the workshop Spin-based Quantum Information Processing, organized by the SBF 767 of the University of Konstanz, Steigenberger Inselhotel Konstanz, Germany, August 20, 2014

“Quantum Phase-Slip Junction Under Microwave Irradiation” (co-authors: A. Di Marco, and F. Hekking), poster presented at the mini-colloquia in Condensed Matter entitled Mesoscopic Superconductivity and Quantum Circuits, CMD25-JMC14, Paris, France, August 24-29, 2014

Tanja Rinker:

Organization of CUNY-KUNI workshop: “Development and Analysis of Neural Systems Supporting Language (DANSSL): Perspectives from Monolingual, Bilingual and Impaired Acquisition,” Konstanz, Germany, July 4-5, 2014

Nina Schneider:

Latin American Studies Association (LASA) conference (together with Ann R. Schneider and Rebecca J. Atencio), 1. Panel Title: “The Brazilian Dictatorship and Its Reckoning,” and 2. Panel Title: “Cultural Memory Work in Latin American Reckonings with the Post-authoritarian Past,” Chicago, USA, May 2014

Minmin Shen:

“Interactive Framework for Insect Tracking with Active Learning” (with Wei Huang, Paul Szyszka, C. Giovanni Galizia, Dorit Merhof), IEEE International conference on Pattern Recognition (ICPR), Stockholm, Sweden, August 24-28, 2014

Ulrich Sieberer:

“When Do Single Member Districts Increase Voting Dissent under Mixed Electoral Systems? A Longitudinal Study of Voting Behavior in the German Bundestag, 1949-2013,” paper presented at the General conference of the ECPR Standing Group on Parliaments, Vienna, Austria, June 28-28, 2014

“Who Benefits From Parliamentary Rule Change? Majority and Minority Rights in Western European Parliaments,” talk at the workshop Parliamentary Scrutiny, University of Heidelberg, Germany, July 11-12, 2014

“Who Benefits From Parliamentary Rule Change? Majority and Minority Rights in Western European Parliaments,” paper presented at the Annual meeting of the American Political Science Association, Washington, D.C., USA, August 28-31, 2014

“When Do Single Member Districts Increase Voting Dissent under Mixed Electoral Systems? A Longitudinal Study of Voting Behavior in the German Bundestag, 1949-2013,” paper presented at the Annual meeting of the American Political Science Association, Washington, D.C., USA, August 28-31, 2014

Jennifer Sparr:

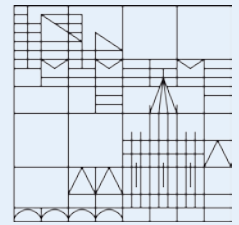
“Effective Leadership for Innovation and Change: New Insights on Leading Teams and Individuals” (with Rosing, K.), Chair of Symposium at the 49th Congress of the DGPs (Deutsche Gesellschaft für Psychologie), Bochum, Germany, September 2014

Gudrun Sproesser:

Advanced course on Dietary Assessment Methods, Aberdeen, UK, May 13-15, 2014

Symposium “A Cue to Eating: Social and Biological Influences on Eating Behavior,” 28th Conference of the European Health Psychology Society, Innsbruck, Austria, August 26-30, 2014

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Workshop Science Slam, Bochum, Germany,
September 6-7, 2014

49th Congress of the Deutsche Gesellschaft
für Psychologie, Bochum, Germany,
September 21-25, 2014

Edina Szöcsik:

Convention of the CEEISA, conference, Cluj,
Romania, June 12-14, 2014

General Conference of the EPSA, Edinburgh,
UK, June 19-21, 2014

"Electoral Competition in the Habsburg
Empire," scientific retreat, Zukunftskolleg,
University of Konstanz, Germany, July 21-22,
2014

"General Conference of the ECPR," Glasgow,
UK, September 3-6, 2014

Margaret Thomas:

"Model Theory in Geometry and Arithmetic,"
workshop, The Mathematical Sciences
Research Institute, Berkeley, USA, May 12-
16, 2014

"Recent Developments in the Applications of
Model Theory to Algebraic, Analytic and
Diophantine Geometry," workshop,
International Centre for Mathematical
Sciences, Edinburgh, UK, July 7-11, 2014

Sandeep Verma:

49th Bürgenstock Meeting, Brunnen,
Switzerland, May 4-9, 2014
Indo-German Frontiers of Engineering - 2014,
Potsdam, Germany, May 22-24, 2014

Roland Weierstall:

"Reciprocal Relations Between Stress, Socio-
Economic Risk Factors and Psychological
Well-Being in the German Socio-Economic
Panel (SOEP)" (with Helms, E., Richter, D.,
Wagner, GG.), 11th International German
Socio-Economic Panel User conference, DIW
Berlin and Hertie School of Governance,
Berlin, Germany, June 30, 2014

Contributing to an International University Debate, Media Presence

Zukunftskolleg as Model for German Universities

In its latest report "Empfehlungen zu
Karrierezielen und -wegen an Universitäten"
("Recommendations for Career Objectives
and Paths at Universities"), the German
Council of Science and Humanities
(Wissenschaftsrat) names the Zukunftskolleg
as a successful example for promoting young
researchers. The report states (on page 119)
that an important element of the
Zukunftskolleg is the selection of Fellows by a
central recruitment committee consisting of
internal and external scientists representing all
departments of the university.

