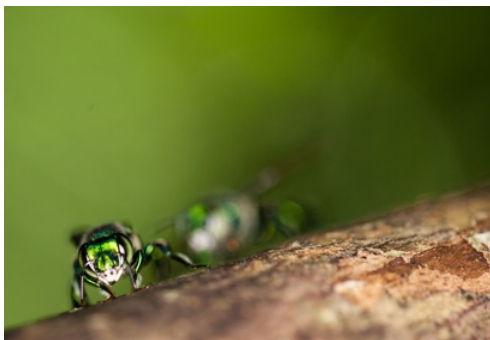
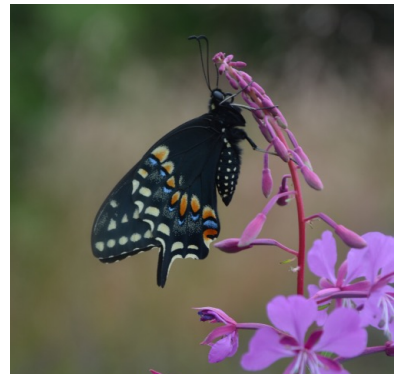
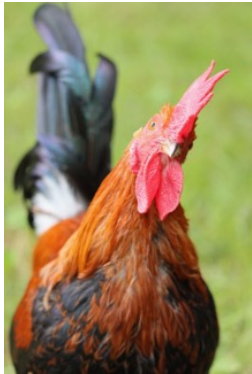


# ISBE 2022

18<sup>th</sup> International Society for Behavioral Ecology Congress

## CONFERENCE GUIDE



28<sup>th</sup> July – 3<sup>rd</sup> August  
Stockholm Waterfront  
Congress Centre  
Stockholm, Sweden

# Conference Overview

Time	Thursday 28/07	Friday 29/07	Saturday 30/07	Sunday 31/07	Monday 1/08	Tuesday 2/08	
8:45 – 9:00		Welcome					
9:00-10:00		Plenary Lecture Redouan Bshary	Plenary Lecture Jenny Tung	Plenary Lecture Yossi Yovel	Plenary Lecture Mariella Herberstein	Plenary Lecture Toshitaka Suzuki	
10:00-10:45		Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	
10:45-12:40		Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	
12:40-14:10		Lunch	Lunch	Lunch	Lunch	Lunch	
14:10-15:25		Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	Contributed Talk Session	Hamilton Lecture Hanna Kokko	
15:25-16:10		Registration (15:00 – 18:00)	Coffee break	Coffee break	Excursions and Activities	Coffee break	Closing remarks (15:20-15:45)
16:10-17:45			Contributed Talk Session	Contributed Talk Session		Contributed Talk Session	Gala Dinner at Skansen
18:00 – 20:00		Welcome Reception		Poster Session 1		Poster Session 2	(17:00 – midnight)

# Plenary Speakers

All plenary lectures will take place in Auditorium A1

## Redouan Bshary

University of Neuchâtel



Redouan Bshary is a professor in behavioural ecology at the University of Neuchâtel. He is interested in the evolution of helping between unrelated individuals. His work largely focuses on mutualisms between species, including his favourite study organism - the cleaner wrasse *Labroides dimidiatus*. His research shows that we need a diversity of concepts and corresponding mechanisms to understand how cheating can be kept in check. His recent work focuses on the cognitive and physiological mechanisms underlying cooperative decision-making.

### Putting biology into cooperation theory

As evolutionary theory emphasizes competition, any forms of helping has attracted considerable attention. While altruistic helping can be readily explained with kin selection, a variety of concepts is needed to explain cooperation within and mutualism between species. Borrowing from economics, these concepts are typically illustrated with simple games, of which the iterated prisoner's dilemma is the most famous example. My aim is to share my current thoughts about why we need to get beyond such simple games and how to do that in order to integrate evolutionary game theory and empirical research. In social species, individuals often face uncertainty about their social environment and hence must use various information to choose appropriate behaviours (termed 'social competence'). Modelling such 'large world' problems includes the challenge to be explicit about mechanisms underlying decision-making. Empirical data, for example on learning dynamics, can inform such modelling. I will illustrate my points with thought experiments, stories, and a variety of examples, including our research on marine cleaning mutualism.

