

AARHUS INSTITUTE OF ADVANCED STUDIES  
**AIAS ANNUAL REPORT**  
2018/19

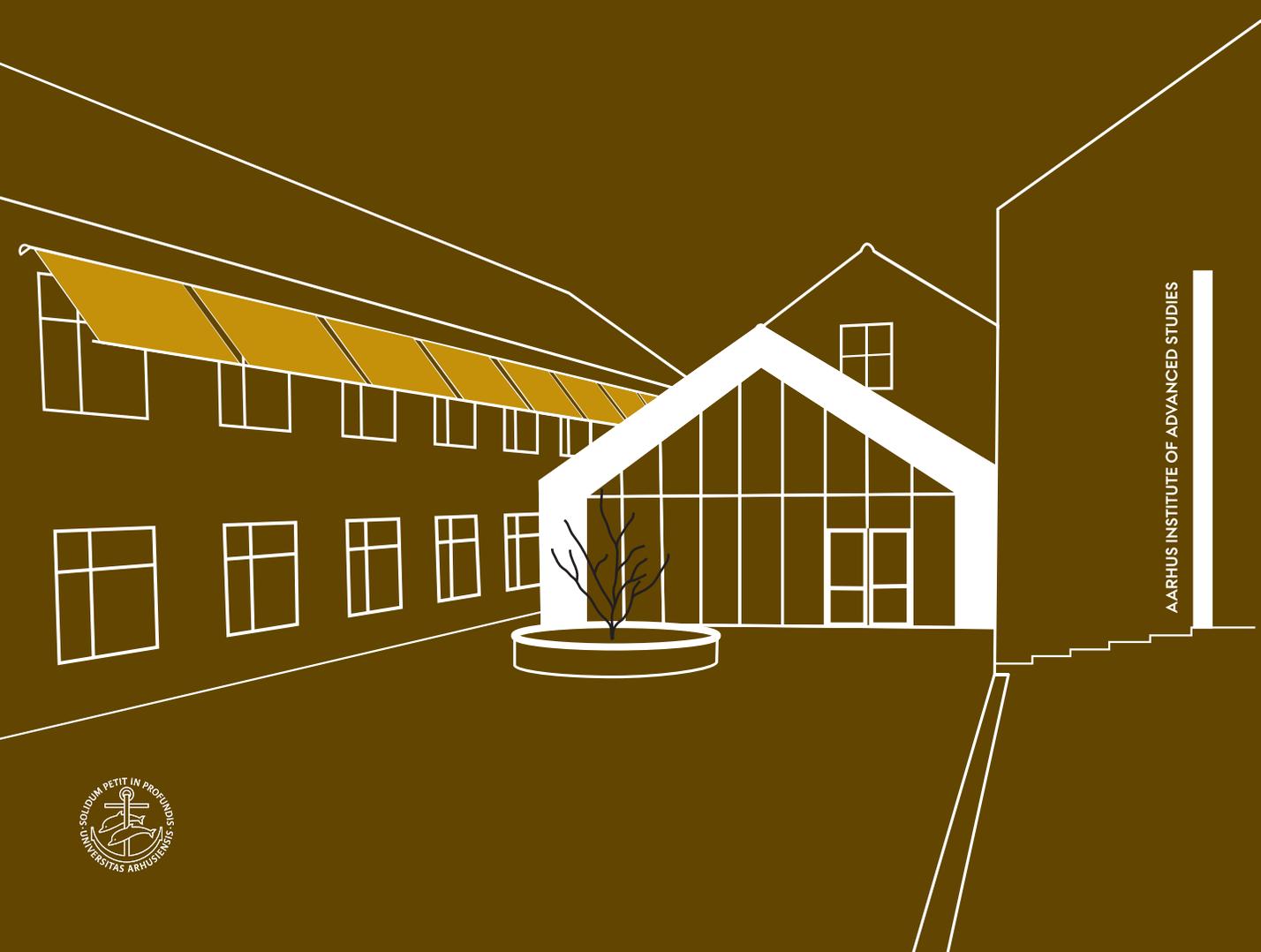




Photo: Melissa Bech Yildirim

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# DIRECTOR'S ACCOUNT OF 2018-2019

The academic year of 2018-2019 has largely been business as usual. This applies to the repeating cycles of welcoming and saying goodbye to fellows, to the dense programme of academic events, at the Institute, with its participants from all over the world, and obviously to the daily life of the Institute encompassing individual research work, and intense exchange between fellows. However, new challenges have taken place too.

As per 1 October 2018 and 1 February 2019, we have welcomed a total of 15 new fellows and carried out our extensive introduction programme. But this year, we have started a new fellowship programme. Whereas the previous five-year programme, running from 2014-2018, was part of the EU's 7th framework programme (FP7), we have now embarked on a new grant under the EU's Horizon 2020 Programme. This grant will run from 2018 to 2022, and is still part of the Marie Skłodowska-Curie initiative. The new EU funding amounts to approx. DKK 36 million. Adding the contributions from Aarhus University (AU) and Aarhus University Research Foundation, the operation of AIAS is thus financially guaranteed through 2022.

## NEW ORGANIZATION OF THE AIAS STAFF

During the autumn of 2018, a reorganization of the AIAS staff has also taken place. Till then, the management team consisted of the AIAS director, a scholar/professor, and an AIAS deputy director with an administrative background. The idea behind this structure was to provide the opportunity for a constructive division of managerial tasks. However, it had gradually become clear that such a structure resulted in a relative deficiency of scholarly skills in the management team. This has been apparent in selection processes, in recruitment, and in international collaboration, not to mention the carrying out of the daily management functions. In the autumn of 2018, we have therefore implemented a new management structure to include a professor in the position of a deputy director, who performs management duties 50% of his working hours as deputy to the AIAS director, whereas the remaining 50% is devoted to pursuing his own research.

Following an open call, this three-year position was filled by Dr Nikolaj T. Zinner from the AU Department of Physics and Astronomy. Zinner has previously held a position (Oct. 2017 - Oct. 2018)

as a Fellow at AIAS, and he took up his management duties at AIAS on 1 January 2019.

So far, this new structure has proved really successful. The scholarly management of AIAS has been markedly strengthened, and at the same time, the total running costs of the administration of AIAS have been reduced.

## LARGE INTERNATIONAL IAS MEETING AT AIAS

AIAS has remained very active in its international collaboration. The Institute is still a member of the steering group of the global network of university-based institutes, UBIAS. In October, 2018, the AIAS director was invited as speaker at the conference, "From New Ideas to Defining a Research Agenda: A new Role for IAS?". The conference was held in Hannover on the initiative of Helga Nowotny (the former ERC President) and Wilhelm Krull (chair of the Volkswagen Stiftung). In addition, AIAS has been represented at IAS-meetings in Paris, Madrid and Bielefeld.

However, the largest event, and second to none, took place, when AIAS hosted the annual meeting in the European IAS network, NetIAS, in April 2019. This included the annual conference of the common European fellowship programme EURIAS. In the course of four days, we thus hosted an extensive programme with about 80 participants, including the leading figures of Europe's most important institutes of advanced study. We had planned the event within the facilities of AIAS to the furthest possible extent, including the more social parts of the event; dinners, lunches, receptions, etc. Everything went very well, not least thanks to an extremely intensive effort on the part of the administrative staff. Consequently, AIAS (and thereby AU) was convincingly presented internationally as an international, ambitious, top-level research environment.

## A THRIVING ACADEMIC LIFE

But most importantly of course, the basis and purpose of it all: The research work carried out patiently and persistently by each fellow, day by day, and with convincing results. Fellows have published to an impressive extent, they have obtained prestigious grants, as well as important positions following their fellowships. Especially worth mentioning is AIAS Fellow Isabelle Torrance as one of the first ever within the faculty of Arts at AU to receive an ERC Consolidator Grant, in the autumn of 2018. Therefore, following her three years from 2016-2019 as an AIAS

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As any parent, leaving my child will of course fill me with a considerable amount of sadness. I am, however, convinced that AIAS will be able to stand on its own feet, owing to its highly professional, ambitious staff, and its ever changing, unfailing cohorts of high-level researchers, from all over the world.



Photo: Morten Kyndrup at Fellows' Monday Lunch, AIAS 2019.  
By: Melissa B. Yildirim.

Fellow, Isabelle Torrance will stay as a professor at AU, where she will be leading her own research group, funded by her ERC grant.

As usual, all through the year, we have had a dense programme of academic conferences and workshops at AIAS, most often organized in cooperation with the academic environments at AU. The most recent examples include, "Music and Artificial Intelligence: Past and Futures, Opportunities and Risks", May 2019 (AIAS Fellow Georgina Born), "Cultural Identity and Transmission in Early Christian Literature", June 2019 (Andrew Faulkner), "Gendered Temporalities - Anthropological Perspectives", August 2019 (Adeline Masquelier), and this September, we are looking forward to "NoRSC19, Nordic Remote Sensing Conference" (Cici Alexander and Anna Neuheimer).

#### NEW AIAS MANAGEMENT

In late spring, I have announced my decision to step down as director of AIAS, as per 1 October 2019. After having worked intensively with the processes of preparing, building up, and developing AIAS, since 2011/2012, I believe it is time to return to my research as professor of Aesthetics and Culture at AU.

Apart from my personal motivation for this decision, an institutional one exists too. The "founding fathers" of new institutions

may be important, when building something up from scratch. On the other hand, new institutions should not be too closely identified with certain individuals. Parents must let their children stand on their own feet, when the time is right – and this also applies to "founding fathers".

At the time of writing, my successor as executive director of AIAS has not yet been appointed. The task, however, is clearly identified as developing an AIAS 2.0 in collaboration with the senior management team of AU. This will include the consolidated positioning of AIAS in AU, in the right balance between independence and dependence, between being too far from, and too close to our "mother" university. In addition, external contributions of funding will of course have to be obtained to adapt to future financial requirements.

As any parent, leaving my child will of course fill me with a considerable amount of sadness. I am, however, convinced that AIAS will be able to stand on its own feet, owing to its highly professional, ambitious staff, and its ever changing, unfailing cohorts of high-level researchers, from all over the world. I am looking forward to an AIAS 2.0, and I will continue contributing according to ability, though on the sidelines, in the future. ■

**Morten Kyndrup, summer 2019**

# THE IMPORTANCE OF BEING CHOSEN

By: Joshua Nash, AIAS-COFUND Fellow & Associate Professor, Discipline of Linguistics, University of New England, Australia

**After 1.5 years of fellowship, AIAS Fellow Joshua Nash from the University of New England, Australia, set forth on a cultural exploration of the essence of being 'chosen' as a fellow. This condition is tightly interwoven with the nature of an Institute for Advanced Study.**

I have been told with hope and generosity numerous times over the last one and a half years at AIAS that I have been chosen. The idea of being chosen brings with it the possibility, reality, and even responsibility of being special, of almost having been given a gift. Chosen, special, luxury, freedom, opportunity, gift. These are some of the tropes I have been surrounded by and have been working on, with, and under at this research institute. Such intellectual amenity in the academic world and liberty of thought is almost unheard of. Perhaps that is the importance of being chosen, that we should do something worthwhile with that which has been offered. It is the present to those who are selected to exit and even escape at least for some time from the all-so-common drone of day-to-day tenured scholarly life, unbothered by university duties, to broaden perspectives, associate with great minds, and engage in the free-range existence of a life of letters. In my own published work, I have described AIAS as "an island-like research refuge away from the hustle and bustle of metric fixated, conservative, modern day academia." In such a state and in this laboratory, you have a large measure of autonomy.

## FREE THOUGHT, KPIS, AND A GIFT

The ecology and scaffolding of the chosen is a privileged one. There is free thought, free time, and free good times. There is a plethora of events where other chosens and smart people both engage professionally and mingle informally. Many are often amazed at the amount of time, freedom, and opportunities we chosen have. Such time is almost unheard of in management-fixated and meeting-driven academia. "What? No teaching?" some ask. "Only if we want," offers the respective chosen.

"And this year I have chosen not to teach." "And no meetings?" "Meetings about what?" comes the rejoinder. There are no boards or consultations or obligations or administration to which to attend. There are not even the ubiquitous and often blunt key performance indicators, I-indices, and journal rankings by which researcher worth is measured. Whether these may still lurk in the mind of the chosen is another thing. Again, time at AIAS is offered as a gift, as the first executive director of AIAS, Morten Kyndrup, would say in his welcome speech when new Fellows begin. The same detailed and inspiring speech. The same gift. The same analogy. The same sense of being chosen.

## FELLOWSHIP OF THE CHOSEN

In a different yet related point of being chosen, I have been selected to introduce three Fellows' Seminars. The seminars, for which a fellow Fellow chosen by the Fellow presenting introduces, are the core of the organised scientific life and intellectual climate of the institute. I have found that introducing others is a wonderfully pleasurable and exciting experience, one I take seriously, and one where I feel honoured as a human and as an intellectual. 'Being chosen' makes me feel validated and worthwhile in the interpersonal sphere of waged work. There is great individual-group and scholarly value in this aspect of being chosen. And the introductions I have delivered have given me the opportunity to be unconventional, provocative, and to use humour. Or, as we say in colloquial Australian, to take the piss.

AIAS inherited the idea and reality of Fellows introducing fellow Fellows at Fellows' Seminars from the Wissenschaftskolleg in Berlin. Introducing others brings with it the feeling of camaraderie.



Photo: AIAS Fellows Joshua Nash and Michael Bang Petersen in conversation during AIAS Welcome Lunch. By: Melissa Bach Yıldırım.

derie, a veritable fellowship of the chosen, where the chosen chooses how to present and relate the other chosen to the other chosens present about what they have chosen to present. I titled my three introductions, 'Who are the Brian Jonestown Massacre?, or what is reality?'; 'What's a sauna bromance?, or something about Danish phonotactics'; and 'Let's take a walk in Uniparken, or are we here for a good time or a long time?'. During these introductions I have played music, I have shown photos depicting aspects of the collegiality of the chosen, and I have softly and nicely queried disciplinary boundaries.

#### **TIME IS OUTCOME?**

When new Fellows arrive, they quickly learn the syntax of chosenness; the leisure of few requirements, deadlines, and external pressure, other than that which we enforce on ourselves. The latter can be immense. With chosenness comes responsibility. What if we disappoint? What if we fail, whatever that means? The infrastructural, cultural, artistic, and ecological make up of AIAS as a key European institute of advanced study means that it is a retreat, a sanctuary. Housed within the beautiful architecture of the building itself in a stunning park are rousing art, designer furniture, and modern work spaces, which function as much as art studios as institutional offices. AIAS is an open and pointed yet subtle querying of the nature of higher education, learning, and scholarship simply because it exists. Freedom



Photo: AIAS Fellows Borbála Kovács and Darin Stephanov in conversation during Fellows' Monday Lunch. By: Melissa Bach Yıldırım.

produces time. Time produces outcomes. Some are palpable, others less discernable. AIAS offers the possibility and reality of slow scholarship, a return to the way the academy used to be, and an almost renunciate-like studio practice away from the competitive workplace, at least for some time. At the start and at the end, AIAS volunteers several importances. The importance of being chosen is one of these affordances. ■

# NEW INSIGHTS IN THE SEARCH FOR NOVEL ANTIDEPRESSANTS: CANNABIDIOL IN THE PIPELINE

By: Sâmia Joca

AIAS-COFUND Fellow & Associate Professor, University of São Paulo, Brazil

**Sâmia Joca's research focuses on understanding the brain mechanisms triggered by stress exposure that can lead to the development of neuropsychiatric disorders, such as depression, to ultimately find new treatments. Her research has already revealed that cannabidiol, a non-psychomimetic compound extracted from the cannabis plant, induces fast antidepressant effects in animal models. Ongoing research is being conducted to further characterize this effect and depict its underlying mechanisms.**

Depression is a chronic disabling psychiatric disorder that affects more than 300 million people worldwide, making it a leading cause of disability (WHO, 2017). Despite its effectiveness, clinically available antidepressants present limitations that often compromise the success of the treatment. Limitations such as the need for chronic treatment until a therapeutic effect is achieved, the high number of treatment-resistant patients (~40-45%) and several unwanted side effects, highlight the urgent, unmet need for more effective and faster-acting antidepressant medication.

## POSITIVE EFFECTS OF A COMPOUND FROM THE CANNABIS PLANT?

In this scenario, cannabidiol (CBD) represents a new promising molecule due to its broad-spectrum pharmacological profile. Along with tetrahydrocannabinol (THC), CBD is one of the most abundant components in the cannabis plant. In contrast to THC, however, CBD does not induce abuse and dependence in humans, but has shown multiple therapeutic applications. The potential antidepressant effect of CBD in animal studies was first reported by our group in 2010, and has now been confirmed by other studies. More recently, we have shown that CBD may have a fast-acting antidepressant effect, which seem to involve increased neuroplasticity in brain regions important for stress adaptation and depression neurobiology, such as the prefrontal cortex.

