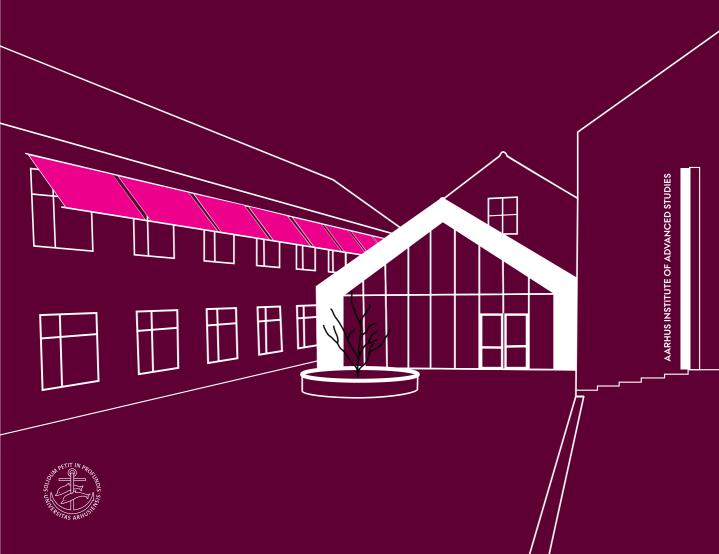




AARHUS INSTITUTE OF ADVANCED STUDIES

AIAS ANNUAL REPORT 2022/23





AIAS ANNUAL REPORT 2022-2023

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CRISIS AND CELEBRATION:

THE MANAGEMENT'S ACCOUNT 2022-2023

The academic year 2022 to 2023 has been a year with ups, downs and unexpected changes at AIAS. A year where AIAS has oscillated between crisis and celebration. In the summer of 2022, AIAS Director Søren Keiding was hit by cancer and passed away in March 2023, three months before AIAS's festive 10-Year Anniversary in June 2023. Consequently, Deputy Director Lotte Holm was appointed acting director for the academic year, in close collaboration with the chair of the AIAS Board of Directors Professor Jørgen Frøkiær, the board and the AIAS team.

Despite the difficult circumstances of losing a close colleague and an excellent researcher to cancer, AIAS has also had a productive and positive year with many achievements to celebrate. New types of fellowships have been launched, new funding attracted, and we can look back on 10 years as a successful IAS with great impact by the AIAS fellows and with the formation of lasting interdisciplinary connections.

REBUILDING OF UKRAINE CONFERENCE

'Institutes for Advanced Study' are and should be safe havens for researchers by offering academic freedom and research shelter regardless of nationality, ethnicity, religion, political conviction or gender. So, it is at AIAS.

From April 2022 until June 2023, AIAS has hosted 12 researchers from Ukraine through the AUFF-Ukraine fellowships for researchers fleeing the war in Ukraine supported by Aarhus University Research Foundation. In March 2023 to mark the one-year day of the invasion, the Ukrainian fellows organized with success a conference, Rebuilding of Ukraine: Peoples, Ideas, Technologies, and Resources, that looked ahead to the future perspectives for Ukraine.

IPERSPECTIVES INTERDISCIPLINARY E-MAGAZINE ON CRISIS

AIAS is a space for researchers from different disciplines to collaborate and exchange ideas, and so is the AIAS fellows-driven e-magazine iPerspectives a virtual space to bring together a multitude of disciplinary perspectives to shed light on a pressing topic with which the AIAS fellows are occupied with.

In this academic year, the fellows decided on the topic of CRISIS for the 2023 Anniversary issue of iPerspectives. A topic closely linked to the many crises marking the 2020s: climate crisis, a migration crisis, a corona crisis, a crisis between Ukraine and Russia and war in the European continent, an energy and security crisis, a financial crisis, and a crisis at AIAS with the loss of Director Søren Keiding. The 14 contributions in the magazine reflect an AIAS community that cares and acts on societal crises in their exploration of themes such as the climate crisis, the crisis between Ukraine and Russia, and the scientific data reproducibility crisis.

CYBORG WORKERS: LOOKING AHEAD TO 2023-2024

One of the capacities of AIAS is the engaged research community of interdisciplinary scholars who respond to the challenges around us. This is reflected in fellows' initiatives during the year.

The conference Earth Sensations: Affects, sensibilities and attachments in an era of climate change had environmental issues on the agenda, and the conference Cyborg Workers: The Past, Present and Future of Automated Labour addressed the concerns and challenges of automated labour such as artificial intelligence and how this will change our labour market. The latter points forward to the next academic year at AIAS in which artificial intelligence and digitalization is on the agenda for our new theme-based fellowships that will start in September 2023.

13 JUNE 2023: 10-YEAR ANNIVERSARY

In June AIAS celebrated 10 years with interdisciplinary and international research, dialogues, networks and solutions. The festive scene was set on 13 June with 10 academic speedtalks by 10 fellows, one from each academic year from 2013 to 2023, followed by a photo exhibition of research in the Arctic including a VR-tour, and a social programme with jazz and networking.

AIAS is looking forward to initiating another decade with impactful, interdisciplinary and relevant research and collaborations across disciplines, borders and methods.



AIAS 10-YEAR ANNIVERSARY





13 June 2023

AIAS celebrated its 10-year anniversary which marked a decade with inspiring, interdisciplinary and international collaboration and exchanges.

See the Anniversary Programme:

https://aias.au.dk/events/aias-10-year-anniversary

Find the Anniversary Issue of iPerspectives:

https://aias.au.dk/research/iperspectives-magazine



IN MEMORY OF AIAS DIRECTOR SØREN KEIDING

By: AIAS 6 March 2023

After a hard time struggling with cancer, director of AIAS Søren Keiding has passed away, leaving behind his wife, Lis Keiding, two adult children and a grandchild. He will be deeply missed.

It is with great grief and immense sadness that AIAS has received the news that AIAS Director, Professor Søren Keiding has passed away on 4 March 2023 at the age of 63, after struggling with the illness since the summer of 2022.

Søren Keiding came to AIAS in October 2019, from a position as vice dean of research at the Faculty of Science and Technology at Aarhus University, and before that, from 2003-2015, he was a professor of chemistry at Aarhus University. He obtained his PhD degree in physics in 1990 and became dr. scient. in 1998. As a chemical physicist, his research was within the area of ultrafast motion of molecules, in particular water, studied with lasers. For decades, Søren has held numerous positions of trust, most recently as a member of DFIR, the Danish Council for Research and Innovation Policy, appointed by the Ministry of Higher Education and Science in Denmark.

"It is with great sadness I received the news that Søren Keiding has passed away. Those of us who knew him either as a colleague, Vice Dean for Research or as Director of AIAS know that we and Aarhus University have lost a very special person. Søren was a multi talent: an excellent scientist and teacher, a gifted musician with a warm personality and a wonderful sense of humour, and he was a very capable director of AIAS. Søren was a well-known and popular person at Aarhus University, and he managed to reach out to most of its corners via the Associate fellowship programme at AIAS. Apart from his own research field in physical chemistry, he had a broad insight in many other fields in natural and technical sciences. He had a deep understanding of research policy and research funding and was always willing to generously share his knowledge. Søren will be truly missed," expressed Brian Bech Nielsen, rector of Aarhus University.

During his time as director of AIAS, Søren was of great inspiration to all and made a huge imprint on both the staff and the fellows that he worked with on a daily basis, but also through his commitment to develop the Aarhus Institute of Advanced Studies in new directions.

"As a strong director of AIAS, Søren Keiding contributed with very important new directions of AIAS with two 'tracks' by adding the new theme-based group fellowships to the existing individual fellowships. Søren had a very great sense of the directions in research policy and for the societal demands of current research, which he managed to bring to life at AIAS," said Professor Jørgen Frøkiær, chair of the Board of Directors at AIAS.

On top of his management obligations at AIAS and his commitments in research policy, Søren had a passion for communicating his research knowledge to a broad audience. Most recently his book in the series Tænkepauser: Vand [Reflections: Water] on the unique properties of water was published at Aarhus University Press, in November 2021. That book reflects his unique ability to communicate difficult research with a great sense of humour. But first and foremost, during his directorship at AIAS, he cared for the thriving and the talent development of the fellows and staff at AIAS:

"Søren took a very special interest in all fellows' well-being. It was important to him that both fellows' personal lives and the academic advancement was well balanced, and he did all he could to help those in need. Not least his personal commitment towards the development of the AUFF-Ukraine Research Fellowships for researchers fleeing the war in Ukraine bears witness of his compassion and action towards helping where he could. For all of us at AIAS it is a great loss not to have Søren with us anymore. We will miss his creative ideas and effort to encourage dialogue and collaboration between all researchers connected to AIAS and at Aarhus University. But most of all, we will miss his genue effort to make us all smile on a daily basis," said Lotte Holm, head of the secretariat and depty director at AIAS.

In honour of his memory.



Photos: Søren Rud Keiding at AIAS.

Credit: Lars Kruse.