Redouan's plenary lecture will take place on  
**Friday 29th, July at 9am**

# Plenary Speakers

*All plenary lectures will take place in Auditorium A1*

## Jenny Tung

Duke University



Jenny Tung is an Associate Professor of Evolutionary Anthropology and Biology at Duke University and an affiliate of the Duke Population Research Institute and the Center for Genomic and Computational Biology. Her research focuses on the intersection between behaviour, social structure, and genes. She is particularly interested in how the social environment influences gene regulation, population genetic structure, and health and survival across the life course. She primarily pursues these questions in nonhuman primates and other social mammals, both wild and captive.

### **The social genome**

Why does genomics need animal behavior? And what insights can genomics offer behavioral ecologists in return? This talk will offer one perspective on these questions, drawing on examples from my group's work on primates and other social mammals. I will discuss how genomic approaches reveal the mechanisms that connect social relationships to their consequences for health and fitness—thus linking complex behavioral interactions at the whole-organism level to changes in gene regulation at the molecular scale. I will also highlight the value of genetic data as a window into evolutionary history beyond that achievable through phenotypic analyses alone—and, reciprocally, the importance of behavioral observations for understanding patterns embedded in the genome. Together, this work stresses the importance of interpreting genomic information through an organismal lens.

Jenny's plenary lecture will take place on  
**Saturday 30th, July at 9am**

# Plenary Speakers

*All plenary lectures will take place in Auditorium A1*

## Yossi Yovel

Tel Aviv University



Yossi Yovel is a professor in the School of Zoology and the Sagol School of Neuroscience at Tel Aviv University. He is interested in a wide range of fundamental behaviors, including long and short-range navigation, social networks and collective behavior, sensory decisions making, inter-sensory integration, vocal communication as well as bio-sonar and bio-inspired robotics. His research focusses on bats - extreme aviators and amazing navigators. This novel miniature technology, his work documents and models foraging decision in the real world from a bat's point of view.

### **Foraging decision making in the real world – the bat's point of view**

Bats are extreme aviators and amazing navigators. Many bat species nightly commute dozens of kilometres in search of food, and some bat species annually migrate over thousands of kilometres. Studying bats in their natural environment has always been extremely challenging because of their small size (mostly <50 gr) and agile nature. We have developed novel miniature sensors allowing us to GPS-tag small bats, thus opening a new window to document their behaviour in the wild. We have used this technology to track bat pups over months from birth to adulthood. Following the bats' full movement history allowed us to show that they use novel short-cuts which are typical for cognitive-map based navigation. Using miniature microphones placed on the bats, we can also inferred and studied their foraging success and social behaviour. This novel technology thus allows us to document and model foraging decision making in real-life large scale over long time periods.

Yossi's plenary lecture will take place on  
**Sunday 31st, July at 9am**

# Plenary Speakers

*All plenary lectures will take place in Auditorium A1*

## **Mariella Herberstein** Macquarie University



Mariella Herberstein is a professor in the Department of Biology at the Macquarie University. She is interested in all aspects of spider behaviour - from sexual selection through to predator-prey interactions, deception and mimicry. Her research highlights the extraordinary and often bewildering complexity of spider behaviour. This includes significant intra and inter-individual variation in web building behaviour, the ability to learn, and the ability to adjust the protein composition of silk. Her recent work focuses on how behavioural research can be scaled to incorporate variation across landscapes and by mapping behaviour into trait spaces.