We now aim to further investigate the molecular mechanisms underlying CBD effects in the brain and behaviour as a way of understanding its complex pharmacology and depression neu-

robiology. Moreover, the investigation of CBD effects in animal models can pave the way for future clinical studies aimed at evaluating its therapeutic properties in depressed patients.

## CROSS-CONTINENTAL RESEARCH COLLABORATION - BRAZIL AND DENMARK

This research project has been developed as collaborative work between the University of São Paulo (Faculty of Pharmaceutical Sciences and Faculty of Medicine, Ribeirão Preto), in Brazil, where I have a position as Associate Professor of Pharmacology, and the Translational Neuropsychiatry Unit (TNU), in the Department of Clinical Medicine, at Aarhus University. An agreement to strengthen the academic cooperation further has recently been signed by the faculties, resulting in the exchange of PhD students and staff. One of the results of this is the enrolment of PhD student Gabriella Silote who will complete her PhD with a double degree from Aarhus University and the University of São Paulo.

The promising development of the project assisted by the unique environment provided by AIAS have motivated my application to an AIAS fellowship with the aim to fully dedicate my time to it. Since October 2018, when I commenced my AIAS fellowship, we have tested CBD in different stress models of depression with concurrent evaluation of its molecular and pharmacological mechanisms, with the generous financial support from the FAPESP (São Paulo State Research Foundation), the Independent Research Fund Denmark (DFF) and the AIAS COFUND Marie Skłodowska-Curie Fellowship.



Photo: AIAS Fellow Sãmia Joca in the lab of the Translational Neuropsychiatry Unit (TNU) at Aarhus University together with PhD student Gabriella Silote. By: Ida Maria Jensen.

### **AIAS EXPERIENCE AND PERSPECTIVES**

It is a privilege to be enrolled as a fellow at AIAS, which has allowed me to experience a distinguished environment marked by its excellence in research, interdisciplinarity and outstanding career development plan and institutional support. As a result of that, I have established new collaborations at Aarhus University, e.g. with AIAS colleague Micah Allen, PhD, to study CBD effects in human brain activity as well as with investigators at the Departments of Clinical Medicine and Biomedicine. Further collaborations have also been established with researchers in

Europe, for example from the Max Planck Institute for Psychiatry, in Munich, Germany, and in the USA at the University of Chicago, at Illinois. Such teamwork has brought my research to an entirely different level and, together, we hope to bring in new results that will provide a better understanding of the therapeutic potential of CBD in depression treatment, as well as reveal important aspects related to the neurobiology of depression to improve the future treatment for patients. ■

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# BRINGING TOGETHER NORDIC RESEARCHERS IN REMOTE SENSING ACROSS DISCIPLINES: DATA ACQUISITION, ALGORITHMS AND APPLICATIONS

By: Anna Neuheimer, AIAS-COFUND Fellow, Associate Professor, Department of Oceanography, University of Hawai'i at Mānoa & Cici Alexander, AIAS-COFUND Fellow, previously, Bournemouth University, UK

**AIAS will be hosting the Nordic Remote Sensing Conference 2019 (NoRSC'19) from 17-19 September. NoRSC'19 is co-organised by AIAS Fellows Anna Neuheimer and Cici Alexander, both of whom interact with remote sensing in their own work. Anna uses remotely sensed data, such as satellite-measured ocean plant production, in her work to explain patterns in marine populations. Cici has been working with airborne lidar data, mainly for terrestrial applications.**

A couple of brief encounters in the dynamic, interdisciplinary AIAS environment sparked the idea. A chance remark after a Fellow's Seminar on remote sensing for managing green networks: 'Researchers in oceanography do similar things with bathymetric lidar. Do you folks talk to each other?' A chat over Friday breakfast on how researchers in satellite and airborne data acquisition, 'Big Data' scientists and applied scientists in different disciplines, who use the final 'products', rarely get a chance to communicate.

Northern environments are undergoing rapid changes with the greatest shifts in temperature and some of the most extreme shifts in seasonal timing globally. Remote Sensing has enabled scientists to study and predict phenomena over large spatial and temporal scales. However, Earth Observation data are being collected with increasing spatial, spectral and temporal resolutions, arguably at a faster pace than the development of algorithms for processing and analysing these data.

## A NEED FOR DIALOGUE

Although Nordic countries have long been active in developing sensors for Earth Observation, algorithms for data processing, and data applications, a platform for bringing together Nordic work in remote sensing has been lacking for several years. Taking inspiration from the Nordic Remote Sensing Days organised jointly by the Norwegian Space Centre and the Tromsø Centre for Remote Technology in 2011, and by the Finnish Remote Sensing Club in 2009, we started thinking of a Nordic Remote

Sensing Conference to maximise the opportunities to strengthen ties and learn across disciplines.

Aarhus University was then building its first nanosatellite, Delphini-1, which was to be launched in January 2019. That's when Victoria Antoci (Aarhus University, Physics & Astronomy), who was the project scientist of Delphini-1, came on board as a member of the organising committee. We decided to have a Local Organising Committee from Aarhus University and a Programme Committee with representatives from all the Nordic countries to engage both 'local' and Nordic research communities. Four researchers from various departments at Aarhus University, and eight from other institutes in the Nordic countries offered their support and agreed to become members of the Committees.

## CUTTING-EDGE RESEARCH, INDUSTRY AND SKILLS DEVELOPMENT

NoRSC'19 is taking shape as 2.5 days of keynote and plenary presentations with plenty of opportunity to network both during the main program, as well as via the welcome reception and reception dinner. Two pre-conference workshops for skills development are also planned, based on inputs from committee members: one on 'Deep Learning for Remote Sensing' and another on 'Bridging Earth Observation data and Machine Learning in Python'. COWI, one of the largest geospatial data and solution providers in Europe, kindly agreed to become a sponsor of the conference. NoRSC'19 presenters will also have



Photos: Left: Cici Alexander by Anders Tostrup, Right: Anna Neuheimer by Melissa B. Yildirim.



Image: NASA Landsat 8 (OLI)

the opportunity to submit to a special issue of the International Journal of Applied Earth Observation and Geoinformation.

#### **MULTIPLE INTERDISCIPLINARITIES**

NoRSC'19 will be interdisciplinary in a number of ways – researchers will present on topics covering a range of scales from the acquisition of data from satellite, airborne, terrestrial or under-water platforms, development of algorithms for data processing and analysis, and the use of derived metrics in applications across disciplines. Environments span terrestrial and aquatic, natural and modified environments. Speakers will be

from eight countries with representatives from both academia and industry. Finally, the sessions will be non-thematic to facilitate exchange of ideas across groups.

We hope that the conference will serve as a forum for networking to promote collaborative projects, mainly in the Nordic, and Arctic, countries. AIAS has been integral in conceptualising and organising NoRSC'19, by bringing us together, inspiring us to think across disciplines and providing an ideal setting to host the interdisciplinary group journeying to Aarhus in September. We are very grateful for the encouragement and support we received from AIAS, and are looking forward to September. ■

# AN INTERDISCIPLINARY PROJECT ON ONLINE POLITICAL HOSTILITY AND HOW AIAS MADE IT POSSIBLE

By: Michael Bang Petersen, Professor at the Department of Political Science, Aarhus University  
& Anja Bechmann, Professor at the Department of Media Studies, Aarhus University

**To Aarhus University Professors Michael Bang Petersen from Political Science and Anja Bechmann from Media Studies, the chance meeting at AIAS and the casual daily conversations during their time as 'local' AIAS Jens Christian Skou Fellows has now resulted in a DKK 15.7 million research project on Online Political Hostility, funded by the Carlsberg Foundation.**

In 2010, Mark Zuckerberg was named "Person of the Year" by Time Magazine and Time described how, "Facebook wants to populate the wilderness, tame the howling mob and turn the lonely, antisocial world of random chance into a friendly world". Less than a decade ago, in other words, many of us had hopes for social media to alleviate feelings of loneliness and perhaps create a more democratic world where everyone could freely exchange views about politics with themselves and politicians. Today, for most of us, these hopes have been muted by the circulation of false information and the fact that many discussions on social media are far from peaceful. Rather, they can become extremely hostile.

## **BEHAVIOR ON SOCIAL MEDIA: A 'BLANK' SPACE IS ADDRESSED**

The Danish Security and Intelligence Service (PET), for example, concludes that 'social media are increasingly used to promote threatening and hostile comments (...) and to spread rumors and fake news'. Also, a survey from the Tryg Foundation shows that 80% of the Danish population find that online discussions are dominated by 'very extreme viewpoints' and 57% find that some debaters are 'so aggressive that you don't know what they are capable of'. Such findings are mirrored across Western democracies. For example, according to PEW Research Center, 66% of Americans have witnessed online hostile behavior, particularly in the context of politics. Despite a growing research interest in the topic of hate speech, disinformation and hostility online, we still know very little about associations between psychological profiles and online hostile behaviors, and very few experiments have been conducted to understand how such behavior can be mitigated.

As Jens Christian Skou fellows at AIAS in 2018, we started discussing these developments. Coming from a background in

political and media science, respectively, we had a mutual interest in the topic, yet completely different perspectives on what are the central issues at hand. This became fruitful for the critical discussion and for detailing a research design that was able to take more dimensions into consideration. We wanted to understand why social media political discussions often escalated into hostility and what could potentially be done to mitigate this by assessing the effects of theoretically grounded experiments on shifts in sentiments.

## **THE SUM IS MORE THAN ITS PARTS**

To understand the nature of social media discussions you both need to understand the topic and the media logics: Who is linked to whom in the network, how does algorithms shape the available information? What characterizes political communication and what psychological mechanisms do political discussions awaken in general and on social media specifically? Understanding a phenomenon such as online political hostility, in other words, requires an interdisciplinary approach where political science is integrated with media science in order to shed new light on political discussions on social media.

Based on our conversations at AIAS, we are now starting a large-scale research project on the causes, consequences and potential remedies of online political hostility. The project is titled 'Research on Online Political Hostility' (or ROPH, pronounced 'rough') and is funded by the Carlsberg Foundation with DKK 15.7 million over the next 5 years.

For example, by integrating social media trace data with political and psychological survey measures, we seek to understand the processes through which online political hostility emerges.



Photo: AIAS Former Jens Christian Skou Fellows Anja Bechmann and Michael Bang Petersen. By Ida M. Jensen.

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Our conversations about online hostility and disinformation started over breakfast and lunch, in the hallway and in the breaks of fellow's lectures. When we started, we had no idea that these informal conversations would lead to actual

research. But it was in those informal conversations, that we built a common vocabulary. Interdisciplinarity cannot emerge without the time and space for reflection and conversation, which is so integral to AIAS.

How people take offline feelings of marginalization and polarization with them as they log into social media platforms, and how these feelings escalate into hostility when confronted with disagreement on platforms where lack of face-to-face interaction limits emotion-regulation and reconciliation. At present, researchers have a limited understanding of these processes. Our hope is that a better understanding can ultimately pave the way for building technological and educational interventions that counteracts hostility. Then, perhaps, the democratic potential of social media can be strengthened.

#### **NO EASY TASK: INTERDISCIPLINARY RESEARCH**

Interdisciplinary research is exciting and necessary - but it is also difficult. One of the most difficult parts of interdisciplinary research is to build a common vocabulary across different

disciplines. Disciplines have different foci, methods, theories and so forth and all this needs to be reconciled when combing them to tackle a common problem. This is why AIAS provides a unique platform for making interdisciplinary research possible. AIAS does not impose interdisciplinarity from the top but let it grow from the bottom. Physical co-location of researchers from various disciplines is central for this vision. Our conversations about online hostility and disinformation started over breakfast and lunch, in the hallway and in the breaks of fellow's lectures. When we started, we had no idea that these informal conversations would lead to actual research. But it was in those informal conversations, that we built a common vocabulary. Interdisciplinarity cannot emerge without the time and space for reflection and conversation, which is so integral to AIAS. ■

# AIAS HOST OF THE 2019 NETIAS AND EURIAS ANNUAL MEETINGS

By: Lena Bering, Communications Officer, Special Consultant, Aarhus Institute of Advanced Studies

**Discussions were constructive and topics diverse, when IAS directors, representatives and fellows from 25 European institutes for advanced study met at AIAS, Aarhus University from 3-6 April 2019 for the Annual Directors' Business Meeting and EURIAS Fellows' Conference in the European Network for Institutes for Advanced Study (NetIAS).**

At the Budapest Annual Meeting of the European Network for Institutes for Advanced Study in April 2018, it was decided that AIAS should host the April 2019 Annual Meeting. This meant a year of planning across IAS institutes between AIAS director, Professor Morten Kyndrup, Nadia Al-Bagdadi, NetIAS chairman and director of the IAS Central European University, Budapest; and Olivier Bouin, NetIAS general secretary and director of the Fondation Réseau français des instituts d'études avancées, Paris.

## DUAL MEETING – BRINGING RESEARCH DIRECTORS AND FELLOWS TOGETHER

The programme of the Aarhus Annual Meeting 2019 had a dual track, as both a Directors' business meeting and a conference for the EURIAS Fellows of the network were held at the same time. The conference for the EURIAS fellows was also the closing event for the joint fellowship programme of the NetIAS network.

The meetings kicked off with a welcome dinner at AIAS on Wednesday evening, followed by the Business Meeting for directors and administrators on Thursday morning, lasting until the afternoon. The Directors' Business Meeting serves as a platform for the member institutes to discuss urgent European science policy matters, to share 'local' and global challenges and opportunities and to put novel ideas on the agenda. This year, issues such as IAS partners in the Global South and challenges for research in Central and Eastern Europe were debated. Also new initiatives were put forth as e.g. CAT (Constructive Advanced Thinking), a programme that seeks to include and promote into the IAS setting promising early-career scholars who wish to address emergent societal issues with novel ideas. The discussions at the Business Meeting were vibrant and inspiring with several decisions taken to enhance and extend international relations among the institutes and its research fellows.



Photo: NetIAS Directors' Business Meeting, AIAS April 2019.  
By: Christophe Delory.

## AN UNLIKELY COMBINATION

On Thursday afternoon, the academic part of the Annual Meeting took off with a keynote on Greek tragedy and Irish politics by AIAS fellow Isabel Torrance. As described by NetIAS member institute IASH Edinburgh, the topic of the keynote was '[a]n unlikely combination at first sight, the speaker Isabelle Torrance brilliantly showed how contemporary Irish drama has frequently made use of classical tragedies like Antigone to address the sensitive issue of Northern Ireland and to reflect on the chances of and barriers to reconciliation and peace. With the possibility of a no-deal Brexit imminent in early April, the talk had a particular urgency and ensured lively conversation during the subsequent reception.'



Photo: Networking break at Directors' Business Meeting, AIAS April 2019. By: Christophe Delory.



Photo: NetIAS Directors' Business Meeting. By: Christophe Delory.



Photo: Welcome to 'EURIAS Annual Meeting' by Olivier Bouin, NetIAS general secretary and director of RFIEA, Paris. By: Christophe Delory.

### SCIENCE SLAM – RESEARCH DIVERSITY

Friday morning, the EURIAS Conference was initiated with a 'Science Slam session' at which each fellow had three minutes to present his or her research topic. This session served well as a platform for scientific dialogue between the some 30 participating fellows. The 'Slam session' was followed by four themed panel sessions that gave pre-selected fellows the opportunity to present their individual EURIAS fellowship project in more depth and certainly enhanced the interdisciplinary discussions and commentaries among fellows and directors.

The social programme took, among other things, a large group of the participants on a guided tour at the Aarhus University Campus and the ARoS Art Museum to show delegates the beautiful surroundings that AIAS and the city of Aarhus offer, and most importantly to make room for further informal networking across institutions and research fields. ■

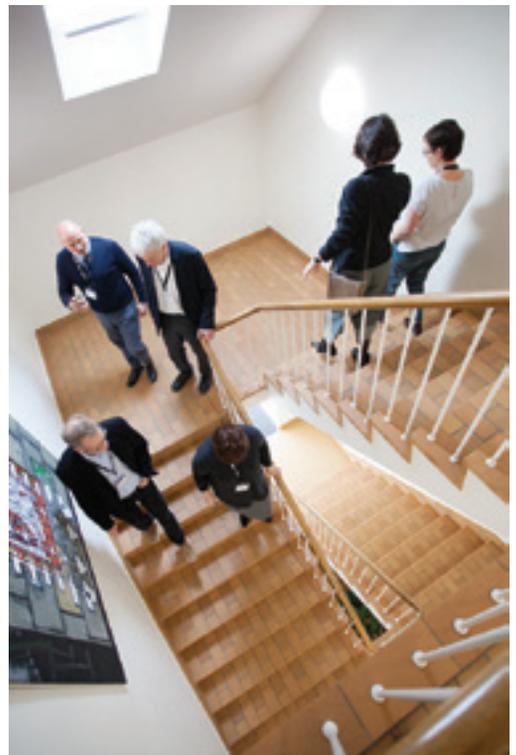


Photo: Leaving the NetIAS Director' Business Meeting – discussions continue. By: Christophe Delory.