FELLOVVS

ASSOCIATE FELLOVS

AUFF-UKRAINE RESEARCH FELLOVVS





ALEXANDRA-IULIA OTIMAN

AIAS COFUND Fellow

Assistant Professor, previously Institute of Mathematics of the Romanian Academy, Romania and University of Florence, Italy

Area of research: Mathematics

Project title: 'Bridging the gap between Kähler and non-Kähler geometry'

My AIAS project is purely theoretical and lies at the heart of complex differential geometry. More precisely, I study the geometry of compact complex manifolds carrying special Hermitian metrics of non-Kähler type, focusing on their topological, cohomological and analytical features. The goal of my project is to build a unifying frame of techniques for Kähler and non-Kähler geometry that resides in the characteristics of a special Hermitian metric. Such a programme would shed light on the geometric properties of complex manifolds and would have a great impact in classification theories.



BARBARA BERGER

AIAS COFUND Fellow

Postdoc, previously University of Birmingham, UK

Area of research: Cognitive Neuroscience

Project title: 'How do we remember: Replay mechanisms during working memory maintenance and the impact of degraded percepts'

Working memory (WM) – a cognitive system holding and manipulating information for a short period of time when no longer externally available – is essential in everyday life (i.e. holding a conversation) and is inextricably linked to attention and perception. Yet, very little is known about the neuronal mechanisms underlying the representation of individual items. At AIAS, I will focus on how WM representations are impacted when perceptual input has been impoverished and attention allocation has failed as a result of perceptual constraints; hoping to close a gap in our understanding of pathological WM decline.



BRIDGET VINCENT

AIAS COFUND Fellow

Assistant Professor, previously Australian National University

Area of research: Literature and ethics

Project title: 'The Architecture of Warning: Urban Ruins and the Ecological Imagination'

My project at AIAS examines urban ruins in contemporary writing, showing that literary depictions of ruins can form an important part of a text's ecological work. Its contribution is threefold. First, the project contributes to the interdisciplinary understanding of the current global preoccupation with modern ruins. Second, it deepens scholarship on key modern writers whose environmental texts include ruins. Third, in reading modern ruin depictions as a form of caution to the reader, the project contributes to research on the study of the text as a form of environmental warning.

AIAS ANNUAL REPORT 2022-2023 FELLOWS



CHRISTIAN DAMSGAARD

AIAS COFUND Fellow

Assistant Professor, previously University of British Colombia, Canada

Area of research: Comparative Animal Physiology

Project title: 'Sensory evolution from a bird's eye perspective – elucidating the physiological basis for superior eyesight'

Visual perception requires energy, which must be sustained by a constant supply of oxygen to the light-absorbing retina of the eye. Yet, the retina of sharp-sighted birds does not possess internal capillary beds to supply oxygen, as most other tissues do, so adequate oxygen delivery by simple diffusion seems fundamentally impossible. This AIAS project investigates mechanisms that distribute oxygen and energy within retinal cells. I perform these experiments on multiple species of birds and reptiles to unravel the physiological basis for the evolution of superior vision.



CHRISTOS TSIROGIANNIS

AIAS COFUND Fellow

Associate Professor, previously Antiquities Unit, University of Cambridge, UK

Area of research: Forensic Archaeology

Project title: 'Monitoring the Trade in Illicit Antiquities'

My research explores the ways in which international trafficking networks supply looted, smuggled and stolen antiquities to their various clients. Case-by-case, I am mapping the paths that are used and records the individuals, companies and institutions participating in this criminal trade. Developing in AIAS a new method for tracing 'problematic' antiquities, my aim is to help the authorities and the public to better understand the problem on an international scale in order to protect what has not yet been looted and to help the actors involved to become more ethical.



CORINA-GABRIELA CIOBOTARU

AIAS COFUND Fellow

Assistant Professor, previously Institut des Hautes Études Scientifiques, Paris, France

Area of research: Pure Mathematics, Geometric Group Theory

Project title: 'Trees and Central Limit Theorems'

Enabling predictive mathematical modelling, the Law of Large Numbers (LLN) and the Central Limit Theorem (CLT) from probability and statistics theory are key mathematical tools in many fields of physics, chemistry and biology. The usual LLN and CLT (known from centuries) are stated for random events that are quantified as real numbers. My AIAS project aims to explore and the Central Limit Theorem on new territories where the random events will take values in metric trees and groups acting on them. Those are important cases for testing new techniques and ideas, targeting further generalizations.



DAVID CIEPLEYAIAS COFUND Fellow

Associate Professor, previously Institute for Advanced Studies in Culture, The University of Virginia

Area of research: Political and Legal Theory

FELLOWS

Project title: 'Our Corporate Civilization in Crisis: Constitutional Democracy, the Corporation, and the Problem of Control'

Ours is a corporate civilization, where organizational property is primarily owned not by natural persons but "juridical persons"—states and especially corporations. Shifting ownership to abstract legal entities has dramatic consequences for organizational scale, duration, governance, lines of responsibility and liability, economic classes, and societal dynamics. But, these are missed or misunderstood by our reigning liberal individualist frameworks. My project traces this history and documents these consequences. It further explores the tension between constitutional democracy and the Anglo-American business corporation, and concludes with reform proposals to make them more compatible.



FULVIO MARIO REGGIORI

AIAS COFUND Fellow

Professor, previously University of Groningen, The Netherlands

Area of Research: Health and Medical Sciences

Project title: 'Identification of pan-anti-betacoronaviral compounds using a simple and rapid high-throughput screening approach'

The research of my laboratory aims at understanding the mechanism but also some of the physiological functions of a cellular process called autophagy, which allows each eukaryotic cell to recycle its own components. One of my research lines has been the study of the interaction between autophagy and viruses, and the first virus family that we became interested in were coronaviruses. Over the years, we have developed the knowledge and the tools to now embark on a project aimed at finding a pharmacological solution against future coronavirus outbreaks.



GORDAN MCMULLAN

AIAS COFUND Fellow

Professor, King's College London, United Kingdom

Area of research: Literary and cultural studies

Project title: 'Cormorant: A Natural and Cultural History of Prejudice'

What can we learn from a bird about prejudice? Prejudice against animals and against humans intersect discursively through the cultural resonances of terms used in natural science: 'native', 'invasive', 'migration'. My project addresses a specific creature, one that has been both the object and the vehicle of prejudice: the cormorant. The natural and cultural history of this bird serves as a case study in the history of two connected phenomena: the persistent interweaving of cultural and scientific forms of knowledge about the natural world, and what happens when forms of prejudice bleed across the human-animal divide.

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HALE GÜNEY

AIAS COFUND Fellow

Postdoc, previously Institute of History, Dept. of Ancient History, University of Cologne, Germany

Area of research: Ancient History, Ancient Economy, Ancient Numismatics, Greek Epigraphy **Project title:** 'The Economy and Connectivity of Central Anatolia during the Roman Period'

The issue of the economic behavior of ancient cities has been a controversial subject within the field of ancient economics. In the past three decades, only a small number of ancient cities have been studied to question the old and new approaches and determine the dynamics of the urban economy in the Roman World. Therefore, this project intends to give an account of the old and new approaches to the ancient economy to delineate an appropriate perspective on the cases of the Galatian cities in Central Anatolia during the Roman period.



HELEN VAN NOORDENAIAS COFUND Fellow
Associate Professor, University of Cambridge, UK

Area of research: Ancient Literature and Theology **Project title:** 'Reframing the Sibylline Oracles'

Apocalyptic discourse in antiquity can be illuminated through study of the Sibylline Oracles. These versions of the history and fate of humankind draw on both Biblical and Greek traditions; their Greek verses were composed and edited by Jews and then Christians coming under Roman rule, but were attributed to a legendary prophetess. Reframing this corpus in contexts, such as adaptations of myths and literary genres, that span several centuries and religious identities, I bring out their multifaceted stylistic texture, various bids for authority, and hybrid cultural identity.



IWONA JANICKA
AIAS COFUND Fellow
Associate Researcher, Centre Marc Bloch, Berlin, Germany

Area of research: Philosophy and Literature

Project title: 'How to Build a Common World? Contemporary Continental Philosophy and the Question of World Formation'

The project's point of departure is an assumption that philosophy has difficulty conceptualizing possible alternatives to the status quo. It is also challenged by envisioning alternative futures. In the context of recent ecological and technological developments, this research examines how selected 21st thinkers move from social diagnostics and critique towards gestures of affirmation and construction in philosophy. Furthermore, it investigates the implications of this shift for concrete political and social practices. At the heart of this project lies the question of habitation, cohabitation and habitability in the world today.



IZA ROMANOWSKA

AIAS COFUND Fellow

Postdoc, previously Barcelona Supercomputing Center, Spain

Area of research: Agent-based modelling, Archaeology and Complexity Science **Project title:** 'Reconstructing ancient demographics through archaeological-historical data integration and computer simulation: the cases of the Dutch Roman Limes and Roman Palmyra'

In this project, I leverage archaeological datasets and apply cutting-edge computational techniques, to enhance our understanding of ancient demographics, thus tracking the ups and downs of border communities across centuries. By combining data science, spatial modelling of rural and urban settings as well as High-Performance Computing enabled agent-based simulation, I develop an evidence-based narrative for the population dynamics of two important border regions of the Roman Empire and gain insight into the sources of resilience and failure of human groups in the past and now.



JAAP TIMMER
AIAS COFUND Fellow
Associate Professor, Macquarie University, Sydney

Area of research: Cultural change, time, and sovereignty **Project title:** 'Converting Time: A study of how histories emerge as people's futures change and make demands on the past'

Our current world is increasingly characterized by uncertain futures, but how do we evaluate and revise our assumptions about the past as markers of identity? In my fellowship, I will contribute to our understanding of how people make demands on the past as their future expectations change. A study of a religious movement in the Solomon Islands will ensure that this theoretical advancement is grounded in ethnographic detail that has analytical clarity. I will complete a book manuscript, write an article on the theory, and organize a conference.