### **Perspectives on behavioural ecology from natural history to trait-based approaches at a landscape scale**

Behavioural ecology is a relatively young field of research with strong theoretical and empirical approaches, whilst grounded in natural history. One of the empirical challenges in behavioural ecology is to describe broad patterns of behaviour. On the other hand, a practical challenge is to apply fundamental behavioural knowledge to problems emerging from anthropogenic impacts. In this talk, I want to draw out the opportunities that arise from shifting the scale of scientific enquiry to large-scale comparative approaches- spatially, temporally or taxonomically- that systematically capture variation in key fitness traits. I will illustrate these from excellent examples in the literature and some of the work in my own group and research network. Finally, I would like to infuse this talk with perspectives on my own career, diversity and inclusion in research and, as per request, Eurovision.

Mariella's plenary lecture will take place on  
**Monday 1st, August at 9am**

# Plenary Speakers

All plenary lectures will take place in Auditorium A1

## Toshitaka Suzuki

Kyoto University



Toshitaka Suzuki is an assistant professor in the Hakubi Center for Advanced Research at Kyoto University. He is primarily interested in the fields of animal behavior, communication, cognition, and language evolution. His research focuses on vocal communication of wild birds, often using the Japanese tit (*Parus minor*). His research has demonstrated key components of language in Japanese tits, including compositional syntax, grammatical rules, and visual mental imagery. His research on linguistic features in wild animals contributes to our understanding the origins and evolution of human language.

### **Animal linguistics: Exploring elements of language in non-human species**

How does language evolve? Although different researchers may define language differently, uncovering the evolution of complex communication systems, such as human language, is a major challenge for science. One promising approach is to focus on the individual cognitive abilities required for human language and to seek their origins and similarities in non-human animals. However, field studies to identify linguistic capacities in wild animals have only just begun and its experimental paradigm remains to be developed. Here, I introduce my 16-years field studies exploring linguistic capacities in a wild bird species, the Japanese tit (*Parus minor*). This small bird species uses many different call types in a variety of contexts, such as predator encounters or social interactions, and often combines multiple call types into larger sequences. Field experiments have revealed that Japanese tits use these calls to refer to external objects (specific predator types) and to convey compositional messages (two-word phrases). These findings indicate that several linguistic capacities, such as referentiality and compositionality, once considered to be unique to humans, have evolved in birds. I introduce some novel paradigms for investigating linguistic capacities in wild animals and propose a novel scientific discipline, animal linguistics.

Toshitaka's plenary lecture will take place on  
**Monday 2nd, August at 9am**

# Hamilton Lecture

*The Hamilton Lecture will take place in Auditorium A1*

## Hanna Kokko

University of Zurich



Hanna Kokko is a professor of evolutionary ecology at the University of Zurich. She is primarily a theoretician — but one who loves working with empiricists and also, in her own work, hopes to improve communication between these approaches. Her research focuses on a variety of topics, ranging from sexual reproduction and sex role evolution to space use, dispersal and migration, social evolution, interspecific interactions and life history theory. These endeavours have been recognized with prizes such as ASAB's Outstanding New Researcher Award, The British Ecological Society's Founders' Price, and The Oikos Per Brinck Award. She is a distinguished

invited member of academic societies in three different countries (Finland, Australia, and the USA) and will serve as the non-North American Vice President of the Society for the Study of Evolution in 2022-2023. In addition to her scientific work, she contributes to outreach in a variety of ways; her popular science book gave rise to various forms of recognition given jointly to the authors Katja Bargum and herself, such as the Finnish Cultural Foundation's Grand Prize, and the Finnish National Knowledge Dissemination prize.

### **From metaphors to theories and their tests**

Metaphors can be a powerful tool to guide intuition, and when successful, they identify the essence of a problem, guiding theory development further and creating testable hypotheses. The obvious danger is that the essence of the problem is misidentified. I will present two examples from my recent work where an oversimplification of a problem may mislead, and reality proves much more exciting. The first example concerns the life-dinner principle in arms races – why one party (the one that has more to lose) might be expected to be 'ahead' in how well it is adapted to deal with the situation. The second example is empirical: how the black coucal, as studied by Ignas Safari and Wolfgang Goymann, can teach a lesson to theoreticians whose first instinct may be to think of trade-offs between mating and parenting in a very either-or fashion, when reality is more complex. My examples will, hopefully, also serve as a reminder that mathematics and statistics are just like other methods: there may be more powerful tools available than what one is so far acquainted with, and more can be achieved if one learns more about them.