# FELLOWS 2018-2019



In the academic year of 2018-19, AIAS has hosted **41 fellows** from **33 different research institutions** from around the globe, from China, the US, Brazil, Japan, Australia, the UK, Hungary, and many more. The cohort of fellows brings **19 nationalities** and more than **30 different academic research areas** to AIAS. An academic and cultural diversity that strives to **challenge and question** fellows' research and topics from outside the academic silo, to generate **new ideas and concepts**.


**ADELINE MASQUELIER**

AIAS COFUND Fellow

Professor, Department of Anthropology, Tulane University, USA

**Area of research: Social anthropology**
**Project title:** 'Haunted Schools: Schooling, Possession, and Ecology in Niger'

As an anthropologist, I work in Niger on questions of religion, gender, and modernity. While at AIAS I have been writing a monograph on the possession of schoolgirls, based on fieldwork I conducted in urban and rural Niger. My study is situated at the intersection of religion, ecology, and education. In Niger where people have massively converted to Islam in the past century, spirit shrines (including trees) were destroyed and spirit veneration is waning. By focusing on the irruption of spirits in modern schools, I address problems of continuity and change and spirit veneration and its demonization by successive waves of Islamic reforms.


**ANDREW FAULKNER**

AIAS COFUND Fellow

Professor, Department of Classical Studies, University of Waterloo, Canada

**Area of research: Literature and Theology**
**Project title:** 'The Tradition of Greek Early Christian Poetry'

I'm interested in Greek poetry of the fourth to the sixth centuries AD, which employs the traditional language and metres of classical poetry such as the hexameter epics of Homer. My work at AIAS explores how Christian poets of the period used classical poetic forms as expressions of religious faith and cultural belonging. I consider how they engage simultaneously with the classical canon and Judaeo-Christian literature, comparing language, motifs, narrative structure, and theology. This research led in June 2019 to an AIAS conference 'Cultural Identity and Transmission in Early Christian Literature'.


**ANNA NEUHEIMER**

AIAS COFUND Fellow

Associate Professor, Department of Oceanography, University of Hawaii at Manoa, USA

**Area of research: Marine Ecology**
**Project title:** 'Timing is everything: Developing a mechanistic understanding of fish timing strategies and their role as conduits of climate change (FutureFish)'

Timing is everything in seasonal environments, with a predator's success depending on how they match their prey in space and time. This is thought to be particularly true for fish early life stages, where limited parental investment means survival depends on how well larvae match food timing. I have developed a "biological theory of relativity" that characterizes relevant biological time-scales to (i) estimate how fish timing controls abundance, (ii) estimate the adaptive potential of fish timing, and (iii) predict the influence of timing on future fish production.




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**ANNI KLEINO**

AIAS COFUND Fellow

Associate Professor, Department of Medicine, University of Massachusetts Medical School, USA

**Area of Research: Molecular biology**

**Project title:** 'The role of functional bacterial amyloids in alpha-synuclein misfolding and aggregation in Parkinson's disease'

I am interested in how interactions of microbes and the host cells regulate human health. My project focuses on functional bacterial amyloids secreted by gut microbiota. Bacterial amyloids participate in biofilm formation and promote microbial colonization of host epithelia, but may also trigger inflammation and promote conversion of alpha-synuclein into amyloid form, thus playing a role in Parkinson's disease pathogenesis. My aim is to characterize immune responses elicited by various bacterial amyloids, analyze whether they promote alpha-synuclein aggregation, and test if amyloid inhibitors could be used to prevent this.




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**ASAD JAN**

AIAS COFUND Fellow

Postdoc, previously Department of Medicine, University of British Columbia, Canada

**Area of research: Neuroscience**

**Project title:** 'Blocking the prion-like disease propagation in Parkinson's disease and related disorders – model development and identification of cell-autonomous and cell non-autonomous factors'

Parkinson disease (PD) is the most common neurodegenerative cause of motor disability. In order to find new mechanisms in the disease progression and eventually test novel therapeutic targets, I am developing and validating genome editing tools in models of PD. Recently, I have identified neuronal populations in spinal cord which are affected early in the pathogenesis in an animal model of PD, which is based on prion-like spreading of misfolded alpha synuclein from periphery into the nervous system. By employing viral mediated gene transfer in this model via minimally invasive methods, I aim to block specific molecular mechanisms to prevent the propagation of misfolded protein pathology in similar models.




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**BORBÁLA KOVÁCS**

EURIAS Fellow

Postdoc, previously Visiting faculty, the Department of Political Science, Central European University, Hungary

**Area of research: Social policy**

**Project title:** 'Retrenchment politics in contemporary Eastern Europe: the emergence of formal insecurity regimes?'

My project is a comparison of Hungarian, Lithuanian and Romanian social policy change, making the case of over-time similarity in policy change despite very different welfare state architectures. The research has entailed constructing exhaustive timelines of social legislation for the 1990-2018 period for family cash transfers and personal income taxation and analyzing patterns of change over time and cross-nationally. Findings show that policy change has followed the same recipe everywhere, with policy change benefitting the better off increasingly more and those worse off increasingly less.


**CHRISTINA KKONA**

AIAS COFUND Fellow

Associate Professor, Department of English, Hellenic American University, Greece

**Area of research: Comparative literature and Cultural Theory**
**Project title:** 'The unexpected: toward a politics and aesthetics of discontinuity'

Examining different literary and cinematic works, the project challenges dominant discourses depicting the past and the present in terms of a future proclaimed as determinate, such as the promissory political narratives of a better world displaced onto a continually deferred future. Alternatively, a politics that is no longer a future-oriented promise, but a present-oriented action embracing unpredictable events is theorized. The project approaches social exclusion from the perspective of temporal consciousness and posits the unexpected as the locus from which the present is organized as space-time of openness to the other.


**CICI ALEXANDER**

AIAS COFUND Fellow

Associate Professor, previously Department of Life and Environment Sciences, Bournemouth University, UK

**Area of research: Remote Sensing**
**Project title:** 'Innovative remote sensing techniques for developing green infrastructure strategies to support biodiversity conservation and carbon sequestration'

My project at AIAS will use innovative, and complementary, remote sensing techniques for assessing and monitoring green infrastructure. Airborne Laser Scanning, using the technique of Light Detection and Ranging (LiDAR), has advantages over other remote sensing techniques for characterising the three-dimensional structure of vegetation. The main objectives are to develop indices for the quality of urban green networks, methods for the rapid assessment of changes in woody vegetation cover and for the identification of forests of High Nature Value, using multi-spectral imagery in addition to the Danish national LiDAR datasets.


**DARIN STEPHANOV**

AIAS COFUND Fellow

Postdoc, previously University of Jyväskylä, Finland

**Area of research: Comparative Imperial History**
**Project title:** 'Monarchic Visibility, Public Space, and Collective Identities in the Romanov and Ottoman Empires (1825-1908). A Comparative Study of the Finnish and Bulgarian Trajectories of Communal-cum-National Consciousness'

My project traces the origins, nature and evolution of the cycles of symbolic interaction between a cross-section of Finns and Bulgarians (the ruled) and their respective Romanov and Ottoman monarchs (the rulers). The new imperial policies of royal image making, along with the discourses and practices spun around them, unlocked a complex process of extension of long-standing localized micro forms of belonging and their linkage to the center for a new imperial macro form of belonging at the popular level. In short, this signaled the advent of modernity.

**DENNIS KONNERUP**

AIAS COFUND Fellow

Assistant Professor, previously School of Agriculture and Environment, University of Western Australia, Australia

**Area of research: Plant Physiology****Project title:** 'Surviving saline floods – salinity and submergence tolerance of wild rice'

Some plants, e.g. rice and floating sweet-grass, possess hydrophobic leaves that retain a thin layer of air when submerged. This air layer is called a gas film, and the aim of my project is to elucidate how this mechanism enhances oxygen and carbon dioxide exchange with the floodwater under different floodwater conditions. In my project, I will use species of wild rice as these possess higher genetic diversity compared to cultivated rice. Submergence experiments will be conducted to assess how the species differ in their ability to retain gas films under water, and studies with micro-electrodes will be used to examine how the internal aeration of the plants depends on the gas film retention time.

**DOUG SPEED**

AIAS COFUND Fellow

Assistant Professor, previously UGL Genetics Institute, University College London, UK

**Area of research: Genetics****Project title:** 'Developing statistical tools to analyze large-scale genetic datasets and improve our understanding of complex diseases'

There is an ever-increasing amount of genetic data available, but we lack tools to efficiently analyze these data; my work focuses on developing the statistical tools we require. One of my focuses is personalized medicine: the high heritability of many human diseases means that in theory it should be possible to accurately predict an individual's risk of disease from their DNA; my novel methods will help make this a reality. I will make my tools freely available to other researchers through my software package LDK (www.lak.org).

**FEDERICA BERTOLOTTI**

AIAS COFUND Fellow

Postdoc, Department of Science and High Technology, University of Insubria, Italy

**Area of research: Solid State (Nano-)Chemistry****Project Title:** 'From the atomic structure to the nanocrystal morphology: a novel Unified X-ray Scattering approach for the characterization of nanomaterials'

During the last year of my AIAS fellowship, I've worked on the development of integrated modeling of Small and Wide-Angle X-ray scattering data (the first collected with a dedicated instrument at iNANO, the second at SLS/PSI, a large scale facility in Switzerland), using the Debye Scattering Equation. This integration is of particular interest dealing with defective nanomaterials, for which disentangling the size/shape- and defects-induced peaks broadening in the diffraction pattern is not a trivial task. So far, together with my collaborator, I've applied this method on two different classes of nanomaterials, CdSe colloidal QDs (ACSnano (2018) 12, pp. 12558-12570) and nanopatite samples (to be published).



### FRANCO DE ANGELIS

AIAS COFUND Fellow

Professor, Department of Classical, Near Eastern, and Religious Studies, University of British Columbia, Canada

#### **Area of Research: History and archaeology of the pre-Roman Mediterranean**

**Project title:** 'Conjoining Cultures and Economies in the Pre-Roman Western Mediterranean'

The pre-Roman western Mediterranean between the 9th and 3rd centuries BC has been aptly described as a "fantastic cauldron of expanding cultures and commerces" which saw the conjoining of immigrant cultures and economies from the eastern Mediterranean (particularly Greeks and Phoenicians) with indigenous cultures of the western Mediterranean (particularly Etruscans, Sardinians, and Iberians). One question drives my research: Why did Rome come out on top and become the historical centre of the ancient world? I employ interdisciplinary methods that combine history and archaeology at both a micro and macro level and that are theoretically informed to answer this question.



### FREDRIK CHRISTIANSEN

AIAS COFUND Fellow

Assistant Professor, previously School of Veterinary and Life Sciences, Murdoch University, Australia

#### **Area of Research: Bioenergetics/ Ecophysiology**

**Project title:** 'Understanding the population consequences of human disturbance on baleen whales'

With human-wildlife interactions becoming increasingly frequent around the world, I am interested in how human disturbance can affect wildlife populations. In particular, I am interested in how changes in individual behaviour (caused by human disturbance) can lead to changes in energy consumption and expenditure, and how this can influence an animal's body condition, survival and reproductive success, and ultimately population dynamics. Focusing on baleen whales, I use a combination of research techniques, including drones and small archival tags, to determine these relationships.



### GEORGINA BORN

AIAS COFUND Fellow

Professor, Faculty of Music, Oxford University, UK

#### **Area of Research: Musicology, anthropology, digital culture studies, critical cultural legal studies, sound studies**

**Project title:** 'Music, Digitisation, and Cultural and Intellectual Property'

My AIAS project re-interprets ethnographic studies carried out under an ERC research grant that examined how digitisation and digital media are transforming musical practices in the developing and developed world. I am analysing the ethnographic material in order to contribute to debates at the intersection of music, anthropology, digital culture and legal studies about the challenges to music copyright caused by digital technologies. Referencing the diverse values, concepts of authorship and economic systems attached to music across our studies, I question the universalization of Western intellectual property norms and develop alternative paradigms issuing from the global South.



### ISABELLE TORRANCE

AIAS COFUND Fellow

Associate Professor, previously Department of Classics, University of Notre Dame, USA

#### **Area of Research: Classical Reception and Irish Studies**

**Project Title:** 'Greek Tragedy and Irish Politics'

My research at AIAS demonstrates how Irish politics are deeply embedded in what may appear to be simple retellings of Greek tragedy over the course of the 20th and 21st centuries, from the beginnings of the Irish independence movement to current Brexit concerns over the Irish border. This year, I have been awarded a Consolidator Grant from the ERC to fund a further five years of research with a team to examine Irish appropriations of classical models more broadly from the medieval period to the present day. The project is due to be hosted at Aarhus University's Centre for Irish Studies in the English Department.



### JENNIFER GALLOWAY

AIAS COFUND Fellow

Research Scientist, Geological Survey of Canada, Calgary, Canada

Adjunct Research Professor, Department of Earth Sciences, Carleton University, Ottawa

Adjunct Assistant Professor, Department of Geosciences, University of Calgary, Calgary

Adjunct Professor, Department of Geology, Brandon University, Brandon, Manitoba

#### **Area of Research: Earth Sciences, micropaleontology, paleoclimatology, paleoecology**

**Project title:** 'Arctic Terrestrial ecosystem functioning during the dynamic Early Cretaceous Greenhouse World Arctic'

My research at AIAS focuses on geological methods to better understand drivers and consequences of global climate change during relatively warm intervals in Earth's history. Using the study of pollen and spores integrated with organic, element, and isotope geochemistry, I will study the role of climate variability on terrestrial ecosystem functioning of the extinct polar biome during a time when the Arctic was covered with lush vegetation despite the long polar night and summers with continuous sunlight.



### JESSIE FILLERUP

AIAS COFUND Fellow

Associate Professor, Department of Music, University of Richmond, USA

#### **Area of research: Musicology**

**Project title:** 'Enchanted: Music and Conjuring in the Long Nineteenth Century'

My project focuses on uses of music in nineteenth-century theatrical magic shows performed in Europe and North America. I use a range of archival sources for three purposes: 1) to document the musical styles, genres and performers involved in stage magic; 2) to interpret the structural and affective function of music in specific conjuring effects, and 3) to create new interpretations of conjurer figures in classical ballets and operas. The historical account of nineteenth-century performance and media that I'm writing interweaves magic, music, spectacle, and popular entertainment.



### JOSHUA NASH

AIAS COFUND Fellow

Associate Professor, Discipline of Linguistics, University of New England, Australia

#### Area of research: Linguistics

**Project title:** 'Documenting the highly endangered Pitcairn Island language in New Zealand and Australia'

The twists and turns of conducting free-range research this last year have led me to interrogate the assumptions of my discipline. I have been using creative and artistic methods to represent my linguistic case study, Pitcairn, the Pitcairn Island language. These experiments have led me to reconsider the three principal questions of linguistics: How do languages develop? How do languages change? And how do languages die? This thinking has pushed me to consider whether linguistics necessarily has anything at all to do with human languages per se. My work-in-progress thinking is wildly Chomskyan, namely that I believe linguistics is less about seeking to understand language and more about establishing scientific systems and observing how such procedures ebb, flow, and meander.



### LUCIA ANGELINO

AIAS COFUND Fellow

Assistant Professor, previously University Paris 1 Pantheon – Sorbonne, France

#### Area of Research: Philosophy

**Project title:** 'The phenomenology of acting in synchrony with others: towards the bodily roots and sensorimotor foundations of the sense of we-agency in musical joint action'

How do individuals come to act, feel and think qua members of a team without a prior plan? In this project I will address this question by looking at the kind of collective improvisation attained by the "free jazz" at the beginning of sixties. Combining theoretical work on the concept of collective intentionality with phenomenological analysis of a few study-cases my aim is to outline a refined notion of singular-yet-plural intentionality — beyond current thinking in analytic philosophy — by drawing on the rich and sophisticated insights offered by the phenomenological tradition.



### LUÍS PEDRO VIEGAS

AIAS COFUND Fellow

Assistant Professor, previously Department of Chemistry, University of Coimbra, Portugal

#### Area of research: Theoretical and Computational Atmospheric Chemistry

**Project title:** 'Green design of CFC alternatives: an interdisciplinary approach'

The adverse environmental impact stemming from the release of certain chemical compounds into the atmosphere has led to an international effort (e.g. the United Nations and European Commission) to implement policies tackling this problem. At AIAS, my research focuses on studying degradation pathways of a new and promising class of hydrofluoropolyethers through the use of molecular modelling techniques. I will try to unveil fundamental aspects of their unestablished atmospheric chemistry, hoping to discover new alternatives for the production of new greener compounds through eco-friendly industrial processes.



### MAGNUS KJÆRGAARD

AIAS COFUND Fellow

Assistant Professor, previously Department of Chemistry, University of Cambridge, UK

#### Area of research: Molecular Biology

**Project title:** 'Can a cooked noodle store information? The mechanisms of disordered proteins in synaptic plasticity'

My AIAS project studies the mechanisms of proteins that contribute to memory formation and consolidation in the brain. Memories are stored in the physical structure of the brain, and particularly in the way neurons communicate with each other in the synapse. My work centers on the receptors that detect signals sent between neurons in the synapse, which we investigate using biophysical tools. The long-term goal is to understand why some experiences are forgotten after five minutes, while others are stored for a life-time.