JEFFREY KERBY
AIAS COFUND Fellow
Postdoc, previously Environmental Studies, Dartmouth College, USA

Area of research: Ecology & Geography

Project title: 'The many scales of Arctic ecological dynamics: confronting contradictions and gaps with new tech'

The Arctic is warming at three times the global average, yet our understanding of the rate, mechanism, and causes of widespread ecological changes in northern tundra landscapes remains limited. At AlAS, I explore how scale, and its pervasive influence on pattern, influences how we perceive and understand plant and animal life history expression (i.e. when to grow, reproduce, recover) in response to disturbances. Using computational approaches and satellite/drone/time-lapse camera imagery, my work in the Arctic and beyond explores classic ecological questions and emerging approaches to scientific communication.

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JIHAN ZAKARRIYA

AIAS COFUND Fellow

Assistant Professor, previously Beni-Suef University, Egypt

Area of Research: Literature, ecocriticism, gender studies

Project Title: 'Gender and environmental violence in Arabic literature and culture: an ecocritical study'

My project provides an interdisciplinary ecocritical perspective on different forms of human and environmental violence and insecurities. I pursue this objective through a selection of contemporary and modern Arabic novels that reveal and connect different dimensions of real aspects of gendered, ecological and political-religious violence. My project argues that the destruction of the environment in Arabic literature parallels and intersects with the violation of women's bodies that both have marked recent real religious political conflicts in Lebanon, Iraq, Algeria and Egypt.



KATARZYNA JAZDZEWSKA
AIAS COFUND Fellow
Associate Professor, Cardinal Stefan Wyszynski University, Warsaw, Poland

Area of Research: Ancient Greek and Roman Literature

Project Title: 'An Author to his Reader. Dedicatory Prose Prefaces in Ancient Literature'

The project is a diachronic examination of dedicatory prose prefaces to ancient Greek and Latin texts. Such prefaces allowed an author to directly address a specific, named dedicatee and to implicate him as a participant in a communicative act; as such, they represented a form of the social practices of gift exchange, networking, and patronage. During the project, I will collect evidence on the development of dedicatory prefaces over time, create a typology and comparative overview of dedicatory conventions, as well as interpret their literary and rhetorical functions.



KEI HIRUTA
AIAS COFUND Fellow
Assistant Professor, previously Eurias Fellow, Paris Institute for Advanced Study, France

Area of research: Political Theory

Project title: 'Responses to Democratic Crisis'

What does it mean for democracy to fail? How can trust in democratic government be restored and malfunctioning democratic institutions be repaired? And what should one do if a democratic system breaks down and one finds oneself in a non-democratic society? My research considers this set of questions by re-examining the works of mid-20th-century thinkers, including Hannah Arendt, Isaiah Berlin, Albert Camus, Judith Shklar and Masao Maruyama. I hope to show that their ideas remain pertinent today, when democracies across the world are confronted with a new series of crises.





LAU MØLLER ANDERSEN AIAS COFUND Fellow Assistant Professor, previously Karolinska Institutet, Sweden

Area of research: Cognitive Neuroscience

Project title: 'The cerebellum as an internal clock - altered cerebellar activity in Parkinson's disease giving rise to abnormal temporal discrimination?'

In my project, I will examine the hypothesis that the cerebellum functions as an internal clock and how the dysfunction of this clock may give rise to abnormal temporal discrimination in Parkinson's disease patients. The cerebellum is an understudied part of the human brain. Recent studies, however, have shown that the cerebellum is involved in many cognitive domains. I will use the technology of magnetoencephalography to non-invasively record neural activity of the cerebellum as it unfolds, shedding new light on the cerebellum's role in Parkinson's disease.



LAURA NISSIN AIAS COFUND Fellow Assistant Professor, University of Helsinki, Finland

Area of research: Ancient history, Classical Archaeology, Classical philology Project title: 'Making sense(s) of Roman neighbourhoods'

This project investigates the experiences of coexistence in urban quarters of ancient Roman towns by finding out how the inhabitants sensed their immediate neighborhoods. I use a multisensory approach, focusing on sensory nuisances i.e. the irritating smells and sounds, unwanted touches, the role of darkness in the use of space, and the disparity of diets. The sensations, often considered as solely physiological phenomena, are in fact deeply influenced by culture. One key element of this study is hence to find out what were the Roman cultural concepts associated with senses.



LAURE GUIRGUIS AIAS COFUND Fellow Associate Professor, Institute for Research on the Arab and Muslim World, Aix-Marseilles, France

Area of research: Social History, Cultural History, Transnational History Project title: 'The New Left in the Arab East: Entangled Histories of Revolutionary Hopes and Violence (1956-1979)'

With this research on the New Left in the Arab world, I focus on translocal militant interactions to challenge false universalisms and entrenched dichotomies between the East and the West, the North and the South, Orient and Occident, or center and periphery. This research also participates in recent efforts to put into question the verdict of the defeat of the Left by shedding new light on the dynamics of rupture and continuity in militant and intellectual paths and, thereby, on the resilience of radical and democratic traditions in the Arab world.

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LISA M. WU
AIAS COFUND Fellow
Associate Professor, previously Northwestern University Feinberg School of Medicine, USA

Area of research: Biobehavioral medicine, psychosocial oncology, neuropsychology **Project title:** 'The Role of Light and Circadian Rhythms in Cancer- and Cancer Treatment-Related Symptoms: A Prospective Controlled Study of Breast Cancer Patients during Treatment'

Circadian rhythms are the approximate 24-hour biological and behavioral rhythms important for our bodily functions. Cancer patients often experience circadian disruption, significant side-effects and symptoms due to cancer and its treatment. These symptoms may be driven by circadian disruption. Light exposure is the strongest entrainer of circadian rhythms, and could also be important to our understanding of cancer symptoms. This project is a transdisciplinary collaboration seeking to determine whether circadian rhythms underlie cancer symptoms, and whether light exposure plays a role.



LUSEADRA MCKERRACHER

AIAS COFUND Fellow

Postdoc, previously McMaster University, Hamilton, Canada

Area of research: Nutritional Anthropology, Reproductive Health, Developmental Origins of Health and Disease

Project title: 'Food Insecurity during Pregnancy in Copenhagen and Aarhus: Implications of Neighborhood Vulnerability, Social Policy, and the "Ghetto Plan" for Maternal-Child Health in Urban Denmark'

Being food insecure, not having enough nutritious, culturally appropriate food or worrying about running out of food, while pregnant is associated with worse health outcomes for birthing parents and their babies. Can a strong social safety net protect pregnant people from food insecurity? My SPOONS project investigates whether the Danish welfare state buffers Denmark's most vulnerable neighbor-hoods from food insecurity. To the extent that Denmark's welfare state falls short, we also explore ways to support pregnancy food security to build a healthier and more equitable next generation.



MAGDALENA MALECKA
AIAS COFUND Fellow
Assistant Professor, previously University of Helsinki & IAS Princeton

Area of research: Philosophy

Project title: 'From the cyborg origins of modern economics to its automated future. Towards a new philosophy of economics'

My recent research focuses on the ways in which computers have transformed modern economics and on philosophical implications of this transformation. The project builds on the historians' work on the Cold War science, which focuses on the influence of the cyborg sciences (computer science, research on artificial intelligence, operations research, cognitive psychology and cybernetics) on the development of modern economics. I argue that if these scholars are right about the origins of modern economics, then the broadly accepted view of economics as a science of human behavior is challenged and should be revised.



MARKUS RINSCHEN

AIAS COFUND Fellow

Associate Professor, Department of Biomedicine, Aarhus University and Department of Internal Medicine, University Hospital of Cologne, Germany

Area of research: Health and Medical Sciences **Project title:** 'Metabolic kidney protection'

My project aims at protecting kidneys from disease. Every day, the human kidney filters 180 liters of fluids, and removes waste products in the body through the urine. Failure to do so results in kidney disease. In this project, we aim to find new mechanisms of how to protect the kidney through modulating metabolism. The overarching goal is to pinpoint precise dietary interventions for individual patients with kidney disease.



MIE ANDERSEN

AIAS COFUND Fellow

Associate Professor, previously Technische Universität München, Germany

Area of research: Astrophysics, chemistry, computational catalysis

Project title: 'Descriptor-based modelling of the reactivity of interstellar dust grains'

The space between the stars in the Universe is not empty, but home to a variety of different rather complex materials and molecules, including sugars and amino acids. In close collaboration with partners doing astronomical observations or laboratory experiments, the aim of my project is to apply quantum mechanical calculations and recently developed machine learning methods to study whether complex molecules could be formed on silicate- or carbon-based interstellar dust grains. This is of fundamental interest since it could lead to the conditions necessary for the development of life.