Read more here:

<http://www.wissenschaftsrat.de/download/archiv/4009-14.pdf>

María Cruz Berrocal:

Interview and news in Public TV Taiwan about
her excavations in Hoping Dao, Keelung,
Taiwan, May 2014

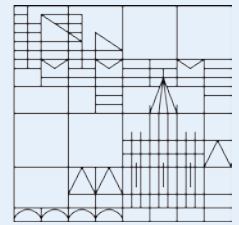
Thomas Böttcher:

Article in Bio-Pro (German/English):
<http://www.bio-pro.de/magazin/index.html?lang=de&artikelid=/artikel/09953/index.html>

Article in Uni'kon 55:

<http://www.uni-konstanz.de/broschueren/unikon/55/>

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The radio station Deutschlandfunk conducted and published an interview with **Giovanni Galizia** entitled “Fruchtfliegen riechen Brustkrebs.” He talks about his research on the potential of utilizing the fruit fly's olfactory system to detect cancer cells. The original interview can be downloaded here:

http://www.deutschlandfunk.de/tierisches-diagnoseverfahren-fruchtfliegen-riechen.676.de.html?dram:article_id=285622

Zhongbao Jian met Germany's Federal President Joachim Gauck and the president of the Alexander von Humboldt-Foundation Helmut Schwarz during a meeting of Humboldt scholars in Berlin. Zhongbao Jian has held an Alexander von Humboldt Fellowship since July 2013.



All ZIF Marie Curie Fellows at the Zukunftskolleg were invited to the EU-Russia Researchers' Mobility Forum which took place on September 25, 2014 in Brussels. This event was dedicated to researchers taking part in projects funded by the Marie Skłodowska-Curie program. Marie Curie researchers were given a chance to present their project by submitting a poster and, if they so chose, by taking part in an elevator pitch. An elevator pitch is a dynamic way to present one's work – a short speech presenting the essence of a research project, its goals and accomplishments in three minutes at most. It

is an exercise in clear and efficient communication, where the speaker's mission is to simultaneously inform and intrigue the audience. In short, the forum was a great opportunity for the participants to communicate their research, develop new scientific collaborations and further exploit their potential as Marie Curie Fellows.

Alumnus Georg Jochum Supports Decision in Ecclestone Trial

On August 5, a Munich court and prosecutors agreed to drop the charges against Formula 1 chief Bernie Ecclestone. To put an end to his bribery trial he had to pay a 100 million dollar fine and thus did not have to go to jail. Ecclestone's lawyer denied that the payment was a circumvention of justice and assured that it is common for settlements to be made in cases such as these. “It is not a deal. It has nothing to do with purchasing freedom,” he insisted. Zukunftskolleg Alumnus Georg Jochum, who holds the Chair for Public Law, Tax Law and European Law at the Zeppelin University Friedrichshafen, agreed. In the local newspaper Südkurier he stated: “Von einem Freikaufen kann nicht die Rede sein” (He did not purchase his freedom in any respect).

Read more here:

http://www.suedkurier.de/nachrichten/wirtschaft/the_mensk/info/Von-einem-Freikaufen-kann-nicht-die-Rede-sein;art1015328,7154043

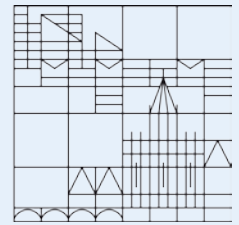
Tanja Rinker:

One press release by the City of Villingen-Schwenningen and one article in the local newspaper Südkurier concerning the Center for Multilingualism were published:

<http://www.villingen-schwenningen.de/verwaltung/presse/pressemitteilungen-detailansicht/article/sprachkompetenz-als-schluesel-zum-erfolg.html>

<http://www.suedkurier.de/region/kreis-konstanz/konstanz/Jede-Sprache-ist-ein-Gewinn;art372448,6733432>

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Gudrun Sproesser:

Interview for “Spektrum Wissenschaft,” March 2014

Article “Feed your feelings” in “Shape” magazine, April 2014

Interview for “Brigitte” magazine, June 2014

Nils B. Weidmann:

“Covering only a part of war,” Blog Post in Monkey Cage Blog, Washington Post, 27 May 2014:

<http://www.washingtonpost.com/blogs/monkey-cage/wp/2014/05/27/covering-only-a-part-of-war/>

Nils Weidmann as one of the “TOP 40 Scientists under 40” in Germany, according to CAPITAL magazine, 7/2014:

<http://www.capital.de/dasmagazin/deutschlands-junge-elite.html> (full article only in print issue)

Roland Weierstall:

Interview for the science section of the Austrian news magazine “Profil,” July 2014

Zukunftskolleg and took place on May 6 on the university campus.