### MARTIN THOMSEN

Jens Christian Skou Fellow

Associate Professor, Dept. of Clinical Medicine and Dept. Biomedicine, Aarhus University, Denmark

#### Area of Research: Medical Sciences

**Project title:** 'In vivo cancer models based on CRISPR/Cas9'

The focus of my research is tumor biology and the molecular mechanism in tumor progression. In my group we have established in vivo tumor models in mice and mini pigs, with the use of CRIPRS technology. Hereby, disease models can be generated rapidly with genetic alterations. The model can target different organs and multiple candidate genes simultaneously and therefore specific biological questions can be addressed in an in vivo setting. Currently, projects are ongoing related to glioblastoma, lung and prostate cancer.



### MICAH G. ALLEN

AIAS COFUND Fellow

Associate Professor, Cambridge Psychiatry, Cambridge University, UK

#### Area of Research: Cognitive neuroscience, computational psychiatry

**Project title:** 'The Visceral Brain: A Computational Approach to the Embodied Mind'

Psychiatric illnesses impact one in four Europeans, resulting in extensive suffering and billions in economic loss. Thus far, psychiatric research has investigated the causes of mental illness by focusing on mechanisms solely 'within the head'. However, many illnesses are characterised and compounded by disruptions in bodily experiences and function. Indeed, I have found that signals from the heart and other organs influences how we perceive the world and make decisions. These so-called 'gut-feelings' are critical for healthy cognition; yet current models largely ignore their impact on the brain. Until we understand the mechanisms governing these brain-body interactions, our ability to both identify mental illness risk factors and develop effective treatments will be incomplete. To overcome this limitation, this project will combine innovative methods for manipulating gut feelings with computational neuroimaging of brain-body interaction, revealing new targets for embodied psychiatric treatment.



### MICHAEL BANG PETERSEN

Jens Christian Skou Fellow

Professor, Department of Political Science, Aarhus University, Denmark

#### Area of research: Political science

**Project title:** 'Political Rumors: Why Do They Spread and How Can They Be Stopped?'

Politics has changed. Citizens once passively received news from a select number of mass media. Today, in the age of the Internet, citizens are actively engaged in disseminating news stories themselves via social media. One consequence of this fundamental change is that rumors, i.e., difficult-to-verify information, abound in politics. This project contributes to our understanding of political rumors by building a general theory of the psychology that motivates people to spread political rumors. Theoretically, the project combines the insights from biology, psychology and the social sciences



### MICHAEL VOLDGAARD CLAUSEN

AIAS COFUND Fellow

Assistant Professor, previously Department of Physics, University of Oxford, UK

#### Area of research: Biophysics

**Project title:** 'How do we sense touch, sound, balance and force?'

Many forms of sensory perception in higher organisms depend upon the rapid conversion of mechanical and physical stimuli into the electrochemical language of nerve and muscle cells. These transduction mechanisms often involve mechanosensitive ion channels that are able to convert physico-mechanical responses into the electrical signals required for the control of complex physiological responses e.g. touch, pain, hearing and proprioception. The goal of my project is to decipher the exact molecular mechanisms that underlie this translation of physical force into ion-channel gating.



### NAICHENG WU

AIAS COFUND Fellow

Associate Professor, Department of Health and Environmental Sciences, Xi'an Jiaotong-Liverpool University, China

#### Area of research: Hydroecology

**Project title:** 'Developing a risk assessment system to evaluate the impacts of future land use and climate scenarios on aquatic ecosystems - an interdisciplinary model-based synthesis'

Biodiversity and ecosystem functions - which are extremely important to the delicate balance of nature - is being continuously challenged by multiple stressors such as climate warming, nutrient enrichment, and flow regime change induced by global changes. My research at AIAS is using an interdisciplinary model-based synthesis to explore the human mediated impacts on river ecosystems and develop sustainable strategies for aquatic ecosystems under rapid global change. The study will address three major topics: risk assessment, management scenarios and integrated ecohydrological modelling.



### NICHOLAS VROUSALIS

EURIAS Fellow

Associate Professor, School of Philosophy, Erasmus University Rotterdam, The Netherlands

#### **Area of Research: Freedom and Economic Inequality**

**Project title:** 'Political philosophy'

During my time at AIAS, I have completed my second monograph, entitled *Exploitation as Domination: A Theory of Inequality and Power*. The book attempts to explain the nature, form, and fate of exploitation complaints. It argues that the exploitation of human by human is a form of domination, domination for self-enrichment. In June 2019, I also began work on my VIDI grant (€800,000), awarded by the Dutch Organization of Scientific Research (NWO), for a project entitled "Inequality against Freedom: Economic Power, Markets and the Workplace." The project will build a toolkit for the critique of inequality from the perspective of individual freedom.



### NIKOLAJ T. ZINNER

Jens Christian Skou Fellow

Associate Professor, Department of Physics and Astronomy, Aarhus University, Denmark

#### **Area of research: Physics**

**Project title:** 'Quantum few-body networks with superconducting circuits'

My research goal in this project is to produce a prototype of a fully quantum mechanical network that can perform non-trivial quantum tasks. It hinges on a new class of quantum spin transistor that my collaborators and I are now working closely with experimentalists to realize. Building on these ideas, I want to take the next step of building a quantum network that can classify or manipulate quantum information in an autonomous manner, and provide a blueprint for how this can be realized in superconducting quantum circuits.



### PARASKEVI MANOLAKI

AIAS COFUND Fellow

Postdoc, previously Environmental Conservation and Management, Open University of Cyprus

#### **Area of research: Stream Ecology**

**Project title:** 'Effects of global changes on river ecosystem functioning: Understanding underlying mechanisms of multiple stressors using aquatic plant traits'

Most of the global changes in rivers occur as multiple interacting stressors and lead to a chain of effects on the ecosystem structure and functioning. My AIAS project studies how aquatic plants respond through their biological traits to multiple stressors, and seeks to determine how response traits affect stream functioning. My project follows the scaling approach from individual to ecosystem dynamics through the community level, and tests 1) how a community response to a change and 2) how a changed community affects ecosystem process. I am currently working on the mesocosm experiments using the experimental field facilities at Aarhus University.



### PETER DALSGAARD

Jens Christian Skou Fellow

Professor, School of Communication and Culture, Aarhus University, Denmark

#### Area of Research: Interaction design

**Project title:** 'Digital Idea Archives in Creative Work'

Creative processes revolve around fostering, synthesising, exploring, communicating, transforming, and externalising ideas. The process of capturing ideas in idea archives, e.g. notebooks and digital repositories of sources of inspiration, is therefore a central component in creative work.

In my AIAS project, I study idea archives "in the wild" among skilled creative practitioners, including architects and designers. The aim is to uncover how idea archives help them revisit, reuse, and combine ideas, and to figure out if we can better support the practices around idea archives with digital systems



### PETER TEGLBERG MADSEN

Jens Christian Skou Fellow

Professor, Department of Bioscience, Aarhus University, Denmark

#### Area of research: Sensory physiology

**Project title:** 'Adaptive perception through active sensing'

I am interested in how wild animals use sensory systems to inform behavioral transitions to find food, avoid predators and navigate. I am particularly interested in understanding how echolocating animals actively sense with sound to form a very adaptive perception of their environment. To do that, I am using small archival, acoustic tags on wild animals from bats to sperm whales allowing me to study their sensory ecology as a function of natural and disturbed habitats.



### RASMUS O. BAK

AIAS COFUND Fellow

Assistant Professor, previously Stanford University, USA

#### Area of research: Biomedicine

**Project title:** 'Precise CRISPR-mediated genomic integration of large transgenes in human cells'

My research project focuses on editing the human genome for therapeutic purposes. Numerous genetic diseases are caused by an error in a single gene. Using newly developed gene editing technologies (like the CRISPR system), I hope to be able to correct these disease-causing mutations and cure patients definitively. This project addresses the challenge when patients suffering from the same disease display different mutations scattered within the same gene. To make a universal gene editing cure that would apply to all patients, one would need to insert the full functional gene into the genome. For large genes, this poses a unique technical challenge that I hope to overcome.



### RENEE VAN DER SLUIS

AIAS COFUND Fellow

Assistant Professor, previously the Department of Microbiology and Immunology, University of Melbourne, Australia

#### **Area of Research: HIV, dendritic cells, immunomodulation, therapeutic vaccine**

**Project title:** 'Evaluating the effect of genetically engineered human plasmacytoid dendritic cells to induce specific anti-HIV responses and kill HIV-infected cells'

Antiretroviral therapy (ART) has revolutionized the treatment of infection with human immunodeficiency virus (HIV) but ART needs to be taken life-long and has side effects. Therefore, there is a need to cure HIV infection or induce virus "remission" so that ART can be stopped. The aim for my research at AIAS is to evaluate the potential of stem-cell-generated plasmacytoid dendritic cells (pDC) to induce new and enhance existing immune responses to target HIV infected cells. This is challenging because HIV possess mechanisms to evade immune recognition but if this approach is successful, it could lead to a personalized cell-based therapeutic vaccine treatment for people living with HIV.



### SÂMIA JOCA

AIAS COFUND Fellow

Associate Professor, School of Pharmaceutical Sciences of Ribeirão Preto, University of São Paulo, Brazil

#### **Area of Research: Behavioral pharmacology**

**Project title:** 'Investigation on the rapid and sustained antidepressant-like effects of Cannabidiol (CBD) and its mechanisms'

Research into new antidepressants is needed since the available drugs present several limitations. Our group is interested in investigating the potential antidepressant effect induced by Cannabidiol (CBD), a non-psychotomimetic cannabinoid present in the Cannabis sativa plant, in different animal models. Our main goal is to characterize the molecular mechanisms induced by CBD, using state of the art preclinical techniques, molecular and pharmacological tools. The study of its complex molecular properties can pave the way for a better understanding of depression neurobiology and the development of the next generation of antidepressants.



### SHUBIAO WU

AIAS COFUND Fellow

Associate Professor, Department of Agricultural Engineering, China Agricultural University, China

#### **Area of research: Environmental science**

**Project title:** 'Intensified Constructed Wetlands for Treatment of Ammonia Stripped Effluent: Nitrogen Transformations and Removal Pathways'

Wastewater is often discriminated from its negative impact on the environment, since it often contains various contaminants such as organic matter, N and P, which can result in eutrophication of water systems. However, these compounds cannot only be seen as waste, which is just not handled properly in the right place, but are also valuable nutrients to the plants. Therefore, my project at AIAS is trying to investigate the possibility of using constructed wetlands as a low cost but effective technique for nutrients recovery and bioremediation of polluted waters.



### THOMAS TAURIS

AIAS COFUND Fellow

Professor, previously Astronomical Institute, University of Bonn, Germany

#### Area of Research: Astrophysics

**Project title:** 'Binary Compact Objects as Gravitational Wave Sources'

The recent detections of gravitational waves (GWs) from merging binary black holes (BHs) and neutron stars (NSs) have opened a new major branch of research in modern astrophysics. The central questions concerning their origin, however, still remain unanswered. I investigate how these BH/NS binaries form using a combination of numerical binary stellar evolution, supernova explosion modelling and population synthesis investigations. GWs are also emitted continuously at lower frequencies from tight Galactic systems of BHs, NSs or white dwarfs, and my project involves predictions for the upcoming LISA detector.



### THOMAS TRAM

AIAS COFUND Fellow

Postdoc, previously Institute of Cosmology and Gravitation, University of Portsmouth, UK

#### Area of research: Cosmology

**Project title:** 'Neutrino simulations under the spell of General Relativity'

As a theoretical cosmologist, I test the fundamental physical laws governing our Universe by comparing theoretical models to observations. The parameter space is multidimensional so inference relies on Monte Carlo methods. This necessitates fast model computations while the increasing fidelity of the data calls for high accuracy. My research at AIAS focuses on developing methods for including massive neutrinos and General Relativity in numerical simulations of structure formation.



### TOBIAS WANG

Jens Christian Skou Fellow

Professor, Department of Bioscience, Aarhus University, Denmark

#### Area of research: Zoophysiology

**Project title:** 'Evolution of the four-chambered heart'

How did the four-chambered heart in both mammals and birds evolve independently from a three-chambered heart in their common ancestors amongst early reptiles? From a teleological point of view, this parallel evolutionary transition is consistent with a rise in metabolism associated with the evolution of endothermy – the ability to maintain high and stable body temperatures – in both mammals and birds. However, it is not given that birds and mammals would solve the functional challenge of elevating oxygen transport by evolving so similar cardiovascular structures. Therefore, I am interested in elucidating whether there are evolutionary constraints in the ancestral reptilian heart and whether there were merely a few possible avenues to provide the high blood pressure and high heart rates to provide the extra oxygen transport to the body.

**TOMONORI TAKEUCHI**

AIAS COFUND Fellow

Associate Professor, Biomedical Sciences, University of Edinburgh, UK

**Area of research: Neuroscience****Project title:** 'Enhancing everyday memory with novelty'

Most of our everyday memories are forgotten. However, the retention of these trivial memories is enhanced when something novel happens shortly before or after the time of memory encoding. This research project aims to address two specific issues: (1) Which brain area detects novelty and how its signal reaches the brain area called locus coeruleus? (2) Which proteins play crucial roles in novelty-induced memory enhancement in the hippocampus? Identification of proteins that enhance memory retention will have the potential to reveal new drug targets for treatment or restoration of lost memory function. These expected outcomes may also lead to development of efficient teaching methods.

**YONGHUI ZENG**

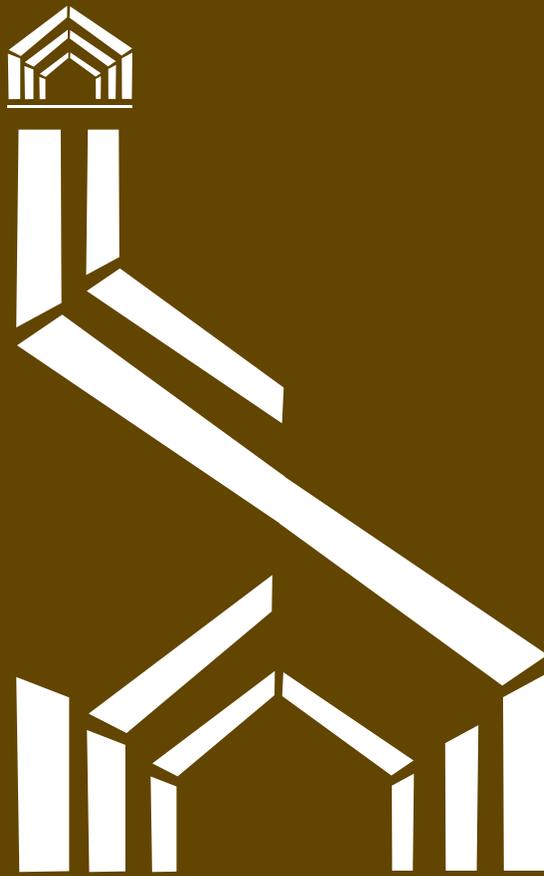
AIAS COFUND Fellow

Associate Professor, previously Department of Phototrophic Microorganisms, Institute of Microbiology, Academy of Sciences, Czech Republic

**Area of Research: Environmental Microbiology****Project title:** 'Ecological Genomics of Phototrophic Gemmatimonadetes Bacteria in Diverse Environments'

My area of research interest lies in Environmental Microbiology. I have always been fascinated by the enormous diversity of bacteria living in nature. So much is unknown about our microbial Earth. One particular focus of my study is on the recently found group of photosynthetic bacteria called *Gemmatimonadetes*. In 2018, I was eventually able to find its second member from Greenland in pure culture in the laboratory. Currently I am looking at its genome and physiology and trying to answer the question of its origin of photosynthesis system.

# FELLOWS' PUBLICATIONS AND ACTIVITIES



# FELLOWS' PUBLICATIONS AND ACTIVITIES

## PUBLICATIONS: BOOKS, BOOK CHAPTER

**Btihaj Ajana** is editor of the book *Metric Culture: Ontologies of Self-Tracking Practices*. The UK: Emerald Publishing Ltd., 2018.

**Btihaj Ajana** is author of the book chapter 'Introduction: Metric Culture and the Over-Examined Life' in: *Metric Culture: Ontologies of Self-Tracking Practices* by Btihaj Ajana. The UK: Emerald Publishing Ltd., 2018.

**Darin Stephanov** is author of the book chapter "Bulgar Milleti Nedir? Syncretic Forms of Belonging in Mid-Nineteenth-Century Istanbul" in: *'Istanbul - 'Kushta' - 'Constantinople': Diversity of Identities and Personal Narratives in the Ottoman Capital (1830-1900)* by Richard Wittmann and Christoph Herzog (eds.). Routledge, 2018.