NATALIA PRIETO VIDAL

AIAS COFUND Fellow

Postdoc, previously University of Guelph, Canada

Area of research: Food bioactive compounds, food processing, lipid and carbohydrate chemistry **Project title:** 'ALGOOD: Understanding the chemo-mechanical stabilization of Sargassum algae bioactive compounds in current and forthcoming food matrices'

Sargassum muticum is an invasive brown macroalga threatening ocean ecosystems equilibrium. Interestingly, brown seaweeds are a natural source of biologically active metabolites. Therefore, this macroalgae can be strategically valorized and used as a source for functional ingredients to develop foods with positive health outcomes. This project intends to develop foundational understanding of the effect of thermo-mechanical processing to improve the retention and bioaccessibility of S. muticum bioactives in complex food model systems. The goal is to provide critical knowledge tools for the valorization of S. muticum to design and produce healthy food with a positive ecological and health impact.

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NIELS CHR. HANSEN
AIAS COFUND Fellow
Assistant Professor, previously MARCS Institute, Western Sydney University, Australia

Area of research: Psychology, Empirical Musicology, Cognitive Neuroscience **Project title:** 'Why humans make music: uncovering missing links in the behavioural and neurohormonal underpinnings of musical evolution'

Despite its cross-cultural omnipresence with evolutionary origins far beyond 40,000 years of archaeological evidence, it remains a mystery why humans invest vast resources on creating and listening to music. I conduct corpus studies, brain scans, and behavioural experiments with oxytocin nasal sprays and advanced computer models to investigate how music induces social cohesion, attracts mates, and helps us cope emotionally in crisis times such as the COVID-19 pandemic. This contributes crucial evidence for music as a complex, socially embedded, biologically underpinned, and cross-culturally universal behaviour, distinguishing humans from other species.



PAUL CRISTESEN

AIAS COFUND Fellow

Professor, Dartmouth College, USA

Area of research: Ancient Greek history **Project title:** 'Leisure as Luxury in Ancient Sparta'

Ancient Spartans have long been defined by their reputation for having lived a life of austere self-discipline in a city that resembled an army camp. I will argue that Sparta was a community founded in and fanatically dedicated to a particular form of luxury: leisure. Spartan citizens (Spartiates), both male and female, young and old, were forbidden to engage in any kind of economically productive activity. This new understanding of ancient Sparta has wider ramifications because it sheds new light on the history of citizenship and leadership in ancient Greek communities.



PETER EBERT ANDERSEN
AIAS COFUND Fellow

Assistant Professor, previously Institute of Molecular Biotechnology (IMBA), Austria

Area of research: Molecular innovation in genetic conflicts

Project title: 'Innovation of genome regulation through arms race evolution in animals'

All life forms exist in constant conflict. Not just externally with other life forms trying to eat or out-compete it, but also within their DNA where genetic parasites populate their genomes. To protect their DNA, all organisms continuously evolve improved molecular defenses to suppress parasite proliferation. My project at AlAS aims to investigate how the innovation of the molecular arms race between host organisms and genetic parasites contribute to the general regulation of host cell biology – the spoils of war in genetics.



PETER FAZEKAS

AIAS COFUND Fellow

Postdoc, previously Centre for Philosophical Psychology, University of Antwerpen, Belgium

Area of research: Philosophy, Psychology and Cognitive Neuroscience **Project title:** 'Self-generated mental life: Developing an overarching philosophical account and a novel neuro-cognitive research paradigm'

Thoughts and images spontaneously popping into our mind are central features of self-generated mental phenomena like mind-wandering, dreaming and hallucinations. My project proposes a new model of these spontaneous thoughts and develops a novel experimental paradigm exploring whether hypnotic dreams (induced by instructions to 'have a dream' in a hypnotic state) can serve as hypnotic analogues of mind-wandering and dreaming. An affirmative answer could revolutionize how features of mind-wandering and dreaming — which are notoriously hard to study due to their spontaneous nature — could be examined in a well-controlled manner.



PHILIPP REICK

AIAS COFUND Fellow
Assistant Professor, previously Centre Marc Bloch, Berlin, Germany

Area of research: History

Project title: 'Making it home: A transnational history of building cooperatives and urban housing in interwar Europe, 1919–1926'

In the early 1920s, organized construction workers across Europe launched a new and powerful movement of producer co-operation. These Building Guilds and Bauhütten aimed to democratize labor relations by giving workers a say in how their everyday work was organized, how revenues would be spent, and how training and research could benefit employees and the public alike. Largely ignored by historians, this was a crucial experiment in industrial democracy. By comparing the movement in several European countries, the research project closes a striking research gap in social and labor history.



RUBEN PAUWELS

AIAS COFUND Fellow

Associate Professor, Department of Mechanical Engineering, Catholic University of Leuven, Belgium

Area of research: Medical Imaging

Project title: "DEEP-CBCT" - Next-Generation Dental Cone-beam Computed Tomography: Artefact Reduction and Bone Quality Assessment through Deep Learning'

The use of artificial intelligence, particularly deep learning (DL), in medical imaging is evolving at an incredibly rapid rate. My main project at AIAS focuses on the use of DL for image quality enhancement in cone-beam computed tomography (CBCT). In particular, I am working on the reduction of different types of artefacts, edge-preserving noise reduction, and the concept of 'super-resolution'. Different approaches to apply these techniques either independently or in combination are considered. The outcome is expected to enhance the clinical use of CBCT considerably.

AIAS ANNUAL REPORT 2022-2023 FELLOWS



SHIRU LIMAIAS COFUND Fellow
Postdoc, previously University of Göttingen, Germany

Area of research: Intellectual history

Project title: 'The Art and Artifice of Civil Society in Enlightenment Thought'

What's so civil about civil society? Enlightenment philosophers agreed that civility was most easily achieved when efforts to that end capitalised on mankind's natural traits. Yet these efforts are at heart artifices—apparatuses designed to prop up civil society and smoothen political, economic, cultural, interpersonal interaction. My project explores the myriad social and political artifices that eighteenth-century thinkers thought might keep society civil, whilst speaking to contemporary attempts to rethink the relationship between truth and artificiality in the modern political world.



STEFAN BARGHEER
AIAS COFUND Fellow
Assistant Professor, previously University of California (UCLA), USA

Area of research: Historical Sociology

Project title: 'Culturalism: The Remaking of Race in the American Century'

I look at the production of scientific knowledge on the relation between race and culture. During the Cold War the concept of culture took over many of the core characteristics previously assigned to race. Scholars stressed the homogeneity of cultures, their boundedness in space, and stability over time, three characteristics previously associated with an essentialist concept of race. While European countries used such an essentialist notion of race to classify people during the era of Empire, the United States as the dominant nation in the post-war world promoted essentialist notions of culture to do the very same.



SYLVIE TESSON

AIAS COFUND Fellow
Assistant Professor, previously University of Lund, Sweden

Area of research: Microbial ecology, Aero-microbiology

Project title: 'Dispersal and ice nucleation activity in airborne microalgae – their impact on atmospheric processes'

My research aims at unveiling the dispersal capacities of microalgae over geographic scales and their interaction with the environment. These photosynthetic organisms can cause harmful events (e.g., water contaminations, dermatologic and respiratory issues) and contribute to large scale processes. At AIAS, I am investigating how microalgae are emitted into the atmosphere, the impact of atmospheric conditions on their survival, and their ice nucleation activity at warm subzero temperatures. Results will bring novel insights in organismal ecology, in alien species propagation, and in the role of biogenic microorganisms on atmospheric processes.



WARD KEELER
AIAS COFUND Fellow
Professor, University of Texas at Austin, USA

Area of research: The performing arts and contemporary social relations in Southeast Asia **Project title:** 'When Hierarchy Ceases to Enchant'

In my AIAS project I am working on a book entitled When Hierarchy Ceases to Enchant that analyzes developments in the performing arts in three Southeast Asian societies where I have done fieldwork, namely, Java and Bali (in Indonesia), and Burma (Myanmar). My project brings together two realms of intellectual inquiry—the performing arts and contemporary politics—not to look for political content in the arts but rather to demonstrate how the arts give form to unstated but highly consequential assumptions about hierarchy.



YANXIA ZHANG

AIAS COFUND Fellow

Assistant Professor, School of Environment, Nanjing Normal University, China

Area of research: Environmental exposure and Health risks **Project title:** 'Exploring phthalate contamination of globally traded vegetables produced in plastic Greenhouses'

My AIAS project mainly focuses on phthalate contamination and the health risks of food trade between the EU and China. The use of plastic films in agricultural systems outside Europe has increased phthalate contamination in food. Food is not subject to REACH regulations, thereby posing a risk of adverse health effects from global food. Thus, environmental input-output models, exposure scenario modelling, biomonitoring, and phthalate dose-response curves of diabetes are used to quantify phthalate health impacts associated with the food trade, providing science-based support for alternative policy measures.



ZAKARIAS SJÖSTRÖM DYREFELT

AIAS COFUND Fellow

Assistant Professor, previously International Centre for Theoretical Physics Trieste, Italy

Area of research: Mathematics

Project title: 'Stable and unstable mathematical shapes'

I am working to make fundamental contributions to the mathematical understanding of complex geometric shapes. In doing so I work to develop the theory of canonical metrics introduced by Calabi in the 1950's, with a particular focus on improving understanding of the role that entropy, i.e. measures of order and disorder, play in this branch of geometry. The expected advancements are purely theoretical, and relate to questions pertinent to a conjecture of Yau, Tian and Donaldson in Kähler geometry, as well as suitable analogues for other geometric partial differential equations.