Hanna's Hamilton lecture will take place on  
**Monday 2nd, August at 2:10pm**



# Speaker Timetable

## Day 1 – Friday 29 July – Morning Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Cognition	Group living	Parental care	Sexual selection	Social behaviour	Behavioural Plasticity	Anthropogenic effects on behaviour	Predator-prey interactions
<b>Session Chair</b>								
<b>10:40-10:55</b>	<b>Jennifer A. D. Colbourne</b>	<b>Dustin Rubenstein</b>	<b>Marion Devogel</b>	<b>Ginny Greenway</b>	<b>Benedetta Catitti</b>	<b>Eva Serrano Davies</b>	<b>Tamal Roy</b>	<b>Bertille Mohring</b>
	Limb Lateralization in the Goffin's Cockatoo ( <i>Cacatua goffiniana</i> )	The evolution of plural breeding societies	Is vocal communication a key to coordinated parental care in a monogamous seabird, the Little Auk ( <i>Alle alle</i> )?	How does variation in the resource landscape influence mating dynamics in the insect <i>Narnia femorata</i> ?	Natal factors shape movement trajectories and social structure of prospecting immature raptors	Are behavioural and cognitive traits associated with diet composition and parental care during early development?	Size-selective harvesting fosters ontogenetic changes in learning and decision making in zebrafish, <i>Danio rerio</i>	Should I stay or should I go? Drivers of risk-taking behaviour of a long-lived bird under fluctuating predation risk
<b>11:00-11:15</b>	<b>Alex Jordan</b>	<b>Andrew Radford</b>	<b>Timo Thuenken</b>	<b>Tom Keaney</b>	<b>Pierre-Olivier Montiglio</b>	<b>Eve Udino</b>	<b>Christina Elgert</b>	<b>Maxime Fraser Franco</b>
	Testing the social brain hypothesis in the wild: social complexity and brain size in Lake Tanganyikan cichlids	Experimental evidence for delayed responses to cooperation and conflict in social species	Ecology of sexual conflict: Environmental variation and relatedness affect parental cooperation in a biparental fish	Selection on males and the risk of extinction	Multiplayer videogames as study systems to refine ecological and evolutionary theories of animal behavior	How to stay cool: early acoustic and thermal experience alters individual behavioural thermoregulation in the heat	The duration of artificial light defines sexual signalling in the common glow-worm	Predator-prey interactions in a virtual world: effects of experience and prey variability on predator foraging behavior
<b>11:20-11:35</b>	<b>Taiga Kobayashi</b>	<b>Hanna M. Bensch</b>	<b>Axelle Delaunay</b>	<b>Janet L Leonard</b>	<b>Amiyaal Ilany</b>	<b>Dale Broder</b>	<b>Eleanor Gourevitch</b>	<b>Kanika Rawat</b>
	Cleaner fish recognize their accurate body-size based on the mental image of self-body	Costs of competition in social mole-rat groups	Transition to siblinghood in a wild population of chacma baboon	Males: eager or desperate? A perspective from the Dollar Auction	From seconds to generations: what is the scale of social inheritance?	Does plasticity facilitate novel sexual signals	Sexual selection in a changing world: how climate, competition, and mating system shapes sexual selection in insects	The pupal dilemma: How does larval experience influence pupal antipredator behaviour?
<b>11:40-11:55</b>	<b>Stephan A. Reber</b>	<b>Saverio Lubrano</b>	<b>Eva Ringler</b>	<b>Upama Aich</b>	<b>Isla Keesje Davidson</b>	<b>Sean Ehlman</b>	<b>Pizza Ka Yee Chow</b>	<b>Kasturi Saha</b>
	The evolution of fundamental cognition in non-avian dinosaurs – studying deep time with extant phylogenetic bracketing	Mesotocin mediates social bonds and cooperative behaviour in a wild bird	Clutch cannibalism by adult poison frogs	Separating effects of paternal age & mating history: evidence for sex-specific paternal effect in eastern mosquitofish.	When to Woop: Acoustic and visual displays of the Ambon damselfish when faced with conspecific and predatory threats	Developmental feedbacks and the emergence of individuality	'Ripple' effects of urban environmental characteristics on cognitive processes in Eurasian red squirrels.	Sex-specific predation risk across scales in a multimodally duetting katydid
<b>12:00-12:15</b>	<b>Alizée Vernouillet</b>	<b>Andrea Meltzer</b>	<b>Shana Caro</b>	<b>Joe Wilde</b>	<b>Julia Penndorf</b>	<b>Thomas Crouchet</b>	<b>Aparajitha Ramesh</b>	<b>Audrey-Anne Laurin</b>
	Ine-quail-ities in group size and their effects on impulsive aggression and response inhibition	Intergroup conflicts reinforce social bonds among unrelated individuals in a group-living bird	Sex differences in parental responses to offspring begging	Calling in crickets: dealing with competition in your field	Parrot Politics: social cognition in an wild, urban dwelling parrot	Behavioral plasticity in context-dependent foraging in great tits along an elevational gradient	Human-induced isolation causes rapid behavioral divergence with genetic underpinning in resident and migrant stickleback	Can deer keep the coyotes at bay?
<b>12:20-12:35</b>	<b>Djordje Markovic</b>	<b>Ettore Camerlenghi</b>	<b>Chay Halliwell</b>	<b>Johannes Krietsch</b>	<b>Mukta Watve</b>	<b>Cammy Beyts</b>	<b>You Zhou</b>	<b>Eamonn Wooster</b>
	Manipulation of initial task difficulty determines whether sparrows develop social conformity or competitive diversity	Multilevel social structure predicts altruistic behaviour towards conspecifics in a cooperatively breeding songbird	Cooperation, conflict and the coordination of care in the Long-tailed tit.	Extrapair paternity in a sequentially polyandrous shorebird: Limited evidence for the sperm storage hypothesis	No evidence for rent payment by helpers in chestnut-crowned babblers during a removal experiment	The effect of heterospecific and conspecific competition on individual differences in tungara frog tadpole behaviour	How does noise disrupt alarm call communication in birds?	Red foxes avoid apex predation without increasing fear