**Darin Stephanov** is author of the book *Ruler Visibility and Popular Belonging in the Ottoman Empire, 1808-1908*. Edinburgh University Press, 2018.

**Andrew G. Newby** is author of the book chapter 'Overcoming Amnesia? Memorializing Finland's "Great Hunger Years"' in: *The Great Famine and its Legacies: Visual and Material Culture* by Marqu rite Corporaal et al (eds.). Liverpool University Press, 2018.

**Franco De Angelis** is author of the book *Archaic and Classical Greek Sicily. A Social and Economic History*. Oxford University Press, 2018.

**Jessica D. Wiskus** is author of the book chapter 'Merleau-Ponty on Simultaneity and Succession: The Turn to Music through Proust and Claudel' in: *Understanding Maurice Merleau-Ponty, Understanding Modernism* by Ariane Mildenberg (ed). London: Bloomsbury, 2018.

**Isabelle Torrance** is author of the book *Euripides (Understanding Classics)*. London: Bloomsbury Press, 2019.

**Adeline Masquelier** is author of the book *Fada: Boredom and Belonging in Niger*. Chicago: University of Chicago Press, 2019.

**Joshua Nash** is author of the book chapter 'Minority Contact Languages, Small Islands, and Linguistic Ecology' in: *The Palgrave Handbook of Minority Languages and Communities* by Gabrielle Hogan-Brun et al (eds.). Palgrave, 2019.

**Isabelle Torrance** is author of the book *Euripides: Iphigenia among the Taurian*. London: Bloomsbury Press, 2019.

**Adeline Masquelier** is author of the book chapter 'Contested Models of Islamic Worship in Dogondoutchi, Niger' in: *Approaches to Islam and the Qur'an in Sub-Saharan Africa* by Zulfikar Hirji (ed.). Oxford University Press, 2019.

**Rasmus O. Bak** is author of the book chapter 'Electroporation-Based CRISPR/Cas9 Gene Editing Using Cas9 Protein and Chemically Modified sgRNAs' in: *Methods in Molecular Biology*. Humana Press, 2019.

**Adeline Masquelier** is author of the book chapter 'Forging Connections, Performing Distinctions: Youth, Fashion, and Consumption in Niger' [Reprinted] in: *The Anthropology of Dress and Fashion: A Reader* by Brent Luvaas et al (eds.). Bloomsbury, 2019.

** scar J. Mart n Garcia** is co-editor of the book *Machineries of Persuasion: European Soft Power and Public Diplomacy during the Cold War*. De Gruyter, 2019.

** scar J. Mart n Garcia** is co-author of the book chapter 'Machineries of Persuasion: European Soft Power and Public Diplomacy during the Cold War' in: *Machineries of Persuasion: European Soft Power and Public Diplomacy during the Cold War* by  scar J. Mart n Garcia et al (eds.). De Gruyter, 2019.

**Adeline Masquelier** is author of the book chapter 'Young Men of Leisure? Youth, Conspicuous Consumption, and the Performativity of Dress in Niger' in: *'Conspicuous Consumption in Africa'* by Deborah Posen et al (eds.). Wits University Press, 2019.

**Nicholas Vrousalis** is author of the book chapter 'Revolutionary Principles and Strategy in: The November Revolution: The Case of the USPD' in: *The German Revolution and Political Theory* by G. Kets et al (eds.). Palgrave Macmillan, 2019.

**Adeline Masquelier** is author of the book chapter 'Are Spirits Satanic? The Ambiguity of Evil in Niger' in: *Engaging Evil: A Moral Anthropology* by William C. Olsen et al (eds.). Berghahn Books, 2019.

**Andrew Faulkner** is author of the book chapter 'Paraphrase and Metaphrase' in: *The Oxford Handbook of Early Christian Biblical Interpretation* by Paul Blowers (eds). Oxford University Press, 2019.

**Jessie Fillerup** is author of the book chapter 'What If? Counterfactual Thinking and Primary Source Study' in: *The Norton Guide to Teaching Music History* by C. Matthew Balensuela (ed.). W. W. Norton, 2019.

**Isabelle Torrance** is author of the book chapter 'Tragedy in Old Comedy' in: *The Encyclopedia of Greek Comedy* by A. Sommerstein (ed.). Oxford: Wiley, 2019.

## PUBLICATIONS: JOURNAL ARTICLES

**Tomasz K. Wojdacz** is co-author of the article 'Chronic lymphocytic leukemia patients with heterogeneously or fully methylated LPL promotor display longer time to treatment' in: *Epigenomics*, 5 September 2018.

**Naicheng Wu** is first-author of the article 'Flow regimes filter species traits of benthic diatom communities and modify the functional features of lowland streams – a nationwide scale study.' in: *Science of The Total Environment*, 17 September 2018.

**Rasmus O. Bak** is co-author of the article 'Enhanced Tailored MicroRNA Sponge Activity of RNA Pol II-Transcribed TuD Hairpins Relative to Ectopically Expressed ciRS7-Derived circRNAs' in: *Molecular Therapy – Nucleic Acids*, 20 September 2018.

**Morten Kyndrup** is author of the review article 'Syn for sagn for alvor. Klogskab og tyngde hos Pia Tafdrup' in: *Standart* no. 2, 2018.

**Morten Kyndrup** is author of the review article 'Formen er alt, men ikke nok. To nye udgivelser af Pia Juul' in: *Standart* no. 2, 2018.

**Anja Bechmann** is first-author of the article 'Are We Exposed to the Same "News" in the News Feed? An Empirical Analysis of Filter Bubbles as Information Similarity for Danish Facebook Users' in: *Journal of Digital Journalism*, 27 September 2018.

**Anna Neuheimer** is co-author of the article 'Modelled larval connectivity of a multi-species reef fish and invertebrate assemblage off the coast of Moloka' in: *PeerJ*, 28 September 2018.

**Peter Teglbjerg Madsen** is co-author of the article 'A 2.6-sg sound and movement tag for studying the acoustic scene and kinematics of echolocating bats' in: *Methods in Ecology and Evolution*, 16 October 2018.

**Sãmia Joca** is co-author of the article 'S-ketamine reduces marble burying behaviour: Involvement of ventromedial orbitofrontal cortex and AMPA receptors' in: *Neuropharmacology* 144, 29 October 2018.

**Morten Kyndrup** is author of the review article 'At være umulig: Antihelt på tyrkisk eventyr' in: *Standart*, vol. 32, issue 3, October 2018.

**Morten Kyndrup** is author of the review article "'Jeg ved, jeg er mange": Spredte stemmer i ny digtsamling' in: *Standart*, vol. 32, issue 3, October 2018.

**Lucia Angelino** is author of the article 'Motor intentionality and the intentionality of improvisation: a contribution to a phenomenology of musical improvisation' in: *Continental Philosophy Review*, 11 November 2018.

**Yonghui Zeng** is the co-corresponding author of the paper 'Aerobic Anoxygenic Phototrophic Bacteria Promote the Development of Biological Soil Crusts' in: *Frontiers in Microbiology*, 13 November 2018.

**Frants H. Jensen** and **Peter Teglbjerg Madsen** and co-authors have published the article 'A bigger nose, a bigger bang: size matters for echolocating toothed whales' in: *Current Biology*, 15 November 2018.

**Tomonori Takeuchi** is the co-author of the review article 'Novelty and Dopaminergic Modulation of Memory Persistence: A Tale of Two Systems.' in: *Trends of Neuroscience*, 16 November 2018.

**Shubiao Wu** is co-author of the article 'Innovative operation of microbial fuel cell-based biosensor for selective monitoring of acetate during anaerobic digestion' in: *Science of the Total Environment*, Vol 655, 23 November 2018.

**Naicheng Wu** is co-author of the article 'How successful are the restoration efforts of China's lakes and reservoirs?' in: *Environment International*, 29 November 2018.

**Doug Speed** is first-author of the article 'SumHer better estimates the SNP heritability of complex traits from summary statistics' in: *Nature Genetics*, 3 December 2018.

**Federica Bertolotti** is co-author of the article 'Size-Dependent Fault-Driven Relaxation and Faceting in Zincblende CdSe Colloidal Quantum Dots' in: *ASC Nano*, 5 December 2018.

**Luís Pedro Viegas** is author of the paper 'Exploring the Reactivity of Hydrofluoropolyethers toward OH through a Cost-Effective Protocol for Calculating Multiconformer Transition State Theory Rate Constants' in: *Journal of Physical Chemistry A*, 6 December 2018.

**Naicheng Wu** is corresponding author of the article 'Riverine phytoplankton functional groups response to multiple stressors variously depending on hydrological periods' in: *Ecological Indicators*, 9 January 2019.

**Shubiao Wu** and **Dennis Konnerup** are co-authors of the article 'Impact of engineered nanoparticles on microbial transformations of carbon, nitrogen, and phosphorus in wastewater treatment processes – A review' in: *Science of the Total Environment*, 11 January 2019.

**Sãmia Joca** is first author of the article 'Nitric oxide signalling and antidepressant action revisited' in: *Cell and Tissue Research*, 16 January 2019.

**Rima Obeid** is co-author of the article 'Vitamin B12-fortified toothpaste improves vitamin status in elderly people: a randomized, double-blind, placebo-controlled study' in: *Aging Clinical and Experimental Research*, 24 January 2019.

**Isabelle Torrance** is author of the review article 'Rezension zu: Nooter, Sarah: The Mortal Voice in the Tragedies of Aeschylus. Cambridge 2017' in: *H-Soz-Kult*, 28 January 2019.

**Doug Speed** and **Søren Østergaard** are co-authors of the article 'Investigating the causal relationship between neuroticism and depression via Mendelian randomization' in: *Acta Psychiatrica Scandinavica*, 29 January 2019.

**Naicheng Wu** is co-author of the article 'Networks reveal the stream community structures of fish, macroinvertebrate and benthic algae, and their responses to nutrient enrichment' in: *Ecological Indicators*, 29 January 2019.

**Anja Bechmann** is first-author of the article 'Unsupervised by any other name: Hidden layers of knowledge production in artificial intelligence on social media' in: *Big Data & Society*, 5 February 2019.

**Asad Jan** is co-author of the article 'Translational control in brain pathologies: biological significance and therapeutic opportunities' in: *Acta Neuropathologica*, 9 February 2019.

**Naicheng Wu** is co-author of the article 'Microbial organic matter utilization in High-Arctic streams: key enzymatic controls' in: *Microbial Ecology*, 10 February 2019.

**Naicheng Wu** is co-author of the article 'Correlation of Fish Assemblages with Habitat and Environmental Variables in a Headwater Stream Section of Lijiang River, China' in: *Sustainability*, 21 February.

**Sâmia Joca** is co-author of the article 'Dual mechanism of TRKB activation by anandamide through CB1 and TRPV1 receptors' in: *PeerJ*, 21 February.

**Luis P. Viegas** is author of the article 'Multiconformer transition state theory rate constants for the reaction between OH and -dimethoxy-fluoropolyethers' in: *International Journal of Chemical Kinetics*, 27 February 2019.

**Rasmus O. Bak** is corresponding author of the article 'Therapeutic gene editing in haematological disorders with CRISPR/Cas9' in: *British Journal of Haematology*, 12 March 2019.

**Jessica L. Barker** is co-author of the article 'Content, cost, and context: A framework for understanding human signaling systems' in: *Evolutionary Anthropology*, 14 March 2019.

**Lucia Angelino** is author of the article 'Les frontières entre réel et imaginaire à l'épreuve des promenades sonores in situ (Soundwalks)' in: *Aisthesis*, 19 March 2019.

**Nicholas Vrousalis** is author of the article 'Workplace Democracy implies Economic Democracy' in: *Journal of Social Philosophy*, 19 March 2019.

**Sâmia Joca** is co-author of the article 'Prelimbic neuronal nitric oxide synthase inhibition exerts antidepressant-like effects independently of BDNF signalling cascades' in: *Acta Neuropsychiatry*, 20 March 2019.

**Anni Kleino** is first-author of the article 'Regulation of the Drosophila Imd pathway by signaling amyloids' in: *Insect Biochemistry and Molecular Biology*, 21 March 2019.

**Peter Dalsgaard** is co-author of the article 'Introduction to Human-Building Interaction (HBI): Interfacing HCI with Architecture and Urban Design' in: *Special Issue on Human-Building Interaction* in: *ACM Transactions on Computer-Human Interaction (TOCHI)*, March 2019.

**Peter Dalsgaard** is editor of the *Special Issue on Human-Building Interaction* in: *ACM Transactions on Computer-Human Interaction (TOCHI)*, March 2019.

**Joshua Nash** is author of the article 'The long and short of it. Vowel length, placenames, and ecolinguistics' in: *Language Ecology*, March 2019.

**Sâmia Joca** is co-author of the article 'New evidence for refinement of anesthetic choice in procedures preceding the forced swimming test and the elevated plus-maze' in: *Behavioural Brain Research*, 9 April 2019.

**Nikolaj T. Zinner** is co-author of the article 'Controllable two-qubit swapping gate using superconducting circuits' in: *Physical Review B*, 10 April 2019.

**Nikolaj T. Zinner** is co-author of the article 'Realizing time crystals in discrete quantum few-body systems' in: *Physical Review B*, 11 April 2019.

**Jennifer Galloway** is co-author of the article 'Pathways for ecological change in Canadian High Arctic wetlands under rapid twentieth century warming' in: *Geophysical Research Letters*, 11 April 2019.

**Sâmia Joca** is co-author of the article 'Activation of the TRKB receptor mediates the panicolytic-like effect of the NOS inhibitor aminoguanidine' in: *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 13 April 2019.

**Dennis Konnerup** is co-author of the article 'Rice acclimation to soil flooding: Low concentrations of organic acids can trigger a barrier to radial oxygen loss in roots' in: *Plant, Cell and Environment*, 15 April 2019.

**Mads Vaarby Sørensen** is first-author of the article 'Potassium acts through mTOR to regulate its own secretion' in: *JCI Insight*, 23 April 2019.

**Jennifer Galloway** is co-author of the article 'Inter-annual Arcellinida (testate lobose amoebae) assemblage dynamics within lacustrine environments' in: *Limnologia*, 27 April 2019.

**Sãmia Joca** is co-author of the article 'Emerging evidence for the antidepressant effect of cannabidiol and the underlying molecular mechanisms' in: *Journal of Chemical Neuroanatomy*, 27 April 2019.

**Nicholas Vrousalis** is author of the article 'Erfurt Plus Councils: The Distinctive Relevance of the German Revolution of 1918-19' in: *Socialist History* 55, 29 April 2019.

**Anni Kleino** is co-author of the article 'IIV-6 Inhibits NF- $\kappa$ B Responses in *Drosophila*' in: *Viruses*, 1 May 2019.

**Peter Dalsgaard** is co-author of the article 'Potentials and Challenges for User-generated Video Content in Public Libraries'. *Proceedings of CHI 2019*, Extended Abstracts, May 2019.

**Peter Dalsgaard** is co-author of the article 'Mapping the Landscape of Creativity Support Tools in Human-Computer Interaction'. *Proceedings of CHI 2019*, paper 389. ACM, May 2019.

**Rasmus O. Bak** is co-author of the article 'Highly Efficient and Marker-free Genome Editing of Human Pluripotent Stem Cells by CRISPR-Cas9 RNP and AAV6 Donor-Mediated Homologous Recombination' in: *Cell Stem Cell*, 2 May 2019.

**Rasmus O. Bak** is co-author of the article 'CRISPR/Cas9 Genome Engineering in Engraftable Human Brain-Derived Neural Stem Cells' in: *iScience*, 4 May 2019.

**Luis P. Viegas** is author of the article 'Theoretical determination of the OH-initiated oxidation rate constants of  $\alpha,\omega$ -dialkoxyfluoropolyethers' in: *Theoretical Chemistry Accounts*, 6 May 2019.

**Jennifer Galloway** is co-author of the article 'An evaluation of methodologies for calibrating Itrax X-ray fluorescence counts with ICP-MS concentration data for discrete sediment samples' in: *Chemical Geology*, 11 May 2019.

**Shubiao Wu** is co-author of the article 'Exploring stability indicators for efficient monitoring of anaerobic digestion of pig manure under perturbations' in: *Waste Management*, 13 May 2019.

**Rasmus O. Bak** is corresponding author of the article 'The Potential of CRISPR/Cas9 in Hematotherapy' in: *Stem Cells and Development*, 15 May 2019.

**Jennifer Galloway** is co-author of the article 'Sub-bottom acoustic profiling as a remediation assessment tool for contaminated lakes' in: *SN Applied Sciences*, 16 May 2019.

**Jennifer Galloway** is co-author of the article 'Seasonal variation of arsenic and antimony in surface waters of small subarctic lakes impacted by legacy mining pollution near Yellowknife, NT, Canada' in: *Science of the Total Environment*, 21 May 2019.

**Nicholas Vrousalis** is author of the article 'How exploiters dominate' in: *Review of Social Economy* 77, 3 June 2019.