AIAS VISITING FELLOWS

Associate Professor **Anna Collar** Area of research: Archaeology University of Southhampton, UK

Associate Professor **André Costopoulos** Area of research: Anthropology University of Alberta, Canada

Professor **Eleonora Redaelli**Area of research: American cultural policy
University of Oregon, US

AIAS ASSOCIATE FELLOWS

Associate Professor **Alan O'Leary**Department of Journalism and Media Studies
Aarhus University

Associate Professor **Ali Amidi**Department of Psychology and Behavioral Sciences
Aarhus University

Assistant Professor **Alonso Rosas-Hernández** Department of Chemistry Aarhus University

Professor **Anders-Christian Jacobsen**School of Culture and Society, Systematic Theology
Aarhus University

Professor **Anja-Verena Mudring** Department of Chemistry Aarhus University Associate Professor **Annette Bohn**Department of Psychology and Behavioral Sciences,
CON AMORE, Aarhus University

Associate Professor **Brad Wray**Department of Mathematics, Science Studie,
Aarhus University

Assistant Professor **Cathrin Bengesser** School of Communication and Culture, Media Studies Aarhus University

Associate Professor **Christoph Mathys**School of Culture and Society, Interacting Minds Center
Aarhus University

Associate Professor **Cindrilla Chumduri**Department of Biological and Chemical Engineering
Aarhus University

Professor Daniel Erik Otzen

iNANO and Department of Molecular Biology and Genetics Aarhus University

Professor Daniele Nosenzo

Department of Economics and Business Economics **Aarhus University**

Professor Deirdre Cronin Fenton

Department of Clinical Medicine

Aarhus University

Associate Professor Donna Briggs Bødtkjer

Department of Biomedicine

Aarhus University

Professor Dorte Krause-Jensen

Department of Bioscience, Marine Ecology and

Artic Research Centre **Aarhus University**

Associate Professor Ebbe Sloth Andersen

iNano and Department of Molecular Biology and Genetics **Aarhus University**

Assistant Professor Edward Payne

School of Communication and Culture, Art History **Aarhus University**

Associate Professor Elisa Uusimäki

School of Culture and Society, Biblical Studies

Aarhus University

Assistant Professor Elizabeth le Roux

Department of Biology, Ecoinformatics and Biodiversity

Aarhus University

Assistant Professor Ermelinda Porpiglia

Department of Biomedicine

Aarhus University

Assistant Professor Felicity Davis

School of Pharmacy, Department of Biomedicine University of Queensland, Australia and Department of

Biomedicine, Aarhus University

Professor MSO Felix Riede

Department of Archaeology and Heritage Studies, Aarhus University & Oslo School of Environmental Humanities, University of Oslo, Norway

Associate Professor Gauri Sanjeev Pathak

School of Culture and Society, India and South Asia Studies **Aarhus University**

Assistant Professor Gilles Vanwalleghem

Department of Molecular Biology and Genetics

Aarhus University

Professor Gregers Wegener

Department of Clinical Medicine, Translational Neuropsychiatry Unit

Aarhus University

Associate Professor Hooman Farkhani

Department of Electrical and Computer Engineering

Aarhus University

Assistant Professor Ilke Uysal Ünalan

Department of Food Science

Aarhus University

Associate Professor Jesper Sørensen

Department of the Study of Religion

Aarhus University

Senior Researcher Joachim Audet

Department of Ecoscience

Aarhus University

Assistant Professor Jörg Krieger

Department of Public Health, Research Unit for

Sport and Body Culture

Aarhus University

Professor Lene Niemann Nejsum

Department of Clinical Medicine

Aarhus University

Associate Professor Lili Zhang

Department of Mechanical and Production Engineering

Aarhus University

Associate Professor Lone Koefoed Hansen

Department of Digital Design and Information Studies Aarhus University

Associate Professor Lukas Esterle

Department of Electrical and Computer Engineering Aarhus University

Assistant Professor Maarten Goesten

Department of Chemistry Aarhus University

Assistant Professor Mads Fristrup Schou

Department of Biology, Genetics, Ecology and Evolution Aarhus University

Assistant Professor Marcia Allison

School of Communication and Culture, Rhetoric Aarhus University

Professor Marco Hubert

Department of Management

Aarhus University

Assistant Professor Marta Irla

Department of Biological and Chemical Engineering, Industrial Biotechnology, Aarhus University

Professor Ole Windahl Pedersen

Department of Law Aarhus University

Assistant Professor Qian Janice Wang

Department of Food Science

Aarhus University

Associate Professor Rebekah Brita Baglini

School of Communication and Culture, Linguistics

Aarhus University

Associate Professor Rodrigo Grassi-Oliveira

Department of Clinical Medicine, Translational Neuropsychiatry Unit, Aarhus University

Assistant Professor Ross Deans Kristensen-McLachlan

School of Communication and Culture, Cognitive Science Aarhus University

Professor Rubens Spin-Neto

Department of Dentistry and Oral Health Aarhus University

Assistant Professor Shuai Wei

Department of Chemistry

Aarhus University

Associate Professor Shweta Agarwala

Department of Electrical and Computer Engineering, Electronics and Photonics, Aarhus University

Associate Professor Søren Munch Kristiansen

Department of Geoscience

Aarhus University

Assistant Professor Tobias Skiveren

School of Communication and Culture, Scandinavian Studies Aarhus University and University of Oslo, Norway

Associate Professor Wolf Eiserhardt

Department of Biology, Ecoinformatics and Biodiversity Aarhus University

About the AIAS Associate Programme: aias.au.dk/opportunities-at-aias/aias-associates

AUFF-UKRAINE RESEARCH FELLOWS

2022-2023



THE AUFF-UKRAINE RESEARCH FELLOWSHIP PROGRAMME

Immediately after the Russian invasion of Ukraine, Aarhus University and Aarhus University Research Foundation (AUFF) made a generous donation of DKK 10 million to AIAS to launch a fellowship programme for researchers affected by the war in Ukraine. On 8 March 2022, the call for the AUFF-Ukraine Research fellowships at AIAS, Aarhus University was opened to support researchers from any scientific discipline affected by the war in Ukraine and unable to continue their research. The fellowship programme has enabled 12 researchers from a Ukrainian research institution to continue their research and collaborate with other researchers at Aarhus University.

Alina Korobeinyk

Senior Researcher, Chuiko Institute of Surface Chemistry, National Academy of Sciences, Kyiv, Ukraine

Anastasiia Bohush

Research Scientist, Institute of Molecular Biology and Genetics, National Academy of Sciences, Kyiv, Ukraine

Anastasiia Sydorenka

Associate Professor at Bogomolets National Medical University and Medical psychologist at Ukrainian Children's Cardiac Center, Kyiv, Ukraine

Anastasiia Zymaroieva

Head of the Ecology Department in Polissia National University, and Senior researcher at The Chernobyl Radiation and Ecological Biosphere Reserve, Ukraine

Boris Negrutskii

Professor, Department of Structural and Functional Proteomics, Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv, Ukraine

Elmira Muratova

Associate Professor, Crimean Federal University/ Taurida National University Simferopol, Ukraine

Lyudmyla Kolisnyk

Senior Lecturer & Researcher, Department of Psychology, Political Sciences and Sociocultural Technologies, Sumy State University, Ukraine

Mariana Kuznietsova

Scientific consultant & Researcher, LLC Chemlaborreactiv Kyiv, Ukraine

Nadiia Pavlyk

Professor, Department of Social Technologies, Zhytomyr Ivan Franko State University, Zhytomyr, Ukraine

Oleg Yarosh

Associate Professor, Head of the History of Oriental Philosophy Research Sector, Institute of Philosophy, National Academy of Sciences of Ukraine, Kyiv, Ukraine

Sophia Opatska

Associate Professor, Vice Rector for Strategic Development, Ukrainian Catholic UniversityLviv, Ukraine

Yevgeniya Lekomtseva

Medical Specialist and Scientific Researcher, State Institute of Neurology, Psychiatry and Narcology, National Academy of Medical Sciences of Ukraine, Kyiv, Ukraine







FELLOVS' PUBLICATIONS AND ACTIVITIES



In this section follows a list of the books, book chapters and journal articles **published**, external **talks** given, the **awards or grants** received and the engagement **in the media** of the AIAS Fellows in the academic year of 2022-2023.

FELLOWS' PUBLICATIONS AND ACTIVITIES

PUBLICATIONS - BOOKS, BOOK CHAPTERS

Oleg Yarosh is author of the book chapter 'The Plurality of Islamic Officialdom and Public Islam in Ukraine' in: *Muslims of Post-Communist Eurasia* by Yemelianova et al. (eds.). Routledge, 2022.

Katarzyna Jażdżewska is author of the book chapter 'Animal Exemplarity in Imperial Greek Prose' in: *Poikile Physis: Biological Literature in Greek during the Roman Empire: Genres, Scopes, and Problems* by Diego De Brasi and Francesco Fronterotta (Eds.). De Gruyter, 2022.

Bogdan C. lacob is author of the book chapter 'Balkan Antiquity as Decolonial Eurocentrism during the Cold War' in: *Digging Politics: The Ancient Past and Political Present in East-Central Europe* by James Koranyi et al. De Gruyter, 2022.

Niels Chr. Hansen is author of the book chapter 'Music for hedonia and eudaimonia during pandemic social isolation' in: *Arts and mindfulness education for human flourishing* by T. Chemi et al. (eds). Routledge, 2022.