More than 60 high school students from Konstanz and the nearby town of Stockach gained an insight not only into the world of pictures – living and still – but also into university life. After Michael Schwarze, Professor of Romanic Literature, had given a lecture on the pluralization effects of the Italian Renaissance and the main developments of the literature of the time, students headed off to workshops where they worked in groups and were asked to contribute their own ideas and thoughts. Victor Konitzer talked about how painters of the early Renaissance constructed spaces before students could make use of their newly acquired knowledge, analyzing fine art from different centuries – including comics. Julia Boll, Marie Curie Post-doctoral Fellow at the Zukunftskolleg, and her students prepared a short play in line with the principles of the “Commedia dell’arte,” using the roles and characters this form of Italian theatre provides.

Latest Collaborations

Hegau Bodensee Seminar & Center of Excellence “Cultural Foundations of Social Integration”: University Day

Getting the Picture

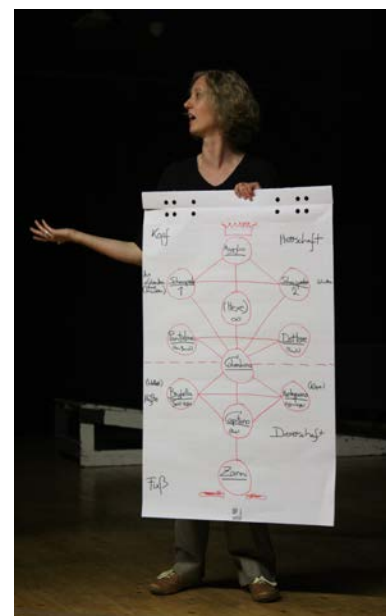
At this year’s University Day in the Humanities, high school students learned about Italian Art – and what it is like to be a university student, May 6, 2014

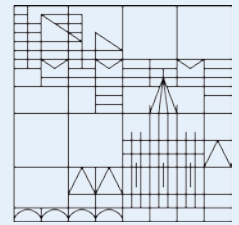
Fine Arts and the theatre of Early Modern Italy were the focus of the 2014 University Day in the Humanities. The event, a cooperation between the University of Konstanz and the Hegau-Bodensee-Seminar, was organized by the Center of Excellence “Cultural Foundations of Social Integration” and the

“University Day is a great opportunity to introduce the university to young people”, Julia Boll says about why she supports the event with a workshop.

“They learn that studying at a university means a lot of freedom and possibilities to choose from. We also show

them that group work plays a big part, and students get a feeling for how much and how





fast they need to learn. Theatre of course is great for that since it is very hands-on.”



Giovanni Galizia expressed how important the cooperation between school and university is: “The university is all about what we don’t know yet, it is a ‘temple of the unknown.’ It is in school that we practice the curiosity that we need in university.”

People

Fellows

New ZIF Marie Curie 2-year Postdoctoral Fellows:

- Unai Atxitia Macizo (Physics)
- Francesca Biagiolo (Philosophy)
- Monica Class (Literature)
- Maité Crespo García (Psychology)
- Martin Dege (Literature)
- Barbara Hausmair (History and Sociology)
- Wolf Hütteroth (Biology)
- Elliott Lash (Linguistics)
- Antonio Rotolo (History and Sociology)
- Sebastian Schutte (Politics and Public Administration)

New ZuKo 5-year Research Fellows:

- Brendan Balcerak Jackson (Philosophy)
- Denis Gebauer (Chemistry)
- Michael Pester (Biology)

New ZIF Marie Curie 5-year Research Fellows:

- Thomas Böttcher (Chemistry)

Fellowships ending in summer term 2014:

- Gunhild Berg (Literature)
- Helen Gunter (Biology)
- Tamir Hassan (Computer and Information Science)
- Attila Tanyi (Philosophy)
- Thomas Voigtmann
- Dominik Wöll (Chemistry)

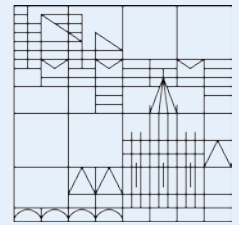
Senior Fellows and Mentors present in summer term 2014

- Irene Heim (Linguistics), May 18 until June 6
- Marcia Esparza (History and Sociology), June 1 until July 31
- David Sobel (Philosophy), June 1 until August 31
- Valerie Shafer (Linguistics), June 16 until July 24
- Alex Byrne (Philosophy), June 22 until August 3
- Giora Hon (Philosophy), July 1 until September 30
- Leonard Glazman (Physics), August-September

New Associate Fellows

- Raul Acosta (History and Sociology)
- Federica Basaglia (Philosophy)
- Tobias Henschen (Philosophy)

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- Michael Pokojovy (Mathematics and Statistics)
- Marie Revellio (Literature)
- Jennifer Sparr (Politics and Public Administration)
- Lisa Töbel (Psychology)
- Michael Weiss (Biology)

<http://skapis.eu/2014/04/gendera-ideologija-polija/>
“Tęcza nad Bałtykiem” (“Rainbow over the Baltics”), article on the situation of LGBT in the Baltic States, in: *Replika* (50), a Polish LGBTQ magazine, July 2014