**Sãmia Joca** is co-author of the review article 'P2X7 Receptor Signaling in Stress and Depression' in: *International Journal of Molecular Sciences*, 6 June 2019.

**Lucia Angelino** is the author of the article 'Motor Intentionality and the intentionality of improvisation: a contribution to a phenomenology of musical improvisation', in: *Continental Philosophy Review*, vol. 52, issue 2, June 2019, pp. 203-224.

**Darin Stephanov** is the author of the article 'Salvos and Sovereignty: Comparative Notes on Ceremonial Gunfire in the Late Ottoman and Russian Empires', in: *Journal of the Ottoman and Turkish Studies Association*, vol. 6, No. 1, June 2019.

**Renée Marije van der Sluis** is guest editor of the research topic 'Exploring Novel Approaches to Eliminate HIV Reservoirs to Achieve a Cure for HIV' in: *Journal Frontiers in Cellular and Infection Microbiology*, June 2019.

**Martin Holmstrup** is co-author of the article 'Fast attrition of springtail communities by experimental drought and richness-decomposition relationships across Europe' in: *Global Change Biology*, 17 June 2019.

**Nikolaj T. Zinner** is co-author of the article 'Most scientists prefer small and mid-sized research grants' in: *Nature Human Behaviour*, 17 June 2019.

**Nikolaj T. Zinner** is co-author of the article 'Correlated Gaussian approach to anisotropic resonantly interacting few-body systems' in: *Journal of Physics B: Atomic, Molecular and Optical Physics*, 27 June 2019.

**Peter Dalsgaard** is co-author of the paper 'Towards a Research Agenda for Gameful Creativity'. DIS '19: Proceedings of the 2019 Conference on Designing Interactive Systems, Extended Abstracts: *Association for Computing Machinery (ACM)*. June 2019.

**Peter Dalsgaard** is co-author of the paper 'Strategies in Creative Professionals' Use of Digital Tools Across Domains'. Proceedings of Creativity & Cognition 2019, in: *ACM*, June 2019.

**Nikolaj T. Zinner** is co-author of the article 'Effective approach to impurity dynamics in one-dimensional trapped Bose gases' in: *Physical Review A*, 16 July 2019.

**Peter Dalsgaard** is co-author of the paper 'Human-building interaction: sketches and grounds for a research program' in: *Interactions* 26, July 2019.

**Thomas Tauris** is co-author of the article 'Mass transfer on a nuclear timescale in models of supergiant and ultra-luminous X-ray binaries' in: *Astronomy & Astrophysics (A&A)*, 29 July 2019.

**Doug Speed** and **Søren D. Østergaard** are co-authors of the article 'Investigating the association between body fat and depression via Mendelian randomization' in: *Nature Translational Psychiatry*, 5 August 2019.

**Isabelle Torrance** is author of the book review of L. P. E. Parker: 'Euripides: Iphigenia in Tauris. Edited with Introduction and Commentary' in *Hermathena* 198 (2019 [2015]) 99-102, August 2019.

## EXTERNAL ACADEMIC ACTIVITIES

**Isabel Kusche** gave the talk 'Finanzkrise und politische Krise: Griechenland und Irland im Vergleich' at the conference 'Taking back control. Zur globalen Finanzkrise und den Ambitionen einer Steuerung des Finanzsystems', Schader-Stiftung Darmstadt, Germany, 6-7 September 2018.

**Federica Bertolotti** gave the talk 'Advanced X-ray Total Scattering Methods based on the Debye Scattering Equation for characterizing nanomaterials' at the NanoInnovation 2018 conference, Rome, Italy, 11-14 September 2018.

**Darin Stephanov** gave the paper presentation, 'Military Journeys and Trans-Imperiality: The Russian-Ottoman Encounters of the Late 1820s and the Early 1830s' at the 23rd Biennial Conference of the Comité International des Études Pré-Ottomanes et Ottomanes (CIEPO), New Bulgarian University, Sofia, Bulgaria, 11-15 September 2018.

**Isabel Kusche** gave the talk 'Gender Quotas in the 2016 Irish General Election' at the Centre for Irish Studies, Aarhus University, Denmark, 12 September 2018.

**Magnus Kjærsgaard** gave the talk 'Quantifying the functions of flexible protein linkers: Effects on catalysis and avidity' at The Nordic EMBL Partnership, Oslo, Norway, 13 September 2018.

**Naicheng Wu** gave the talk 'Riverine algal traits as water scarcity indicators' at the symposium on 'Integrated Disaster Risk Management under Multiple Climatic and Socioeconomical Scenarios', Nanjing, China, 17-22 September 2018.

**Anja Bechmann** gave the invited talk 'Innovation og etik' at the Digital2018 – Robotics in Business conference, Aarhus BSS, Aarhus University, Denmark, 19 September 2018.

**Federica Bertolotti** was an invited lecturer at the Powder Diffraction School in Villigen, Switzerland, 24-28 September 2018.

**Yonghui Zeng** gave the talk 'Culturomics of Photosynthetic Bacteria in the High Arctic: from Field Work to MALDI-TOF MS Screening to Nanopore Sequencing' at The National Research Center for Work Environment, Copenhagen, Denmark, 25 September 2018.

**Rasmus O. Bak** gave the talk 'Gene Correction in Hematopoietic Stem Cells by CRISPR/Cas9' at the Meeting of The Danish Society of Clinical Immunology and The Danish Society of Hematology, at the Dept. of Clinical Immunology, Odense University Hospital, 26 September 2018.

**Tobias Wang** was hosting the panel on 'Eugenik – er arvehygiejne vejen til det gode liv?' [Eugenics] at Folkeuniversitet, DOKK1, Aarhus, 29 September 2018.

**Rasmus O. Bak** gave a talk and participated in the panel debate on 'Eugenik – er arvehygiejne vejen til det gode liv?' [Eugenics] at Folkeuniversitet, DOKK1, Aarhus, 29 September 2018.

**Morten Kyndrup** gave the invited talk 'From New Ideas to Defining a Research Agenda: A New Role for IAS' at the conference 'Research Agenda Setting and the Way Ahead with Respect to Networking and Collaboration', Herrenhausen Palace, Hannover, Germany, 8 October 2018.

**Isabelle Torrance** gave the invited talk 'Prometheus and the IRA in the late 1980s' at the Centre for Irish Studies, Aarhus University, 10 October 2018.

**Yonghui Zeng** visited the Center ALGATECH at the Institute of Microbiology, Czech Academy of Sciences at Trebon, to conduct collaborative research on new phototrophic bacteria isolated from Greenland, 10-22 October 2018.

**Magnus Kjærsgaard** gave the talk on memory and molecules 'Hukommelsens molekyler' for the Academy for talented young people, Akademiet for Talentfulde Unge, Aarhus University, 11 October 2018.

**Magnus Kjærsgaard** gave the talk on memory and molecules 'Hukommelsens molekyler' for high-school students and teachers at Grenaa Gymnasium, 12 October 2018.

**Yonghui Zeng** gave the talk 'Phototrophic Gemmatimonadetes Bacteria: Everywhere but Resist Cultivation – A Story of Isolation of Its Second Member from a Stream in Greenland' at the 3rd Regional Symposium on Aquatic Microbial Ecology, Prague, Czech Republic, 17-19 October 2018.

**Isabelle Torrance** co-organized the AIAS conference 'Politics and Narrative in Ireland's Decade of Commemorations' and gave the paper 'Oedipus in Derry (2013) and in Dublin (2015): Political Readings of Greek Tragedy North and South of the Border', AIAS, 23-25 October 2018.

**Sãmia Joca** gave the lecture 'What we have learnt from stress models' at the course 'Mechanisms of stress- from models to disease', University of Tartu, Estonia, 25-26 October 2018.

**Jessie Fillerup** gave the talk 'To Clarify, Yes/No on the Crazy: Permeable Structures and Mental Health in *Crazy Ex-Girlfriend*' at the Music & Multimedia joint session, American Musicological Society and Society for Music Theory, San Antonio, Texas, 2 November 2018.

**Jessie Fillerup** gave the talk 'Ravel's Magic Circle' at the Society for Music Theory, San Antonio, Texas, 4 November 2018.

**Lucia Angelino** gave the talk 'Action prediction in Joint Improvised multi-agents' action' at the workshop on Social Cognition organized by the Dept. of Language, Cognitive Science and Semiotics, Aarhus University & Interacting Minds Center, Aarhus University, 5-6 November 2018.

**Adeline Masquelier** gave the invited lecture 'Tea Circles: Youth, Place-Making, and the Transience of Infrastructure in Urban Niger' at the Dept. of Anthropology, Aarhus University, Denmark, 7 November 2019.

**Luís Pedro Viegas** gave the plenary talk 'Reactivity of hydrofluoropolyethers towards OH: a cost-effective implementation of multiconformer transition state theory' at the XIV Workshop em Física Molecular e Espectroscopia, Belo Horizonte, Brazil, 7-10 November 2018.

**Adeline Masquelier** gave the lecture 'Tea Circles: Youth, Place-making, and the Transience of Infrastructure in Urban Niger' at the Dept. of Anthropology, Aarhus University, 8 November 2018.

**Luís Pedro Viegas** had a research stay at the CEFET-MG – Centro Federal de Educação Tecnológica de Minas Gerais and taught a graduate course entitled 'Transition State Theory: practical aspects', Belo Horizonte, Brazil, 12-21 November 2018.

**Magnus Kjærgaard** gave the talk 'Quantifying the functions of flexible protein linkers: Effects on catalysis and avidity' at the Linderstrøm-Lang Symposium, University of Copenhagen, 16 November 2018.

**Rasmus O. Bak** gave the talk 'Gene editing is coming to the clinic' at the 22nd Annual Haematology Forum in London, 19 November 2018.

**Rasmus O. Bak** gave the talk 'Recent advances in CRISPR/Cas9 gene correction in hematopoietic stem cells' at the Launch Symposium for the Innovation Fund Denmark funded CRISPR/Cas Center at Aarhus University, 23 November 2018.

**Lucia Angelino** gave the talk 'Shared Temporal Field as Tool of Collective Prediction in Joint Improvised Action' at the third Worlding the Brain conference, Aarhus Institute of Advanced Studies, Denmark, 27-29 November 2018.

**Jessie Fillerup** gave the lecture 'Pianos, Goblin Drums, and the Wizard's Monster Band: Music in 19th-Century Magic Shows', Dept. of Music, Aarhus University, 27 November 2018.

**Adeline Masquelier** gave the talk 'Mapping the Terrain of African Studies' as part of a panel on 'Critical Terms for the Study of Africa' at the African Studies Association, Atlanta, GA, USA, 30 November 2018.

**Adeline Masquelier** gave the talk 'Boredom and Belonging: Youth Making their Place in Niger' at the Distinguished Lecture Series at the Dept. of Anthropology, University of Wisconsin, Madison, USA, 3 December 2018.

**Joshua Nash** gave the paper 'Inside(r) – Outside(r): Toward a Linguistics and Sociology of Space on Pitcairn Island' at the Pacific History Association conference, Cambridge, UK, 4 December 2018.

**Rasmus O. Bak** gave the talk 'CRISPR/Cas9 gene editing' and participated in the panel debate at the 'CRISPR'n'Cake IV' series, organized by BioBarakken, Aarhus University, 5 December 2018.

**Joshua Nash** chaired an international workshop of language contact scholars from around Europe entitled 'European Creole Languages Workshop', Sandbjerg Estate, Denmark, 6-7 December 2018.

**Darin Stephanov** presented the paper 'From Court Ceremonies to the Common Wo/man: Monarchic Visibility and Modern Belonging in the Late Russian and Ottoman Empires' at the conference on 'Monarchy and Modernity since 1500', University of Cambridge, UK, 8-9 January 2019.

**Nicholas Vrousalis** gave the keynote talk 'Domination and Inequality', Chaire Hoover, UC Louvain, 22 January 2019.

**Nicholas Vrousalis** gave the talk 'Domination and Inequality', Aarhus University, 5 February 2019.

**Anni Kleino** gave the invited talk on 'Functional amyloids in the regulation of innate immune signaling' at the Haartman Institute, University of Helsinki, Finland, 14 February 2019.

**Nicholas Vrousalis** gave the keynote talk 'How exploiters dominate', Dept. of Philosophy, University of Copenhagen, 18 February 2019.

**Thomas Tauris** gave the public talk 'Gravitationsbølger - 'En begivenhed der rystede verden' at Folkeuniversitetet Herning, 21 February 2019.

**Jessie Fillerup** co-organized the international conference 'Contested Frequencies: Sonic Representation in the Digital Age', University of Richmond, Virginia, USA, 22-24 February 2019.

**Rasmus O. Bak** gave the talk 'CRISPR/Cas gene editing – status and perspectives' at the Steno Diabetes Center Aarhus and the Clinic for Diabetes and Endocrinology, Aarhus University Hospital, 28 February 2019.

**Nicholas Vrousalis** gave the talk 'Structural Domination', London School of Economics, UK, 3 March 2019.

**Thomas Tauris** gave the talk 'Gravitational waves, X-ray binaries and supernovae - a new era of multidisciplinary research' at the Anton Pannekoek Institute (API), University of Amsterdam, the Netherlands, 6 March 2019.

**Christina Kkona** was co-organizer of a panel and gave the paper 'Nativism or Tsirka's drifting Cosmopolitanism' at the annual meeting of American Comparative Literature Association, Georgetown University, Washington, D.C., USA, 7-10 March 2019.

**Adeline Masquelier** gave the invited talk 'Waiting for Thieves: Youth, Boredom, and the Labor of Sitting in Niger' at the Dept. of Anthropology, University of Copenhagen, 8 March 2019.

**Jessie Fillerup** gave the seminar lecture 'Musical Temporality and Theatrical Magic' at the RITMO Centre for Interdisciplinary Studies in Rhythm, Time, and Motion, University of Oslo, 12 March 2019.

**Lucia Angelino** gave the talk 'Jazz Musicians and the riddle of Group Improvisation: what can phenomenology bring to these debates?' at the Dept. of Media, University of Copenhagen, 12 March 2019.

**Rasmus O. Bak** gave the talk 'Genome engineering of hematopoietic stem cells using CRISPR/Cas9' and acted as chair at the Symposium of Disruptive Technologies: Reading, Writing and Editing, Aarhus University, 14 March 2019.

**Thomas Tauris** gave the NBIA Colloquium on 'Neutron Stars, Black Holes and Gravitational Waves' at the Niels Bohr International Academy (NBIA), Copenhagen University, 15 March 2019.

**Rasmus O. Bak** gave the talk 'CRISPR-teknologiens status og kliniske perspektiver' at the Dept. of Rheumatology, Aarhus University Hospital, 20 March 2019.

**Adeline Masquelier** gave the invited talk 'Spirited Places: Jinns, Schooling, and the Burden of the Past in Niger', Center of African Studies, University of Copenhagen, 21 March 2019.

**Thomas Tauris** gave the public talk 'Gravitationsbølger - 'En begivenhed der rystede verden' at Folkeuniversitetet, Campus Emdrup Aarhus University, 26 March 2019.

**Rasmus O. Bak** gave the talk 'Status and future of CRISPR gene therapy' at the Annual meeting of the Biomedical Laboratory Scientists, Aarhus University Hospital, 28 March 2019.

**Thomas Tauris** gave the talk 'Gravitational waves, X-ray binaries and supernovae - a new era of multidisciplinary research' at the Colloquium of the Albert Einstein Institute (AEI) / Max Planck Institute for Gravitational Physics, Potsdam, 3 April 2019.

**Dennis Konnerup** gave the guest talk 'The role of plants in constructed wetlands' at Universidad Autónoma del Estado de México, Mexico, 3 April 2019.

**Isabelle Torrance** gave the invited keynote lecture 'Classical Literature and Irish Politics: A New Look at an Old Question' at the EURIAS Annual Conference hosted by AIAS, 4 April 2019.

**Rasmus O. Bak** gave the talk 'CRISPR/Cas9-based genome editing – strategies and perspectives' at the Annual meeting in the Danish Society of Medical Genetics, Nyborg, Denmark, 5 April 2019.

**Jennifer Galloway** presented the poster 'Late Jurassic-Early Cretaceous carbon isotope stratigraphy of Arctic Canada' and gave two co-authored talks 'Early Eocene hyperthermals recorded in terrestrial sediments of the Canadian Arctic (Stenkul Fiord, Ellesmere Island): evidence from new carbon isotope data' and 'Palynology of Arctic hyperthermal (PETM and ETM-2) vegetation from the early Paleogene Margaret Formation at Stenkul Fiord, Ellesmere Island, Nunavut, Canada' at the European Geosciences Union General Assembly in Vienna, Austria, 7-13 April 2019.

**Thomas Tauris** gave the public talk 'Gravitationsbølger - 'En begivenhed der rystede verden' at Folkeuniversitetet, Aarhus University, 8 April 2019.

**Adeline Masquelier** gave the talk 'Enchanted Schools, Disenchanted Girls, and the Burden of the Past in Niger' at the Graduate Institute of International and Developmental Studies, Dept. of Anthropology and Sociology of Development, Geneva, Switzerland, 9 April 2019.