Niels Chr. Hansen is author of the book chapter 'Afterword - Coping with Crisis through Coronamusic' in: *Sounds of the Pandemic* by Maurizio Agamennone et al. (eds). Routledge, 2022.

Oleg Yarosh is author of the book chapter 'Ukraine' in: Yearbook of Muslims in: Europe. Volume 14 by Samim Akgönül et al. Brill, 2022.

Natalia P. Vidal is co-author of the book chapter 'Fish-derived functional foods and cardiovascular health: An overview of current developments and advancements' in: Functional Foods and Their Implications for Health Promotion by Ioannis Zabetakis et al. (eds). Academic Press Inc, 2022.

Christina Kkona is author and editor of the book chapter 'Xenophilic Queerness in Virginia Woolf and Reinaldo Arenas' in: *Migrating Minds: Theories and Practices of Cultural Cosmopolitanism* by Didier Coste et al. (eds). Routledge, 2023.

Katarzyna Jażdżewska is author of the book chapter '62. End of a Lease Contract' in: *Greek, Demotic and Coptic Papyri and Ostraca in the Leiden Papyrological Institute* by F. A.J. Hoogendijk and J. Vera Stolk. Brill, 2023.

Kei Hiruta is author of the book chapter 'Hannah Arendt' in: *Rethinking Political Thinkers* by Manjeet Ramgotra and Simon Choat. Oxford University Press, 2023.

Mie Andersen is author of the book chapter 'Software and Resources for Experiments and Data Analysis' in: Language Electrified: Principles, Methods and Future Perspectives of Investigation by Mirko Grimaldi et al. (eds.) Springer Link, 2023.

Helen van Noorden is author of the book chapter 'Anti-Roman Sibyl(s)' in: *Articulating Resistance under the Roman Empire* by Daniel Jolowicz & Jas Elsner. Cambridge University Press, 2023.

PUBLICATIONS - JOURNAL ARTICLES

Sandra Eckert is author of the article 'European administrative networks, private networks and agencies: coexisting, cooperating or competing?' in: *Journal of European Public Policy*, 1 September 2022.

Iwona Janicka is author of a book review of 'Rethinking Anarchy: Direct Action, Autonomy, Self-Management' in: *Anarchist Studies*, 2 September 2022.

Corina Ciobotaru is author of the article 'Strong Transitivity, the Moufang Condition and the Howe-Moore Property' in: *Transformations Groups*, 6 September 2022.

Lau Møller Andersen is first-author of the article 'Task requirements affect the neural correlates of consciousness' in: European Journal of Neuroscience, 9 September 2022.

Markus Rinschen is first-author of the article 'The mechanism of macroautophagy: The movie' in: Autophagy Reports, 14 September 2022.

Alina Korobeinyk is co-author of the article 'Effectiveness of Bio-Waste-Derived Carbon Doping on De-Icing Performance of an Electrically Resistant Concrete' in: *Coatings*, 27 October 2022.

Lisa M. Wu is co-author of the article 'Circadian disruption and cancerand treatment-related symptoms' in: *Frontiers in Oncology*, 28 October

Niels Chr. Hansen is co-author of the article 'Linked auditory and motor patterns in the improvisation vocabulary of an artist-level jazz pianist' in: *Cognition*, 29 October 2022.

Laura Helena Nissin is author of the book review 'The Materiality of Pompeian Inscriptions' of F. Opdenhoff, Die Stadt als beschriebener Raum. Die Beispiele Pompeji und Herculaneum. Berlin and Boston: De Gruyter, 2021 in: *The Classical Review*, 2 November 2022.



Photo: AIAS 10-Year Anniversary, June 2023.

Credit: Lise Balsby.

Anastasiia Zymaroieva is first-author of the article 'Strong Decline in Breeding-Bird Community Abundance Throughout Habitats in the Azov Region (Southeastern Ukraine) Linked to Land-Use Intensification and Climate' in: *Diversity*, 24 November 2022.

Fulvio Reggiori is co-author of the article 'Membrane Contact Sites in Autophagy' in: *Cells*, 28 November 2022.

Markus Rinschen is first-author of the article 'VPS34-dependent control of apical membrane function of proximal tubule cells and nutrient recovery by the kidney' in: *Science Signaling*, 29 November 2022.

Borys S. Negrutskii is first-author of the article 'The eEF1 family of mammalian translation elongation factors' in: *BBA Advances*, 7 December 2022.

Jeffrey Kerby is co-author of the article 'Ecology, evolution, and conservation of Ethiopia's biodiversity' in: *PNAS*, 9 December 2022.

Christos Tsirogiannis is co-author of the article 'The Forger's tale: an insider's account of corrupting the corpus of Cycladic figures' in: *International Journal of Cultural Property*, 9 December 2022.

Helen Van Noorden is author of the article "'Vergil and Homer opened my books:" The Sibyline Oracles and the non-Jewish canon' in: *Journal for the Study of the Pseudepigrapha*, 19 December 2022.

Katarzyna Jażdżewska is author of the book review of S. Panayotakis, M. Paschalis (eds.), 'Slaves and Masters in the Ancient Novel (Ancient Narrative Supplementum 23)' in: *Gnomon. Kritische Zeitschrift für die gesamte klassische Altertumswissenschaft*, December 2022.

Jaap Timmer is author of the article 'Menciptakan Masa Lalu di Kalangan Orang Asmat, Papua Barat Daya' in: *Masyarakat Indonesia: Jurnal Ilmu-Ilmu Sosial Indonesia*, 2023.

Lau Møller Andersen is author of the book chapter 'Software and Resources for Experiments and Data Analysis' in: Language Electrified: Principles, Methods and Future Perspectives of Investigation, 2023.

Ward Keeler is author of the article 'Attaching shame to hierarchy and hierarchy to some versions of attachment' in: *Ethos. Journal of the Society for Psychological Anthropology*, 1 January 2023.

Natalia Vidal is first-author of the article 'Quality and chemical stability of long-term stored soy, canola, and sunflower cold-pressed cake lipids before and after thermomechanical processing: A 1H NMR study' in: *LWT*, 4 January 2023.

Rasmus O. Bak is co-author of the article 'Development of HIV-Resistant CAR T Cells by CRISPR/Cas-Mediated CAR Integration into the CCR5 Locus' in: *Viruses*, 10 January 2023.

Philipp Reick is first-author of the article 'From hatred to hope: Emotions, memory and the German labour movement in the late-nineteenth century' in: *Memory Studies*, 26 January 2023.

Rasmus O. Bak is co-author of the article 'Enrichment of transgene integrations by transient CRISPR activation of a silent reporter gene' in: Molecular Therapy - Methods & Clinical Development, 16 February 2023.

Fulvio Reggiori is co-author of the article: 'Digest it all: the lysosomal turnover of cytoplasmic aggregates' in: *Trends in Biochemical Sciences*, 16 February 2023.

Rasmus O. Bak is co-author of the article 'CD5 expression by dendritic cells directs T cell immunity and sustains immunotherapy responses' in: *Science*, 17 February 2023.

Yanxia Zhang is co-author of the article 'Phthalate pollution and migration in soil-air-vegetable systems in typical plastic agricultural greenhouses in northwestern China' in: Science of The Total Environment, 25 February 2023.

Barbara Berger is appointed a topic editor of the special journal topic 'Modulation of Neurostimulation Effects by Fluctuations of Ongoing Activity in the (Central) Nervous System' for *Frontiers in Cognition*, April 2023.

Fulvio Reggiori is co-author of the article 'Heteromeric clusters of ubiquitinated ER-shaping proteins drive ER-phagy' in: Nature, 24 May 2023.

Jeffrey Kerby is co-author of the article 'Large herbivore diversity slows sea ice-associated decline in arctic tundra diversity' in: *Science*, 22 June 2023

Mie Andersen is author of the article 'Revelations of the d band' in: *Nature Catalysis*, 26 June 2023.

Lisa M. Wu is co-author of the article 'Søvnens betydning for hukommelse, indlæring og andre kognitive funktioner' in: *Udskrift For Læger*, 26 June 2023.

Lisa M. Wu is co-author of the article 'Psychological and behavioral symptoms in patients with melanoma: A systematic review and meta-analysis' in: *Psycho-Oncology*, 27 June 2023.

Fulvio Reggiori is co-author of the article 'Mammalian ATG8 proteins maintain autophagosomal membrane integrity through ESCRTs' in: *EMBO J*, July 2023.

Kei Hiruta is author of the article 'Fukuzawa, Liberalism, and the Imperial Temptation' in: *Comparative Political Theory*, 11 July 2023.

Yanxia Zhang is co-author of the article 'Sediment core records and impact factors of polycyclic aromatic hydrocarbons in Chinese lakes' in: *Environmental Research*, 22 July 2023.

Mie Andersen is co-author of the article 'Descriptors for binding energies at clusters: The case of nanosilicates as models of interstellar dust grains' in: The Journal of Chemical Physics, 28 July 2023.

Sylvie Tesson is first-author of the article 'Aerosolization flux, bio-products, and dispersal capacities in the freshwater microalga Limnomonas gaiensis (Chlorophyceae)' in: *Nature Communications - Biology*, 3 August 2023.

Corina-Gabriela Ciobotaru is first-author of the article 'Polyhedral compactifications, I' in: *Advances in Geometry*, 11 August 2023.