Martin Dege:

„Polyamory Gel(i)ebte Mehrfachbeziehungen aus kulturwissenschaftlicher Perspektive“ (with Mattes, Peter), in: special issue of *Journal für Psychologie*, volume 22, issue 1

Pantelis E. Eleftheriou:

“Interpretable Groups are Definable” (with Ya'acov Peterzil, and Janak Ramakrishnan), in: *Journal of Mathematical Logic*, vol. 14, no. 01, June 2014

Denis Gebauer:

“Pre-Nucleation Clusters as Solute Precursors in Crystallization” (with M. Kellermeier, J. D. Gale, L. Bergström, H. Cölfen), in: *Chem. Soc. Rev.* 2014, 43 (7), p. 2348-2371, DOI: 10.1039/C3CS60451A, print publication on April 7, 2014, first published online on January 23, 2014:

<http://dx.doi.org/10.1039/C3CS60451A>

“Sweet on Biomineralization: Effects of Carbohydrates on the Early Stages of Calcium Carbonate Crystallization” (with A. Rao, J. K. Berg, M. Kellermeier), in: *Eur. J. Mineral.*, DOI: 10.1127/0935-1221/2014/0026-2379, first published online March 18, 2014: <http://dx.doi.org/10.1127/0935-1221/2014/0026-2379>

Barbara Hausmair:

“Gender - Alter - Lebensverlauf. Perspektiven auf alters- und geschlechtsbezogene Identitäten im Mittelalter,” in: *”Mittelalterarchäologie in Österreich. Eine Bilanz (Beiträge zur Mittelalterarchäologie in Österreich 29/2013)”*, edited by Nikolaus Hofer, Thomas Kühtreiber and Claudia Theune, p. 273-279, Vienna: ÖGM

Publications

Francesca Biagioli:

“Hermann Cohen and Alois Riehl on Geometrical Empiricism,” in: *HOPOS: The Journal of the International Society for the History of Philosophy of Science* 4, p. 83-105

“What Does It Mean That ‘Space Can Be Transcendental Without the Axioms Being So’? Helmholtz’s Claim in Context,” in: *Journal for General Philosophy of Science* 45, p. 1-21

Thomas Böttcher:

“Facing the Challenge of Antibiotic Resistance,” *GIT Labor Fachzeitschrift* (Wiley)

Daniele Brida:

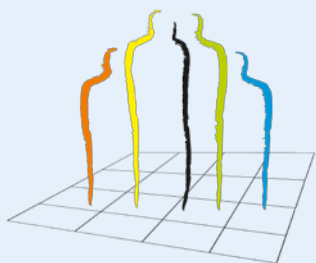
In collaboration with German, Italian and Spanish researchers, Daniele Brida worked on the fundamental physical mechanisms that lead to charge generation in organic photovoltaic solar cells (trivially they can also be called “plastic solar cells”). Read more in the following paper:

<http://www.sciencemag.org/content/344/6187/1001.full>

Joanna Chojnicka:

“Gendera ideologija Polijā?”, article on gender ideology controversy in Poland, published online on April 22, 2014 at the Latvian website for LGBT youth:

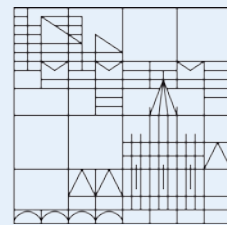
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Bernard Lepetit:

"Synthetic Polyester from Algae Oil" (with Roesle P., Stempfle F., Hess S. K., Zimmerer J., Río Bártulos C., Eckert A., Kroth P. G., Mecking S.), in: *Angewandte Chemie* 2014, 126, p. 6918-6922:

<http://onlinelibrary.wiley.com/doi/10.1002/anie.201403991/full>

"Light Signaling in Photosynthetic Eukaryotes with 'Green' and 'Red' Chloroplasts" (with Dietzel L.), in: *Environmental and Experimental Botany*, in press, DOI: 10.1016/j.envexpbot.2014.07.007:

<http://www.sciencedirect.com/science/article/pii/S098847214001786>

"Biodiversity of NPQ" (with Goss R.), in: *Journal of Plant Physiology*, in press, DOI: 10.1016/j.jplph.2014.03.004:

<http://www.sciencedirect.com/science/article/pii/S0176161714000686>

"Growth Form Defines Physiological Photoprotective Capacity in Intertidal Benthic Diatoms" (with Lavaud J., Barnett A., Méléder V., Blommaert L., Gaudin P., Vyverman W., Sabbe K., Dupuy C.), in: *The ISME Journal*, in press, DOI:10.1038/ismej.2014.105:

<http://www.nature.com/ismej/journal/vaop/ncurrent/full/ismej2014105a.html>

Marilena Manea:

"Targeting Hormonal Signaling Pathways in Castration Resistant Prostate Cancer" (with Marelli MM, Moretti RM, Maggi R, Marzagalli M, Limonta P.), in: *Recent Pat Anticancer Drug Discov.*, 2014;9(3), p. 267-285, <http://www.eurekaselect.com/122270/article>