**Thomas Tauris** gave the invited talk 'Gravitationsbølger fra kolliderende neutronstjerner og sorte huller - fra science fiction til hot science' at the Alumnedag 2019, Dept. Physics and Astronomy, Aarhus University, 11 April 2019.

**Peter Dalsgaard** gave the invited talk 'Creativity and Computers' at the Digital Innovation Conference, Aarhus University, 11 April 2019.

**Thomas Tauris** gave the talk 'Gravitational waves, X-ray binaries and supernovae - a new era of multidisciplinary research' at Lund Observatory, Lund University, 25 April 2019.

**Adeline Masquelier** gave the talk 'Zigzag Politics: Tea, Ballots, and Agency in Niger' at the Maxwell African Scholars Union, Syracuse University, New York, USA, 26 April 2019.

**Joshua Nash** gave the talk 'Frames of spatial reference in the Pitcairn Islands (South Pacific)', Islands of Cognition conference, Reykjavík, University of Iceland, 26 April 2019.

**Renee van der Sluis** gave the talk 'Efficient HIV latency reversal with immune checkpoint blockade in a primary T cell latency model' and presented a poster at the European Virology Congress, Rotterdam, the Netherlands, 28 April – 2 May 2019.

**Rasmus O. Bak** gave the invited talk 'The path towards therapeutic gene editing in hematopoietic stem cells' at the University of Southern Denmark (SDU), Denmark, 29 April 2019.

**Sâmia Joca** gave the invited talk 'Emerging evidence for cannabidiol (CBD) as a promising new rapid-acting antidepressant' at the FAPESP-BAYLAT workshop 'Neural Basis of Stress, Fear and Anxiety' at the Max Planck Institute of Psychiatry in Munich, Germany, 1-5 May 2019.

**Peter Dalsgaard** was an invited speaker at Studio Olafur Eliasson and gave the talk 'Documenting Creative Work', Berlin, Germany, May 2019.

**Thomas Tauris** gave the invited talk entitled 'Gravitational waves, X-ray binaries and supernovae – a new era of multidisciplinary research' at the Annual Danish Astronomy Meeting 2019, Nyborg, 2-3 May 2019.

**Rasmus O. Bak** gave the invited talk 'Developing CRISPR-based genome engineering in hematopoietic stem cells' at the Danish Stem Cell Society's Annual Stem Cell Conference, Vejle, Denmark, 2 May 2019.

**Christina Kkona** co-organized the guest lecture by Juliane House on 'Translation as Communication across Languages and Cultures' at Aarhus University, Denmark, 3 May 2019.

**Isabelle Torrance** gave the invited talk 'The Politics of Emotion in Irish Medea's' at the Fondation Hardt, Geneva, Switzerland, 4 May 2019.

**Nicholas Vrousalis** gave the talk 'Structural Domination', Venice International University, 4 May 2019.

**Rasmus O. Bak** gave the invited talk 'Therapeutic applications of the CRISPR/Cas technology in hematopoietic stem cells' at the 15th International Symposium on Myelodysplastic Syndromes (MDS 2019), Copenhagen, Denmark, 8 May 2019.

**Joshua Nash** gave the talk 'I hope you good can suffer it', Lingoslam, Linguistics Discipline, Aarhus University, 10 May 2019.

**Nicholas Vrousalis** gave the talk 'How exploiters dominate', European University Institute, 20 May 2019.

**Thomas Tauris** gave a contributed talk at the Electron-Capture-Initiated Stellar Collapse Workshop, Lorentz Center, Leiden University, Germany, 20-24 May 2019.

**Doug Speed** gave the talk 'Using heritability enrichments to improve polygenic risk scores' at the iPSYCH Annual Meeting 2019, Korsør, Denmark, 21-23 May 2019.

**Thomas Tauris** gave the talk 'Neutron Stars and Black Holes: Mergers and More Magic' at the Danish Physical Society Annual Meeting 2019, Fænø Park, 27-28 May 2019.

**Jessie Fillerup** read the paper 'Heller's Wonders: Virtuoso Pianism as a Conjuring Effect' at the conference 'Theatre and the New Materialisms' hosted by Société Québécoise d'Études Théâtrales, Montreal, Canada, 27 May 2019.

**Nicholas Vrousalis** gave the keynote talk 'How exploiters dominate', School of Law, University of Edinburgh, UK, 29 May 2019.

**Jessie Fillerup** read the paper 'Classical Curios: Nostalgic Effect in Ravel's Minuets' at the biennial conference of the International Association for Word and Music Studies, Graz, Austria, 30 May 2019.

**Adeline Masquelier** presented the paper 'Naming the Future in Urban Niger: The Scriptural Economy of the Fadas', at Society for Urban, National and Transnational/Global Anthropology Meeting, San Juan, PR, May 2019.

**Lucia Angelino** gave the guest talk 'Love: an illusion or a poetic quest for truth?', Centre Universitaire de Norvège à Paris, Fondation Maison des Sciences de l'Homme, 6 June 2019.

**Adeline Masquelier** gave the talk 'Of Jinns and Schoolgirls: Possession, Ecological Thought, and the Burden of the Past in Niger' at the "Afterlives": A Symposium, University of Ghent, Belgium, 7 June 2019.

**Dennis Konnerup** co-organized the PhD course 'Use of wetlands in water pollution control' at Aarhus University, Denmark, 15-17 June 2019.

**Dennis Konnerup** gave the talk: 'Flooding tolerance in wetland plants – the effect of leaf gas films' and chaired the session 'Paludiculture' at the 8th International Symposium on Wetland Pollutant Dynamics and Control, Aarhus University, Denmark, 17-21 June 2019.

**Shubiao Wu** gave the talk 'How Can Intensified Constructed Wetlands Be Promising for Treatment of Ammonia Stripped Effluent with High Buffering Capacity of Alkalinity: Nitrogen Transformations and Removal Pathways' and chaired the session 'Industry Wastewater Treatment' where he also presented his research at the 8th International Symposium on Wetland Pollutant Dynamics and Control, Aarhus University, Denmark, 17-21 June 2019.

**Adeline Masquelier** presented the paper 'Crafting New Modes of Inhabiting the Street: The Fadas of Urban Niger' at European Conference on African Studies, Edinburgh, UK, June 2019.

**Anni Kleino** presented the poster 'Functional amyloids in the regulation of Drosophila lmd pathway signaling' at the conference Les conférences Jacques Monod: Immunologie intégrative des insectes: contrôle des infections, Roscoff, France, 24-28 June 2019.

**Lucia Angelino** presented the poster 'What is special about joint improvised action?' at the 8th bi-annual Joint Action Meeting annual meeting (JAM VIII), Istituto Italiano di Tecnologia, Genova, Italy, 11 July 2019.

**Sâmia Joca** presented the poster presentation and flash talk 'CBD induces antidepressant-like effects associated with changes in DNA methylation in the prefrontal cortex and hippocampus' at the Conference on Cannabinoid Function in the CNS, Castelldefels, Spain, 21-26 July, 2019.

**Dennis Konnerup** gave the invited keynote talk 'Leaf gas films improve submergence tolerance of plants in fresh and saline water' at the 6th Congress on salinity in Buenos Aires, Argentina, 22-25 July 2019.

**Joshua Nash** gave the talk 'I am a(n eco)linguist' at the International Congress on Ecolinguistics 4, Odense, Denmark, 13 August 2019.

**Joshua Nash** gave the talk 'Fut you car mark a chicken? (Why can't you mark a chicken?): Chicken, goat, and tree marking on Pitcairn Island', Tórshavn, University of Faroe Islands, 17 August 2019.

**Christina Kkona** gave the paper 'From Fingersmith to The Handmaiden: Queerness and Cross-cultural Adaptation' at the World Literatures and the Global South Conference 2019, Sidney University, Australia, 23-25 August 2019.

## AWARDS, APPOINTMENTS AND GRANTS

**Federica Bertolotti** was awarded the 'NEST Prize' of € 5,000 Euro for her research in nanoscience and nanotechnology by the Scuola Normale Superiore and Laboratorio NEST, 11 September 2018.

**Rasmus O. Bak** and Aarhus University collaborators have received a grant of DKK 25 million from Innovation Fund Denmark for the project 'Personalized approach to genome editing of stem cells for autotransplantation of monogenic immunodeficiencies.' The project seeks to bring gene editing therapies from the laboratory to the patient to cure patients born with inherited and deadly immune defects. Duration: 5 year. Granted: October 2018.

**Isabelle Torrance** was awarded an ERC Consolidator Grant of 1.9 million euros for a five year research project on 'Classical Influences and Irish Culture (CLIC)', starting on 1 October 2019. Granted on 29 November 2018.

**Sâmia Joca** has received a grant of DKK 7,117,000 from the São Paulo State Research Foundation (FAPESP) to find new perspectives in the use of drugs that modify atypical neurotransmitters in the treatment of neuropsychiatric disorders, December 2018.

**Sâmia Joca** has received a grant of DKK 1,658,430 from the São Paulo State Research Foundation (FAPESP) to identify epigenetic mechanisms induced by stress which modulate endocannabinoid signaling and neuroimmunological mechanisms as new therapeutic targets to treat the posttraumatic stress disorder (PTSD), December 2018.

**Sâmia Joca** has received a grant from the National Council of Science and Technology (CNPq), Brazil, to organize the II Brazilian Symposium of Neuropsychopharma (SBNP), December 2018.

**Sâmia Joca** has received a productivity fellowship from the National Council of Science and Technology (CNPq), Brazil. The grant is a recognition from the Brazilian government to the most productive researchers in the field. December 2018.

**Nikolaj T. Zinner** was recognized as an Outstanding Referee by APA, the American Physical Society's 'Outstanding Referee program' – a programme that is highly selective as only 143 out of about 71,000 active referees were appointed. 13 March 2019.

**Peter Dalsgaard** was appointed full professor of Interaction Design at Aarhus University and gave the inaugural lecture 'Creating (with) Computers', Aarhus University, 26 March 2019.

**Borbála Kovács** and collaborators received a grant for the project 'Cosmopolitan Turn and Democratic Sentiments. The case of child protection services - CONSENT' from the Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) by the Romanian Government and the Norway Grants. PI: Gabriel Badescu. Project duration: June 2019-May 2023. Granted on 28 March 2019.

**Jennifer Galloway** has received a grant as Primary Investigator of 261,000\$ CAD (1,293,216 DKK) by ArcticNet and 531,000 CAD (2,631,025 DKK) by Natural Resources Canada (Galloway is PI) for the project entitled 'Long-term hydrological dynamics of Canada's largest watershed: Climate controls on water quantity of the Mackenzie River basin' for the period 2019-2022. Received on 2 April 2019.

**Jennifer Galloway** has received a grant as co-Investigator of 389,870\$ CAD (1,931,747 DKK) by Natural Resources Canada Clean Growth Fund for the project 'Development of rapid, cost effective protocols for the determination of environmental baseline condition, land-use impact monitoring and the protection of aquatic ecosystem health in the mining sector'. Duration: 1 April 2019- 21 March 2021. Received April 2019.

**Jessie Fillerup** was elected vice-president of the International Association for Word and Music Studies, May 2019.

**Nicholas Vrousalis** has received the VIDI grant of €800,000 from Netherlands Organisation for Scientific Research (NWO) for the project 'Inequality against Freedom: Economic Power, Markets and Workplace'. Start date 1 June 2019.

## IN THE MEDIA

**Michael Bang Petersen** gave an interview to *Berlingske* for the article 'Glem truslen fra Rusland. Vi er selv de værste spredere af fake news' at b.dk, 14 September 2018.

**Tomasz K. Wojdacz** gave an interview to *BioPeople.eu*, Denmark's Life Science Cluster, about his research and the development of a technology to detect DNA methylation changes in biological material, 25 September 2018.

**Michael Bang Petersen** gave an interview to *Kristeligt Dagblad* for the newspaper article 'Er du en stærk mand? Så stemmer du nok liberalt', 3 October 2018.

**Rasmus O. Bak** gave an interview on CRISPR/Cas9 for the newspaper article 'Stephen Hawking forudsiger ny race af supermennesker' in *B.T.*, 15 October 2018.

**Morten Kyndrup** gave an interview to *ScienceReport* for the article 'Institut har sat forskerne fri og får glimrende evaluering' about the positive, international evaluation of AIAS, 16 October 2018.

**Rasmus O. Bak** gave an interview to *Videnskab.dk* for the article 'Kinesiske forskere: Verdens første genredigerede babyer er født' in which he commented on the news that Chinese researchers have carried out genetic editing on human embryos, 26 November 2018.

**Magnus Kjærgaard** is co-author of the article 'Naturens nanopumper fanget på film' in the popular science journal *Dansk Kemi*, 99, no 8, 27 November 2018.

**Såmia Joca** gave an interview about her research to *PsyPost* for the article 'Cannabidiol induces a rapid and long-lasting antidepressant effect in rodent model of depression', 28 November 2018.

**Tobias Wang** gave an interview to *Videnskab.dk* for the article 'Forskere knækker koden til gekkoers gakkede gangart på vand', 6 December 2018.

**Rasmus O. Bak** gave an interview to the Danish national newspaper *Information* for the article 'CRISPR: En genetisk schweizerkniv, som kan ændre menneskeheden for altid', 8 December 2018.

**Tobias Wang** gave an interview to *Weekendavisen* for the newspaper article 'Skabt til at vandre', 18 January 2019.

**Tobias Wang** gave an interview to the newspaper *Jyllands-Posten* for the article 'Forhistorisk landdyr går igen som robot', 18 January 2019.

**Peter Dalsgaard** gave an interview to *Videnskab.dk* for the article 'Løbeure og skridttællere hitter: Her er fordelene og faldgruberne ved selvmåling', 28 March 2019.

**Rasmus O. Bak** gave an interview to the Danish national broadcast *DR.dk* for the article on gene editing 'Dyr kureret for kræft med gen-redigering: Næste skridt er mennesket', 16 August 2019.

# AIAS EVENTS



AIAS is a platform for **disciplinary, inter- and multi-disciplinary exchange and collaboration**. Explore the many **conferences, symposia, workshops, guest lectures and the Fellows' Seminar Series** that Fellows, Aarhus University researchers and international collaborators have been engaged with at AIAS in the academic year of 2018-19. One house, **multiple topics and formats...**



## AIAS EVENTS

**AIAS & AU Joint Event:** 'Manage yourself in the media – a course on Media training.' One-day course organized by the AU Junior Researcher Development Programme and AIAS, 5 September 2018.

**Delegation visit from China:** Visit at AIAS by a delegation of 6 Chinese researchers from the field of bioscience. Short talks were given by Tenna Riis, Dept. of Bioscience, Aarhus University and AIAS Fellows Shubiao Wu and Naicheng Wu. Organized by AIAS Fellow Naicheng Wu, 5 September 2018.

**AIAS Fellows' Seminar:** 'Language, linguistics, aesthetics: Pitcairn Island' by AIAS Fellow Joshua Nash, 10 September 2018.

**AIAS & AU Joint Event:** 'Science communication and networking through social media'. Afternoon talk organized by AU Junior Researcher Development Programme and AIAS, 12 September 2018.

**AIAS Guest Lecture:** 'Orwell meets Darwin: Collective stupidity and the evolutionary politics of information' by Prof. John Tooby, University of California Santa Barbara, US. Invited by AIAS Fellow Michael Bang Petersen, 17 September 2018.

**AIAS Symposium:** *Cutting-Edge Technologies for Neurobiology.* One-day international symposium with experts from multidisciplinary fields who have introduced their development of cutting-edge technologies and the application of these techniques to answering

fundamental questions in neurobiology. Organized by AIAS Fellow Tomonori Takeuchi in collaboration with Associate Prof. Keisuke Yonehara, DANDRITE, Aarhus University, Denmark, 20 September 2018.

**AIAS Workshop:** Workshop for PhD students on noise analysis organized by AIAS Fellow Peter Teglberg Madsen, 20 September 2018.

**AIAS & AU Joint Seminar:** 'Equivalence(s): Seminar on translation'. Seminar co-organized by AIAS Fellow Christina Kkona and Merete Birkelund and Sébastien Doubinsky, French Studies, Aarhus University, 20-21 September 2018.

**AIAS Fellows' Seminar:** 'Echolocation: Finding food with sound' by AIAS Fellow Peter Teglberg, 24 September 2018.

**AIAS Guest Lecture:** 'When deep diving seals help us to observe rapidly changing of polar oceans' by Dr. Christophe Guinet, Université de la Rochelle-CNRS, France. Invited by AIAS Fellow Peter Teglberg Madsen, 26 September 2018.

**AIAS Fellows' Seminar:** 'The pace of life: Time, temperature and a biological "theory of relativity"' by AIAS Fellow Anna Neuheimer, 1 October 2018.

**AIAS Joint Research Presentation:** Extended one-day Fellows' Seminar with short 6-minute research presentations by all AIAS Fellows, 3 October 2018.