Markus Rinschen is author of the article 'An integrated organoid omics map extends modelling potential of kidney disease' in: *Nature Communications*, 14 August 2023.

Natalia Vidal is co-author of the article 'Preparation and characterization of self-standing biofilms from compatible pectin/starch blends: Effect of pectin structure' in: International Journal of Biological Macromolecules, 25 August 2023.

EXTERNAL ACADEMIC ACTIVITIES

Joshua Nash is editor and initiator of the journal *Some Islands: A journal of linguistics and art, No 1, 2022.*

Kei Hiruta gave a talk at the workshop on Rethinking Political Thinkers, Centre for Comparative Political Thought, SOAS, University of London, UK, 5-6 September 2022.

David Ciepley gave the talk 'Democracy and the Corporation—the Long View' at SCORE (Stockholm Center for Organizational Research), Stockholm University, Sweden, 22 September 2022.

Ruben Pauwels gave two talks 'Introduction to CBCT acquisition and reconstruction' and 'Applications of Al in medicine and dentistry' at The Arctic University of Norway in Tromsø, Norway, 7 October 2022.

David Ciepley gave a talk 'From Seedbed of Constitutional Democracy to Stronghold of Autocracy: The Anglo-American Corporation's Historical Declension at the workshop *Enhancing Accountability in Corporate and Financial Governance*, Monash University, Prato, Italy, 10-11 October 2022.

Ruben Pauwels gave a talk 'What is new in CBCT?' at the 4th International Congress of Oral Diagnosis and Maxillofacial Radiology Society, Turkey, 19-23 October 2022.

Magdalena Malecka gave a talk 'Al and discriminative decision-making in recruitment: behind the core assumptions' at the CEPDISC'22 Conference on Discrimination, Political Science, Aarhus University, 24-26 October 2022.



Photo: AIAS Conference 'Rebuilding of Ukraine', 28 March 2023.

Credit: Lars Kruse.

Elmira Muratova gave a talk 'Memory Politics in Crimea' at the workshop on Truth and Untruth, Transmission of Memories of War, at Charles University, Prague, Czech Republic, 4-5 November 2022.

Jaap Timmer gave a talk 'Divining the Past Kastom and State in the Historicity for Malaita's Theocracy, Solomon Islands' at the Department of Anthropology Seminar Series, University of Bergen, Norway, 7 November 2022.

Jaap Timmer organized a workshop 'Historicity and Anthropology' at University of Bergen, Norway, 18 November 2022.

Markus Rinschen gave the keynote lecture 'The Kidney's Bioactive Metabolome" at the *Taiwan multi-omics and precision medicine joint conference*, 22 November 2022.

Markus Rinschen gave a renal talk 'A systems approach to FSGS' at the Triservice General Hospital, Taipei, Taiwan, 22 November 2022.

Bridget Vincent gave a talk 'Priorities in Denise Riley's Lurex' at the poetry conference *Out of the Ordinary: On Poetry and the World*, University of Canberra, Australia, 5-7 December 2022.

Elmira Muratova gave a talk 'Crimean Tatars in a Digital Age: Religious Authorities and Online Media' at the workshop *Digital Minority Religion: Methodologies, Trends, and Patterns*, European Center for Minorities Issues, Flensburg, Germany, 8-9 December 2022.

Elmira Muratova gave a talk 'Crimean Tatar People after the 2014 Annexation: Ethnic Institutions, Political Activism and Gender Roles' at the workshop *Political Ethnography of State and Society in Post-Soviet Contexts in the Shadow of the Russian Invasion to Ukraine*, Yale University, USA, 9-10 December 2022.

Laura Nissin organized a panel discussion 'Poikkitieteellisyys antiikintutkimuksessa, mitä se on ja mitä se voisi olla' (in English: Cross-disciplinarity in Ancient Studies – what it is and what it could be) at the *Finnish Conference on Ancient Studies*, University of Helsinki, 27 January 2023.

Jihan Zakarriya gave the talk 'Religious Violence and Female Military Activism' at the *International Conference on Religious Violence and Radicalization* in Dubia, United Arab Emirates, 22-24 March 2023.

Jihan Zakarriya gave the talk 'Internet as a Means of Revelation in the Saudi Novel Girls of Riyadh (2005) by Rajaa al-Sanea' at the *International Conference on English Literature and Linguistics*, Saudi Arabia, 26-27 April 2023.

Barbara Berger gave the talk 'Functional connectivity patterns enabling working memory processes' at the *Interacting Minds Center Seminar*, Aarhus University, 2 May 2023.

Elmira Muratova co-organized an expert workshop 'The War in Ukraine and its Impact on Ethno-Religious Minorities in the Region' at the European Center for Minority Issues, Flensburg, 4-5 May 2023.

Corina-Gabriela Ciobotaru gave the talk 'The Geometry Of P-Adic Numbers' at the conference *Women Mathematicians in Sciences 2023*, University of Southern Denmark, 11-12 May 2023.

Jihan Zakarriya participated in a discussion panel regarding research environments at the *Building Bridges for the Next Generation Conference*, Dresden, Germany, 16-17 May 2023.

Jihan Zakarriya gave a lecture 'Gender and Environmental Violence in Modern Arabic Literature' at *EcoLit symposium*, University of Oslo, 24 May 2023.

Elmira Muratova gave the talk 'Islam, Repression, and Memory' at a webinar organized by the Center for Russian, East European, and Eurasian Studies, University of Pittsburg, USA, 1 June 2023.

Alexandra-Iulia Otiman gave a talk 'Bott-Chern cohomology of compact Vaisman manifolds' at the *Congress of Romanian Mathematicians*, Pitesti, Romania, 30 June - 5 July 2023.

Corina-Gabriela Ciobotaru organized a reception on Women's networking at NCM29 at the *29th Nordic Congress of Mathematicians*, Aalborq, 3 July 2023.

Corina-Gabriela Ciobotaru gave the talk 'Symmetry breaking for PGL_2 over a local field' at the Workshop *Kac—Moody Geometry*, at Kiel University, Germany, 24-28 July 2023.

Corina-Gabriela Ciobotaru gave a mini-course 'An Introduction to Bruhat-Tits buildings' at the conference *Coarse geometry and dynamics*, ENS Lyon, France, 30 August 30 - 1 September 2023.

AWARDS, APPOINTMENTS AND GRANTS

Magdalena Malecka was elected a coordinator of the East European Network for Philosophy of Science (EENPS), September 2022.

Jihan Zakarriya was awarded an ERC Starting grant of DKK 11 million to the project 'GulfFeminisms' from the European Research Council. Awarded: November 2022.

Mie Andersen was awarded a grant of DKK 2.6 million within the Natural and Technical Sciences by the Novo Nordisk Foundation for her project entitled 'Data-Driven Modelling of Oxide Catalysis.'. Awarded: December 2022.

Corina-Gabriela Ciobotaru was awarded a Villum Young Investigator grant of DKK 6 million to the project 'Limits of geometries over the p-adic numbers'. Awarded: January 2023.

Fulvio Reggiori is co-recipient of a DKK 20 million (EUR 2.7 million) Lundbeck Foundation Collaborative Project grant to study Parkinson's disease with an aim to transform and improve treatment. Awarded on: 16 January 2023. **Shiru Lim** has been awarded a Social Science Research Council (Singapore) Graduate Research Fellowship (2023-25) grant of SGD 9,000 (approx. 46,000 DKK) for her project 'Intellectual Capital: Cities, Publics, and the Urban Lives of Ideas.' Awarded: March 2023.

Alexandra-Iulia Otiman was awarded the Nicolae Dinculeanu prize for young researchers in mathematics under the age of 40, awarded every fourth years by the Romanian Academy, Bucharest, July 2023.

IN THE MEDIA

Sofia Opatska gave an interview to the magazine *Djøfbladet* for the article 'Hun har fået fred til at forske. Men nu tager hun hjem og genopbygger Ukraine' about her research on Marshall plans for Ukraine, 7 September 2022.

Iza Romanowska gave an interview to *Newsweek* about her recent study on food insecurity in Ancient Palmyra for the article 'Ancient Palmyra's Catastrophic Fall Is Terrifying Premonition of Our Future', 6 October 2022

Oleg Yarosh gave an interview to *ScienceReport* about his AUFF-Ukraine fellowships stay in Denmark 'Ukrainske forskere kaster et blik på dansk forskning', 11 November 2022

Niels Chr. Hansen's research was mentioned by Forbes in the article 'Science Shows That Jazz Musicians Have Their Own Individual Music Vocabulary', 21 November 2022.

Niels Chr. Hansen gave an interview to the Danish newspaper *Kristeligt Dagblad* about a new research study on jazz and improvisation for the article 'Forskere kortlægger jazzmusikeres toneforråd', 24 November 2022.

Niels Chr. Hansen gave an interview to the Danish radio station Radio 4 Aften about a new research study on the effects of listening to music in daily life during the COVID-19 lockdown, 25 January 2023.

Niels Chr. Hansen gave an interview to the Danish magazine *Videnskab.dk* about a new study of the effects of listening to music in daily life during the COVID-19 lockdown for the article 'Glad musik kan have mindsket stress under nedlukningen', 25 January 2023.