"Protein Expression Profile of HT-29 Human Colon Cancer Cells after Treatment with a Cytotoxic Daunorubicin-GnRH-III Derivative Bioconjugate" (with Schreier VN, Pethő L, Orbán E, Marquardt A, Petre BA, Mező G), in: *PLoS One*, 2014;9(4):e94041, DOI: 10.1371/journal.pone.0094041,

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0094041>

Beatriz Puente-Ballesteros:

"A Biographical Study of Bernard Rhodes S. J. (1646-1715), Physician, Surgeon and Insignis Pharmacopeus: Deciphering Medical Itineraries in Qing China," in: Catherine JAMI (ed.): *Individual Itineraries and the Circulation of Scientific and Technical Knowledge in Early Modern China (16th-20th centuries)*, Paris: Institut des Hautes Études Chinoises, August 2014

“康熙帝的“病人”安多：

对于清宫配用底野迦的个案研究. *Xin Shixue 新史学 (New History Journal)*, revised Chinese translation of the following article: Beatriz Puente-Ballesteros: "Antoine Thomas S.J. as a 'Patient' of the Kangxi Emperor (r. 1662-1722): A Case Study on the Appropriation of Theriac at the Imperial Court," translated by Dong Shaoxin 董少新, Professor at the National Institute for Advanced Humanistic Studies of Fudan University, Shanghai, China, August 2014

Gianluca Rastelli:

"Ground State Cooling of a Carbon Nanomechanical Resonator by Spin-polarized Current" (with P. Stadler, and W. Belzig), in: *Phys. Rev. Lett.* 113, 047201 (2014), published on July 21, 2014:

<http://journals.aps.org/prl/abstract/10.1103/PhysRevLett.113.047201>

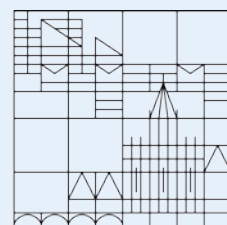
Tanja Rinker:

"PROBIMUC – A Program for Bilingual and Multilingual Children – Ein Sprachförderprogramm" (with Festman, J.), in: *Sprachförderung und Sprachtherapie in Schule und Praxis*, 1, p. 45-54, 2014

"Kinder mit Spezifischer Sprachentwicklungsstörung: Elektrophysiologische und pädaudiologische Befunde" (with Hartmann, K. Smith, E., Reiter, R., Alku P., Kiefer, M., & Brosch, S.), in: *Laryngorhinootologie, E First*: DOI: 10.1055/s-0033-1363691, 2014

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Tanja Rinker & Margarita Stolarova:

In an interdisciplinary project funded by the Zukunftskolleg, Margarita Stolarova and Tanja Rinker together with their students Corinna Wolf and Aenne Briemann could demonstrate how reliability and agreement of ratings need to be analyzed and reported in order to prevent misinterpretation of results in clinical and educational research. They published a methodological paper that deals with widespread shortcomings in assessing inter-rater agreement and reliability, common in many disciplines, such as education, linguistics and to a lesser degree in psychology. It is the first of two papers summarizing the results of the interdisciplinary project entitled “Language Acquisition in the Context of Early Non-parental Care and Multilingualism.” It has been published in an open access journal and is thus freely accessible under:

<http://journal.frontiersin.org/Journal/10.3389/fpsyg.2014.00509/full>

“How to Assess and Compare Inter-rater Reliability, Agreement and Correlation of Ratings: An Exemplary Analysis of Mother-Father and Parent-Teacher Expressive Vocabulary Rating Pairs” (with Wolf C. and Briemann A.), in: *Frontiers in Quantitative Psychology and Measurement*, 5:509, doi: 10.3389/fpsyg.2014.00509, 2014

Nina Schneider:

“Brazilian Propaganda: Legitimizing an Authoritarian Regime,” Gainesville: University Press of Florida, 2014

“What makes a State Apology Authoritative? Lessons from Post-authoritarian Brazil,” in: Matthias Thaler, and Mihaela Mihai, (eds.): *Political Apologies: Theory and Practice*, Palgrave Macmillan, 2014

Minmin Shen:

“A Novel Marker-less Lung Tumor Localization Strategy on Low-rank Fluoroscopic Images with Similarity Learning” (with Wei Huang, Jing Li, Peng Zhang, Min Wan, Can Fang), in:

Multimedia Tools and Applications, 2014

Ulrich Sieberer: “Parliamentary Rules and Procedures” (with Wolfgang C. Müller), in: *The Oxford Handbook of Legislative Studies*, edited by Shane Martin, Thomas Saalfeld and Kaare W. Strom, p. 311-331, Oxford: Oxford University Press

Julián Torres-Dowdall:

“Differential Predation on Color Morphs of Nicaraguan Crater Lake Midas Cichlid Fish: Implications for the Maintenance of Gold-normal Polymorphism,” (with Machado-Schiaffino G., Kautt A.F., Kusche H., Meyer A.), in: *Biological Journal of the Linnean Society* 2014, 112: p. 123-131