**AIAS at the Centre for Irish Studies:** Talk on 'Prometheus and the IRA in the late 1980s' by AIAS Fellow Isabelle Torrance. Organized and invited by the Centre for Irish Studies, Aarhus University, Denmark, 10 October 2018.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 23 October 2018.

**AIAS & CISA Conference:** *Politics and Narrative in Ireland's Decade of Commemorations*. Three-day international, multidisciplinary conference that brought together experts in history, film, theatre, classical reception, heritage management, gender studies, politics, and memory studies to examine the impact and significance of events in Ireland during the current decade of centenaries (2012-2022), which mark the anniversaries of major changes in Irish history and society that took place between 1912 and 1922. Organized by AIAS Fellow Isabelle Torrance in collaboration with Associate Prof. Sara McQuaid, Centre for Irish Studies (CISA), Aarhus University, 23-25 October 2018.

**AIAS Guest Lecture:** 'Auditory interactions between bats and moths: from neurons to communities' by Holger R. Goerlitz, Max Planck Institute for Ornithology Seewiesen, Germany. Invited by AIAS Fellow Peter Teglberg Madsen, 24 October 2018.

**AIAS Fellows' Seminar:** 'Rage Against the Mainstream: Why People Share Fake News on Social Media' by AIAS Fellow Michael Bang Petersen, 29 October 2018.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 1 November 2019.

**AIAS Fellows' Seminar:** 'Constructed wetlands: A fancy ecosystem for water pollution control' by AIAS Fellow Shubiao Wu, 5 November 2018.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 14 November 2018.

**AIAS at Centre for the Study of Antiquity and Christianity:** 'Between Poetry and Theology: the Metaphrasis Psalorum' by AIAS Fellow Andrew Faulkner. Invited and organized by the Centre for the Study of Antiquity and Christianity, Aarhus University, 14 November 2018.

**AIAS Fellows' Seminar:** 'The Unexpected. A Necessary Embrace of Contingent Futures' by AIAS Fellow Christina Kkona, 19 November 2018.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 20 November 2018.

**AIAS Fellows' Seminar:** 'Evolution of the Heart' by AIAS Fellow Tobias Wang, 26 November 2018.

**AIAS Former Fellow Conference:** *Worlding the Brain 2018: Tools of Collective Prediction: Music, Art, Literature, Religion*. Organized by AIAS Former Fellow Armin W. Geertz and Uffe Schjødt from the Study of Religion, Aarhus University, Denmark, 27-29 November 2018.

**AIAS Fellows' Seminar:** 'Protein aggregation in neurodegenerative diseases: Mechanisms of neuronal toxicity and opportunities for novel therapies' by AIAS Fellow Asad Jan, 3 December 2018.

**AIAS Funding Seminar:** 'Research Funding Seminar' with presentations on the Danish funding landscape, EU funding and funding strategy for AIAS Fellows given by the Aarhus University Research Support Office and organized by AIAS in collaboration with the AU Research Support Office, 6 December 2018.

**AIAS Guest Lecture:** 'The Middle East Refugee Crisis: A World-War-I Legacy' by Dr Kent Schull, Associate Professor of history, Binghamton University, USA. Invited by AIAS Fellow Darin Stephanov, 10 December 2018.

**AIAS Fellows' Seminar:** 'Transforming the Canon. Early Christian Poetry and the Graeco-Roman Literary Tradition' by AIAS Fellow Andrew Faulkner, 4 February 2019.

**AIAS Joint Research Presentations:** Extended one-day Fellows' Seminar with short 6-minute research presentations by all AIAS Fellows, 6 February 2019.

**AIAS Fellows' Seminar:** 'Plants under water: Surviving submergence and salinity' by AIAS Fellow Dennis Konnerup, 18 February 2019.

**AIAS Workshop:** *Exploitation as domination*. One-day book project workshop organized by AIAS Fellow Nicholas Vrousalis, 22 February 2019.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 26 February 2019.

**AIAS Fellow's Seminar:** 'The Making of Formal Insecurity. Similarities of welfare state transformation in Eastern Europe' by AIAS Fellow Borbála Kovács, 4 March 2019

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 12 March 2019.

**AIAS Fellow's Seminar:** 'Cannabinoids and depression. Towards a new age of antidepressant research with cannabidiol' by AIAS Fellow Sãmia Joca, 25 March 2019.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 26 March 2019.



**Conference:** *NetIAS Annual Directors' Business Meeting and Annual Meeting for EURIAS Fellows*. Three-day meeting and conference for members and fellows of the European Network for Institutes for Advanced Study (NetIAS) hosted by AIAS and co-organized with Nadia Al-Bagdadi, director of IAS CEU, Budapest and Olivier Bouin, director of the foundation Réseau français des instituts d'études avancées, Paris, 3-6 April 2019.

**AIAS Fellow's Seminar:** "Jinnealogies": Spirit Possession, Ecological Memory, and the Burden of the Past in Niger' by AIAS Fellow Adeline Masquelier, 8 April 2019.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 8 April 2019.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 23 April 2019.

**AIAS at Festival of Research/Forskningens Døgn:** Public engagement talk on 'The good, the bad and the truth about marijuana' by AIAS Fellow Sãmia Joca at "Stakladen" Aarhus University, 24 April 2019.

**AIAS Fellow's Seminar:** 'Exploitation: what it is and why it's morally wrong' by AIAS Fellow Nicholas Vrousalis, 29 April 2019.

**AIAS Former Fellow Conference:** *Online Disinformation: an Integrated View*. Two-day conference to initiate the 'Nordic Network on Disinformation'. Organized by AIAS Former Fellow Anja Bechmann, Media Studies, Faculty of Arts, Aarhus University, 6-7 May 2019.

**AIAS Fellow's Seminar:** 'Migration and the Making of the Roman Empire: Separating Fact from Fiction' by AIAS Fellow Franco De Angelis, 13 May 2019.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 21 May 2019.

**PhD workshop:** Pre-conference workshop for PhD students on 'Critical Algorithm Studies'. Organized by the Arts PhD School and AIAS, 27 May 2019.

**AIAS Conference:** *Music and Artificial Intelligence – Pasts and Futures, Opportunities and Risks*. One-day international conference with seven talks that probed AI's cultural implications through the enduring relationship between music and AI – evident in the influence of cybernetics on music, in Marvin Minsky's work at MIT, and in the burgeoning field of Music Information Retrieval. Organized by AIAS Fellow Georgina Born, 28 May 2019.

**AIAS Network Meeting:** Post-conference meeting on 'Music and Artificial Intelligence'. Organized by AIAS Fellow Georgina Born, 28 May 2019.

**AIAS Fellow's Seminar:** 'Music and Digital Anthropology: Social and Material Perspectives' by AIAS Fellow Georgina Born, 3 June 2019.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 4 June 2019.

**PhD workshop:** Pre-conference PhD workshop with six student presentations including discussion. Organized by AIAS Fellow Andrew Faulkner, 12 June 2019.



**AIAS Workshop:** *Cultural Identity and Transmission in Early Christian Literature.* Two-day international workshop that explored cultural identity and the transmission of ideas in the early Christian literature of Late Antiquity (3rd-7th c. AD), as well as its reception in Byzantium. Organized by AIAS Fellow Andrew Faulkner in collaboration with Associate Professors Anders-Christian Jacobsen and Jakob Engberg from the Dept. of Theology, Aarhus University, 12-14 June 2019.

**AIAS Shut Up and Write Sessions:** A collective writing forum where AIAS Fellows meet to write or read while enjoying the silence and good karma of colleagues working alone/together, 18 June 2019.

**AIAS Summer Gathering:** In three 20-minute talks AIAS Former Fellows Jessica L. Barker and Óscar José Martín García and current Fellow Renée M. van der Sluis discussed the role that academic research and academic researchers play in the wider public sphere, including e.g. influence on policy and democracy. The talks were followed by a panel discussion convened by Casper Andersen, The School of Culture and Society, Aarhus University. The academic part was followed by networking and social gathering for current and former AIAS Fellows, 21 June 2019.

**AIAS Symposium:** *Gendered Temporalities: Anthropological Perspectives.* Two-day international symposium with 18 speakers who have discussed the connections between time and gendered constructs, ideologies, and lived practice through an exploration of a range of temporal experiences, including (but not limited to) the life course; medical temporalities; everyday life; ritual time; labor; history, memory and pastness; rupture and continuity; crisis and chronicity; space, property, and domesticity. Organized by AIAS Fellow Adeline Masquelier in collaboration with Assistant Professor Victor Sacha Cova and Professor Lotte Meinert, Dept. of Anthropology, Aarhus University, 26-27 August 2019.



# HOSTED EVENTS



Find **a selection of the events** that AIAS has hosted in the academic year of 2018-19, and get inspiration on how you can **benefit from using the facilities of AIAS**. The building of **AIAS is always open** to events organized by Aarhus University academics and departments and external institutions. Get outside the academic silo and engage...

# HOSTED EVENTS

**Jubilee Day 2018:** For alumni of the Faculty of Health. Organized by the Faculty of Health, Aarhus University, 21 September 2018.

**Seminar:** Afternoon seminar for administrators in the central unit AU Student Administration and Services. Organized by AU Student Administration and Services, 27 September 2018.

**EUTYPES 2018:** Annual meeting for members of the EUTypes COST network. Organized by the Dept. of Computer Science, Faculty of Science and Technology, Aarhus University, 8-9 October 2018.

**The Jens Christian Skou Award Ceremony 2018:** Award ceremony with talks and announcement of the recipient of the 2018 Jens Christian Skou Award. Organized by the Faculty of Health, Aarhus University, 11 October 2018.

**Network Meeting:** Meeting for network members from the authorities of the City of Aarhus and representatives from the educational institutions in Aarhus. Organized by the International Centre, Aarhus University and Aarhus Borgerservice, 25 October 2018.

**Conference:** *CoLuAa XXVI 2018*. Annual meeting for structural biologists from Copenhagen, Lund and Aarhus. Organized by AIAS Former Fellow Bjørn Panyella Pedersen and Ditlev Egeskov Brodersen from the Dept. of Molecular Biology and Genetics, Aarhus University, 1-2 November 2018.

**Symposium:** *Symposium on Image-based techniques in species detection and identification*. Organized by AIAS Former Fellow Toke Thomas Høye, the Dept. of Bioscience, Faculty of Science and Technology, Aarhus University, 8 November 2018.

**PhD Defense:** Lars Astrup Leth. Organized by the Dept. of Chemistry, Faculty of Science and Technology, Aarhus University, 13 November 2018.

**PhD Defense:** Line Dahl Næsborg. Organized by the Dept. of Chemistry, Faculty of Science and Technology, Aarhus University, 13 November 2018.

**Seminar:** UIC Seminar on 'Taxation in Denmark'. Organized by the International Centre, Aarhus University, 14 November 2018.

**Seminar:** Biomedicine seminar with guest speaker Peter Carmeliet, VIB Belgium. Organized by the Dept. of Biomedicine, Faculty of Health, Aarhus University, 14 November 2018.

**Conference:** *More Women in Research: A Call for Action*. Organized by the AU Junior Researcher Association (JRA), Aarhus University, 16 November 2018.

**Lundbeckfond Lecture:** Organized by Folkeuniversitetet, 22 November 2018.

**Meeting:** Lundbeckfond information meeting. Organized by the Research Support Office, Aarhus University, 23 November 2018.

**Course:** Course on 'How to get published' for PhD students. Organized by the AU Research and External Relations, Aarhus University, 29 November 2018.

**Meeting:** Board meeting in the AU Junior Researcher Association, Aarhus University, 12 December 2019.

**Seminar:** Management strategy seminar. Organized by the AU Student Administration and Services, Aarhus University, 13 December 2019.

**Meeting:** Research meeting on Image-based techniques in species detection and identification. Organized by AIAS Former Fellow Toke Thomas Høye, the Dept. of Bioscience, Faculty of Science and Technology, Aarhus University, 13 December 2018.

**Meeting:** Meeting in The Young Academy. Organized by Nikolaj T. Zinner, Dept. of Physics and Astronomy, Aarhus University, 10 January 2019.

**Meeting:** On stroke awareness. Organized by the Research Unit for General Practice, Faculty of Health, Aarhus University, 10 January 2019.

**Meeting:** Annual DNRF Meeting for the Center for Proteins in Memory, PROMEMO, Aarhus University, 24 January 2019.

**Meeting:** In AUPA, Aarhus University PhD Association board meeting. Organized by AU Research and External relations, 5 February 2019.

**Workshop:** DANDRITE Student ENCOUNTERS 2019. Students encounter DANDRITE's research groups. Organized by DANDRITE, Aarhus University, 20 February 2019.

**Symposium:** *Renal Physiology Symposium*. Organized by the Dept. of Clinical Medicine, Faculty of Health, Aarhus University, 28 February 2019.

**PhD Defense:** Michael Christensen. Organized by the Dept. of Clinical Medicine, Faculty of Health, Aarhus University, 1 March 2019.

**Symposium:** *3rd AU-Novo Nordisk Symposium*. Organized by Novo Nordisk and the Faculty of Science and Technology, 15 March 2019.

**Course:** Using QGIS. Organized by GEUS and Aarhus University, 25 March 2019.



**Meeting:** Board meeting in the AU Junior Researcher Association, Aarhus University, 27 March 2019.

**Seminar:** UIC seminar on 'Renting Property in Denmark'. Organized by the University International Club and International Centre, Aarhus University, 10 April 2019.

**Kjell Johansen Lecture:** 'Lessons in Physiology from a Fish Living in the Most Extreme Aquatic Environment on Earth' by Chris M. Wood, University of British Columbia, Vancouver, Canada. Organized by AIAS Former Fellow Tobias Wang, Zoophysiology, Aarhus University, 11 April 2019.

**PhD Defense:** Cecilie Nørby Thisted on 'Work participation among employees with depression Clarifying the perspectives of employers and highly educated employees with depression.' Organized by the Dept. of Public Health, Aarhus University, 24 April 2019.

**Network meeting:** Meeting in the Anthropology network. Organized by the Research Unit for General Practice, Faculty of Health, Aarhus University, 30 April 2019.

**PhD Defense:** William Joyce. Organized by AIAS Former Fellow Tobias Wang, Zoophysiology, Aarhus University, 2 May 2019.

**Workshop:** On Zoophysiology. Organized by AIAS Former Fellow Tobias Wang, Zoophysiology, Aarhus University, 3 May 2019.

**Conference:** *Etc. Exchange Transformation Communication*. Organized by the Nordic Association of English Studies and English Studies at Aarhus University, 8-10 May 2019.

**Seminar:** Marie Curie Master Class talk. Organized by the International Centre, Aarhus University, 15 May 2019.

**Network meeting:** Meeting in the research network for drones and aesthetics. Organized by AIAS Former Fellow Lotte Philippsen, Art history, Faculty of Arts, Aarhus University, 22 May 2019.

**Workshop:** Career Paths for Junior Researchers: Should I Stay or Should I Go? Organized by AU Junior Researcher Association, 19 June 2019.

**Meeting:** For the members of the AU University Senior management, 25 June 2019.

**Meeting:** For the members of the HealthD360 Steering Committee. Organized by the Dept. of Public Health, Faculty of Health, 25 June 2019.

**Conference:** *SYNDI 2019. Systems Neuroscience and Decision Making* (SYNDI) organized by Duda Kvitsiani, DANDRITE, Aarhus University, Denmark and Balazs Hangya, Institute of Experimental Medicine, Budapest, Hungary, 7-8 August 2019.

**Meeting:** For the members of the Board of Directors of the Think tank DEA. Organized by the Rectorate, Aarhus University, 15 August 2019.

**Meeting:** Centre of Excellence annual meeting of the Centre for Quantum Geometry of Moduli spaces (QGM). Organized by QGM, Aarhus University, 28 August 2019.

**Meeting:** Open science meeting for researchers and industry. Organized by iNano, Aarhus University and SPOMAN, the Open Science Community, 29 August 2019.

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## ERC GRANTS TO ISABELLE TORRANCE AND PATRICK BILLER

This academic year, current AIAS-COFUND fellow **Isabelle Torrance** has received a prestigious ERC Consolidator grant to study classical influences on Irish culture with her project entitled 'Classical Influences and Irish Culture (CLIC)'. With this grant, Torrance will stay at Aarhus University after finishing her AIAS fellowship as her five-year ERC project will be hosted at the School of Culture and Communication, at the Centre for Irish Studies, from 1 October 2019. The ERC-grant enables Torrance to build her own research group in Aarhus and employ two postdoctoral researchers and three PhD students.

Yet another fellow has received an ERC grant, as Former AIAS-COFUND fellow **Patrick Biller**, now at the Department of Engineering at Aarhus University, has received an ERC Start-up grant for his project 'REBOOT- resource efficient biochemical production and waste treatment.' The aim of Biller's ERC project is to recover the valuable resources found in wet wastes such as sewage sludge and manure to reuse them rather than treat them as a waste for disposal. Ultimately, the project seeks to integrate different technological advances to build a system that reuses all the resources and creates zero waste.



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