Niels Chr. Hansen gave an interview to the Danish national broadcast DR P4 about a new research study on the effects of listening to music in daily life during the COVID-19 lockdown, 30 January 2023.

EVENTS AT AIAS



In this section, you can find a **selection of the events at AIAS** organized by the AIAS fellows, by Aarhus University faculty members or by external collaborators in the year of 2022-2023. We hope the great variation in topics and formats will inspire you. AIAS is always open for **collaboration and exchange**...



Photo: AIAS 10-Year Anniversary, June 2023.

Credit: Lise Balsby.

EVENTS AT AIAS

AlAS Conference: Building(s) in Aarhus: 2-day mathematics' conference on group theory and geometry organised by AlAS Fellow Corina-Gabriela Ciobotaru, 1-2 September 2022.

Conference: The life cycle of cosmic PAHs. Organised by the Department of Physics and Astronomy, Aarhus University, 5-9 September 2022. AIAS Seminar Series: 'The Architecture of Warning: Urban Ruins and the Ecological Imagination' by AIAS Fellow Bridget Vincent, 12 September 2022.

BIOCHANGE Symposium: 2-day symposium on new perspectives on biodiversity dynamics and stewardship under future global change. Organised by Center for Biodiversity Dynamics in a Changing World (BIOCHANGE), 13-14 September 2022.

AIAS Seminar Series: Introduction Research Presentations: New AIAS Associates and fellows present their research in short 6-minute presentations, 16 September 2022.

Emerging Concepts in Cell & Developmental Biology: 4-day conference on the future of Cell & Developmental Biology. Organised by AIAS Associate Felicity Davis, Department of Biomedicine, Aarhus University and NewPICellDev, 20-23 September 2022.

AIAS Seminar Series: 'Cellular recycling: From cell digestion to coronaviruses' by AIAS Fellow Fulvio Mario Reggiori, 26 September 2022.

AIAS Symposium: To tell a life: 2-day symposium on life story psychology in honour of Tilmann Habermas. Organised by AIAS Associate Annette Bohn, CON AMORE, Department of Psychology and Behavioural Sciences, Aarhus University & Christin Camia, Department of Psychology, Zayed University, 29-30 September 2022.

AIAS Seminar Series: 'Luxury in Ancient Sparta' by AIAS Fellow Paul Christesen. 10 October 2022.

AIAS Conference: Earth Sensations: 2-day conference on the affects, sensibilities and attachments in an era of climate change. Organised by AIAS Fellow Iwona Janicka and AIAS Associate Tobias Skiveren, Department of Scandinavian Studies, Aarhus University, 13-14 October 2022.

AIAS Seminar Series: 'Invasive S.muticum seaweed: Potential use as food bioactive ingredient' by AIAS Fellow Natalia Prieto Vidal, 24 October 2022.

AIAS Talk: 'Learning culture' in the Danish education system' - a presentation of the Danish Education System. Organized by Centre for Educational Development, Aarhus University, 28 October 2022.

AIAS Seminar Series: 'Democracy at Work: A Historical Case Study' by AIAS Fellow Philipp Reick, 7 November 2022.

AIAS Workshop: Pasts in the Making: 2-day international workshop on historical awareness and agency. Organised by AIAS Fellow Jaap Timmer and Ton Otto, Department of Anthropology, Aarhus University, 10-11 November 2022.

Rethink Eating 2022: What's next for Chemical Senses Research? On the future of eating in new, unorthodox ways. Organised by Associate Fellow Qian Janice Wang, Department of Food Science, Aarhus University, 15 November 2022.

AIAS Seminar Series: 'Cormorant: A Natural History of Prejudice' by AIAS Fellow Gordon McMullan, 21 November 2022.

AIAS Joint Research Presentations - Future Interdisciplinary directions and collaborations: 12 short presentations by former, current and Associate fellows. Organised by AIAS, Aarhus University, 28 November 2023.

AIAS Project Recap Seminar - Progress, Challenges and Changes: Three 15-minute talks by AIAS Fellows Jeffrey Kerby, Niels Chr. Hansen and Ruben Pauwels, 12 December 2022.

AIAS Seminar Series: 'How we remember: Functional network dynamics supporting Working Memory and Attention' by AIAS Fellow Barbara Berger, 30 January 2023.

AIAS Seminar Series: 'To see what cannot be seen: A brief guide to recent developments in geometry' by AIAS Fellow Zakarias Sjöström Dyrefelt, 6 February 2023.

AIAS at IMC Seminar: 'Playing for keeps? Unequal players and adolescent social play in times of crisis,' by AIAS Fellows Luseadra Joy McKerracher, AIAS Fellow, 7 February 2023.

AIAS Seminar Series: 'Modern economics and the computer - epistemology of an uneasy relationship' by AIAS Fellow Magdalena Malecka, 20 February 2023.

AIAS Dual Talk: 'Complexity science and Self-organised Criticality' by AIAS Visting fellow André Costopoulos, University of Alberta, Canada and AIAS Fellow Iza Romanowska, 13 March 2023.

AlAS Seminar Series: 'Making Sense of Roman Homes' by AlAS Fellow Laura Nissin. 27 March 2023.

AIAS Conference: Rebuilding of Ukraine - People, Ideas, Technologies and Resources: On Ukraine's economic-social and scientific-educational stabilization and recovery from the effects of war. Organised by the AUFF-Ukraine Research Fellows, 28 March 2023.

AIAS Seminar Series: 'Metabolic kidney protection' by AIAS Fellow Markus Rinschen, 17 April 2023.

AIAS Seminar Series: 'Sentience Attributed to Machines' by AIAS Fellow Peter Fazekas, 24 April 2023.

AIAS at the 2023 Festival of Research: 20-minute speed lecture on 'The ego in medicine: healthy self-confidence or bullying?' by AIAS Fellow Anastasiia Sydorenko, 26 April 2023.

AIAS Conference: Making Sense of Sensory Studies: 2-day interdisciplinary conference on sensory studies. Organised by AIAS Fellow Laura Nissin and Associate Professor Qian Janice Wang, University of Copenhagen, 27-28 April 2023.

AIAS Seminar Series: 'A cerebellar clock? Cerebellar capabilities, functional relevance and Parkinson's disease' by AIAS Fellow Lau Møller Andersen, 1 May 2023.

AIAS at IMC Seminar: 'Functional connectivity patterns enabling working memory processes: Talk by AIAS Fellow Barbara Berger, 2 May 2023. AIAS at CLIC ERC Seminar: 'Moral Complicity in the Poetry of Derek Mahon' by AIAS Fellow Bridget Vincent on, 2 May 2023.

Conference: Contentious Data, Algorithms, & Digital Activism: 2-day conference organised by Laboratory for Democratic Innovations and Social Movements (DEMINOVA), 11-12 May 2023.

AIAS Seminar Series: The Problems of Philosophic Government: Intellectuals & the State in the History of Ideas' by AIAS Fellow Shiru Lim, 22 May 2023.

AIAS 10-Year Anniversary: Celebration of AIAS's 10-year birthday. 10 academic speed-talks by 10 fellows marking10 years with excellent research, interdisciplinary exchanges and international collaboration. Followed by a photo and VR exhibition on the Arctic, music and networking. Organised by AIAS, 13 June 2023.

AlAS Conference: Cyborg Workers: The Past, Present and Future of Automated Labour: 2-day interdisciplinary conference exploring the long and contested history of mechanized and automated labour. Organised by AlAS Fellows Magdalena Małecka and Philipp Reick, 14-15. June 2023



Photo: Dual talk by former AIAS Fellows Helen Van Noorden and Bjørn Panyella Pedersen at the AIAS 10-Year Anniversary, June 2023.

Credit: Lise Balsby.

Conference: Caring Places - Exploring the Topographies of Ethics and Care: 2-day conference. Organised by Center for the Study of Ethics and Community, Center for Philosophy and Health Sciences, and Windows of Opportunity, Faculty of Arts, Aarhus University, 28-29 June 2023.

The Inauguration of Center for Ecological Dynamics in a Novel Biosphere (ECONOVO) - A Danish National Research Foundation Center of Excellence. Organised by ECONOVO, Department of Biology, Aarhus University, 16 August 2023.

Conference: Impurity Physics with Cold Atoms and Ions: 3-day conference. Organised by Center for Complex Quantum Systems, Department of Physics and Astronomy, Aarhus University, 21-23 August 2023.

BOOKING OF AIAS' FACILITIES?

AIAS and its facilities are open for booking to all members of staff from all faculties, departments and centres at Aarhus University, and by requests from external collaborators.



Know more about the opportunities available at AIAS by visiting: aias.au.dk/opportunities-at-aias/synergies-with-aarhus-university or by sending a booking request to: booking@aias.au.dk

ORGANISATION, STAFF AND FUNDING



ORGANISATION, STAFF AND FUNDING

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NEW AIAS THEME-BASED FELLOWSHIPS

Interdisciplinary research collaboration and innovative ideas are prerequisite for tackling joint societal challenges. To address this need, AIAS opened two new theme-based fellowships within the research themes of:

- PIREAU Platform for Inequality Research at Aarhus University
- SHAPE Shaping Digital Citizenship

The theme-based fellows will work on an individual research project, but together with a theme-group of fellows, they will address and explore a common theme from an interdisciplinary and collaborative perspective.

Learn more about the theme-based fellowships:

https://aias.au.dk/aias-fellows/theme-based-fellows



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