“Parallelism Isn’t Perfect: Could Disease and Flooding Drive a Life-History Anomaly in Trinidadian Guppies?” (with Fitzpatrick S.W., Reznick D.N., Ghalambor C.K., Funk C.), in: *The American Naturalist* 2014, 183: p. 290-300

Sandeep Verma:

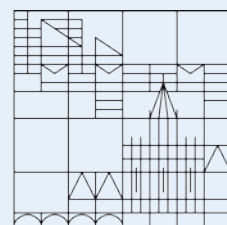
“Crystallographic Studies of Modified 2-aminopurine Nucleobase with Transition Metal Ions” (with Mohapatra, B.), in: *Proc. Ind. Acad. Sci.* 2014, 84, p. 261-268

“Label-free, Optical Sensing of the Supramolecular Assembly into Fibrils of a Dityryptophan-DNA Hybrid” (with Gour, N., Nixon-Abraham, J., Castillo, A., Chami, M., Vebert, C.), in: *Chem. Commun.* 2014, 50, p. 6863-6865

“Targeting Microtubules by Metal-carbene Complexes Built around a Rare Purine Tautomer Platform” (with Khanna, S., Jana, B., Saha, A., Kurkute, P., Ghosh, S.), in: *Dalton Trans.* 2014, 43, p. 9838-9842

“Crystal Engineering with a Purine Rare Tautomer: Structures and Luminescence Properties” (with Khanna, S.), in: *CrystEngComm* 2014, 16, p. 6680-6687

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“Evolution of an Adenine-copper Cluster to a Highly Porous Cuboidal Framework: Solution Phase Ripening and Gas Adsorption Properties” (with Venkatesh, V., Pachfule, P., Banerjee, R.), in: Chem. Eur. J. 2014 (DOI: 10.1002/chem.201403115)

Nils B. Weidmann:

“Using Machine-coded Event Data for the Micro-level Study of Political Violence” (with Jesse Hammond), in: Research and Politics 1(2)

“On the Accuracy of Media-based Conflict Event Data”, Journal of Conflict Resolution, published online:

<http://dx.doi.org/10.1177/0022002714530431>

“Making Uncertainty Explicit: Separating Reports and Events in the Coding of Violence and Contention” (with Espen Geelmuyden Rød), in: Journal of Peace Research, published online:

<http://dx.doi.org/10.1177/0022343314523807>

Roland Weierstall:

“The Thrill of Loving a Dominant Partner: Relationships Between Preference for a Dominant Mate, Sensation Seeking and Trait Anxiety” (with Giebel, G., Moran, J., Schawohl, A.), in: Personal Relationships

Martin Welz:

“Empty Acronyms: Why the Central African Republic Has Many Peacekeepers, But No Peace” (with Angela Meyer), in: Foreign Affairs Online, published July 24, 2014:

http://www.foreignaffairs.com/print/138767.**

“A 'Culture of Conservatism': How and Why African Union Member States Obstruct the Deepening of Integration,” in: Strategic Review for Southern Africa, vol 36/1, 2014, pp. 4-24

“The UN and AU in Mali and Beyond, a Shotgun Wedding?” (with Thomas G. Weiss), in: International Affairs 90/4, 2014, pp. 889–905

Grants, Approvals and Prizes

Two Fellows from philosophy, **Magdalena Balcerak Jackson** and **Julia Langkau**, were successful in applying for funding for a Colloquium on “Imagination and Fiction.” The German Association of Analytic Philosophy (GAP) has selected the event, which will bring together philosophers working on the imagination and our understanding of fiction, as one of the few official colloquia at the association’s next international meeting in Osnabrück in 2015.

Thomas Böttcher:

Young Scholar Fund (YSF), 10,000 euros, University of Konstanz, Germany, March 2014

Liebig Fellowship of the FCI (Fonds der Chemischen Industrie), 5,000 euros, March 2014

Emmy Noether Fellowship (DFG), 1.68 million euros, project: “Chemical Strategies Toward Bacterial Communication and Coordinated Population Behavior”, June 2014

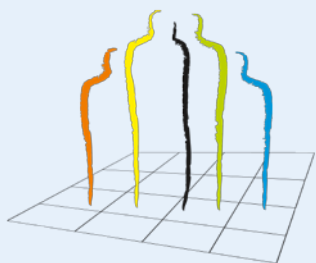
Game inventor and Zukunftskolleg Alumnus **Steffen Bogen** was awarded the “Spiel des Jahres 2014” (Game of the Year 2014) for “Camel Up” – a game for the whole family that is easy to learn and in which the players have to bet who wins. It is already the second time that Steffen Bogen has won the award: in 2012 for his game “Schnappt Hubi!”.

Read and see more at:

<http://www.faz.net/aktuell/gesellschaft/spiel-des-jahres-kamele-machen-das-rennen-13045456.html> and

<http://www.swr.de/landesschau-bw/konstanz-der-spiele-erfinder/-/id=122182/did=14014060/nid=122182/1wr66o8/in.dex.html>

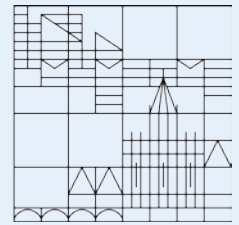
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Pantelis E. Eleftheriou:

DFG Research grant, 161,900 euros, project: “Groups Definable in Tame Expansions of O-Minimal Structures and Related Problems”, University of Konstanz, Germany

Roxana Halbleib’s application to the WIN-Kolleg of the Heidelberg Academy of Sciences and Humanities was granted. Her project “Analyzing, Measuring and Forecasting Financial Risks by Means of High-Frequency Data” will be funded for 3 years, starting in June 2014.

Barbara Hausmair received this year's Grete-Mostny Dissertation Award for her dissertation at the University of Vienna. The price was awarded by the university’s Faculty of Historical and Cultural Studies, marking outstanding doctoral theses that expand the current state of research with both profoundness and innovative strength.

Philip Leifeld:

Award for the Best Paper of an Early Career Scholar, 500 euros, paper: “National Parliamentary Coordination after Lisbon: A Network Approach” (joint work with Thomas Malang), 1st European Conference on Social Networks (EUSN), Barcelona, Spain, July 3, 2014

International Short Visit Grant, CHF 4,700, project: “Self-Reinforcing Recruitment Processes in the Millennium Ecosystem Assessment,” Swiss National Science Foundation (SNF), August-September 2014

Mentorship Program of the Zukunftskolleg, 4,995.60 euros, project: “Implementation, Adjustment, and Application of Extensions of Exponential Random Graph Models (XERGM),” Mentor: Prof. Skyler J. Cranmer, Department of Political Science, Ohio State University, Columbus, USA

Michael Pester:

Marie Curie Actions - Career Integration Grant, 100,000 euros, project title: “Wetland-EcoSysBio”

Emmy Noether Group Leader and Zukunftskolleg Research Fellow **Andreas Thum** was accepted into the international guest researchers program of the Janelia Farm Research Campus, which is part of the Howard Hughes Medical Institute (HHMI) in Washington, D.C., USA. Andreas Thum’s project about the perception and processing of sensory information and its influence on behavior in *Drosophila* larvae is supported with a grant of USD 100,000.

Ulrich Sieberer:

New research grant, approx. 11,500 euros, project: “Die Politik des Ressortzuschnitts (The Politics of Ministerial Jurisdictions),” funded by the Young Scholar Fund at the University of Konstanz, Germany, July 2014-December 2015

Gudrun Sproesser:

Conference grant, 895 euros, for 28th Conference of the European Health Psychology Society, Innsbruck, Austria, funded by the German Academic Exchange Service

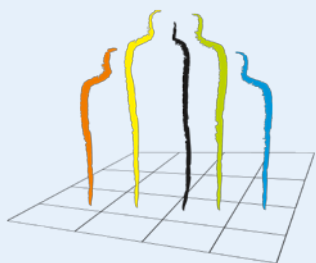
Sandeep Verma:

Ranbaxy Research Award in Pharmaceutical Sciences, New Delhi, March 22, 2014

Center for Excellence in Chemical Biology, amount: 69,000,000 INR (approx. 1 million euros), Ministry of Human Resource Development, Government of India, India, 2014-2019

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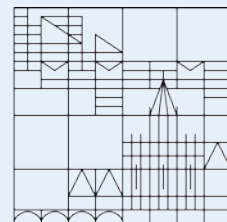
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Teaching

Francesca Biagioli:

„La prospettiva storica e l'a priori relativizzato nella filosofia della scienza di Michael Friedman,“ 20-hour seminar, Università degli Studi di Milano, Facoltà di Studi umanistici, Italy

Martin Dege:

„Google and the Shitting Duck,“ seminar ,Sommerakademie der Studienstiftung des deutschen Volkes, Leysin, Switzerland, August 10-24, 2014

„The shitting duck – mechanization, magic and socio-technical systems,“ advanced course, University of Konstanz, summer term 2014

Philip Leifeld:

„POLNET+ Statistical Network Models“ (with Skyler J. Cranmer and Volker Schneider), two-day workshop tutorial, University of Konstanz, Germany, June 13-14, 2014

Bernard Lepetit:

„Light Harvesting and Photoprotection in Diatoms,“ lecture held in advanced course “Physiology of Plants,“ University of Konstanz, Germany, June 2014

Marilena Manea:

„Proteome Analysis and Protein Structure,“ advanced course, 4 hours per week, together with Prof. Michael Przybylski, Department of Chemistry, University of Konstanz, Germany, summer term 2014

Michael Pester:

„Limnic Microbiology,“ advanced course with lecture, University of Konstanz, Germany, summer term 2014

Gianluca Rastelli:

4 hours per week, master's physics/ second degree in Physics, Theoretical Physics IK4, Quantum Mechanics, Problem classes + homework corrections, University of Konstanz, Germany, summer term 2014

Tanja Rinker:

„Bilingual Language Development,“ M.A./Teaching Degree seminar, Department of Linguistics, University of Konstanz, Germany

Nina Schneider:

„Authoritarian Latin America Revisited,“ course, University of Konstanz, Germany, summer term 2014

Ulrich Sieberer:

„Die Politik der Exekutive in Deutschland und Europa (Executive Politics in Germany and Europe),“ B.A. seminar, University of Konstanz, Germany, summer term 2014

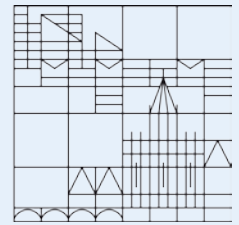
Jennifer Sparr:

„Die Guten, die Schlechten und die Törichtigen: Extrarollenverhalten und kontraproduktives Verhalten in Organisationen,“ master's course in the Department of Politics and Public Administration, University of Konstanz, Germany, summer term 2014

„Effective Leadership for Innovation: A Competitive Advantage,“ master's course in the Department of Politics and Public Administration, University of Konstanz, Germany, summer term 2014

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Gudrun Sproesser:

“Concepts of Health and Illness,” seminar, University of Konstanz, Germany, summer term 2014

“Psychosocial Factors in Health and Disease: Current Research Topics,” seminar, University of Konstanz, Germany, summer term 2014

Edina Szöcsik:

“Ethnic Politics,” master’s course, Charles University in Prague, Czech Republic, 24-28 March 2014

Margaret Thomas:

“Model Theory,” lecture course (together with Dr. Cédric Milliet), Dept. of Mathematics and Statistics, University of Konstanz, Germany, summer term 2014

Julián Torres-Dowdall:

“The Scientific Method and Experimental Design,” lecture (Vertiefungskurs) on “Molecular Evolutionary Biology,” University of Konstanz, Germany, April 30, 2014

“Evolutionary Ecology,” lecture (“Vertiefungskurs”) on “Molecular Evolutionary Biology,” University of Konstanz, Germany, April 30, 2014

Sandeep Verma:

Two courses: “Introduction to Bionanotechnology” and “Chemistry of Drug Design and Metabolism,” Indian Institute of Technology, Kanpur, India, summer term 2014

Nils B. Weidmann:

Undergraduate seminar: “Comparative Perspectives on Authoritarian Regimes,” University of Konstanz, Germany, summer term 2014

Roland Weierstall:

Seminar: “Basiskompetenzen Psychotherapie,” Clinical Psychology, University

of Ulm, Germany, summer term 2014

Seminar: “Introduction into Diagnosis and Classification of Psychological Disorder,” University of Konstanz, Germany, summer term 2014

Martin Welz:

B.A. seminar “Friedensoperationen in globaler Perspektive,” University of Konstanz, Germany, summer term 2014

Careers

Joanna Chojnicka:

Associate Fellowship at the Herder Institute, Marburg, Germany, since April 1, 2014

María Cruz Berrocal:

Member of the editorial Board of “The World Society of Hwandan Society and Culture,” Seoul, Korea, since 2014

Member of the Editorial Board of “Trabajos de Prehistoria,” 2014-2018

Helen Gunter:

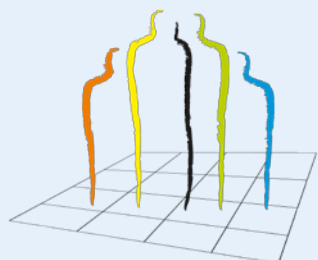
Project Manager (postdoctoral position), Edinburgh Genomics, University of Edinburgh, UK

Philip Leifeld:

Postdoctoral Fellowship, Swiss Federal Institute of Aquatic Science and Technology (Eawag), ETH domain, Zurich, Switzerland, April-September 2014, Host: Prof. Karin M. Ingold

Visiting Scholarship, Program for Society and the Environment (PSE), University of Maryland, College Park, USA, from August 25 to September 29, 2014, Host: Prof. Dana R. Fisher

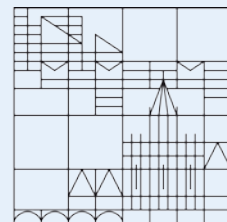
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Daniel Summerer has accepted a Temporary Professorship in the Department of Chemistry at the University of Konstanz. From October 1, 2014 until March 31, 2015, he will be standing in for Prof. Dr. Ulrich Groth in Organic Chemistry with a focus on the chemistry of natural materials, aromatic and heterocyclic compounds. This already is the second time he has been offered this position, the last time being in winter term 2013/14.

Sandeep Verma:

Appointment Adjunct Professor,
Department of Biological Sciences and
Bioengineering, IIT Kanpur, India, July
2014

Klaus von Heusinger:

Appointed as a member of the Linguistic
Studies section of the Academia Europaea

Roland Weierstall:

Licensed as a psychological psycho-
therapist (in cognitive behavior therapy)

Guest lecturer in Clinical Psychology,
University of Ulm, Germany, since summer
term 2014

Dominik Wöll accepted a W1-Junior
Professorship with tenure track at the
Institute for Physical Chemistry at RWTH
Aachen University. He started working
there in June.

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