# Speaker Timetable

## Day 1 – Friday 29 July – Afternoon Session

Session	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session Chair	Acoustic communication	Movement and collective behaviour	Conservation and behaviour	Cooperation	Brood parasitism	Sexual signals	Dispersal	Social learning
<b>14:10-14:25</b>	<b><i>Yitzhak Ben Mocha</i></b>	<b><i>Stefan Popp</i></b>	<b><i>Fay Morland</i></b>	<b><i>Satoshi Awata</i></b>	<b><i>Hannah Scharf</i></b>	<b><i>Menno van Berkel</i></b>	<b><i>Allyssa Kilanowski</i></b>	<b><i>Carla Simões-Henriques</i></b>
	Intentional use of attention-getters facilitates cooperative interactions in wild birds	Searching ants combine systematic meandering and correlated random walks at different spatial scales	Nest microclimate, incubation behaviour and reproductive success of a threatened bird in a restored forest sanctuary	Field and experimental evidence of mutual food-provisioning behaviors in goby-shrimp symbiosis	Host parents respond to parasitic nestling alarm calls regardless of experience with brood parasitism	How does the building ability of great bowerbirds affect the geometry- and signal honesty of their bower court?	Individuality in dispersal that is correlated with life history traits has implications for metapopulation dynamics	A specialized genetic architecture for social learning in <i>Drosophila melanogaster</i>
<b>14:30-14:45</b>	<b><i>Aya Marck</i></b>	<b><i>Ashley Townes</i></b>	<b><i>Fiona Backhouse</i></b>	<b><i>Thomas Hitchcock</i></b>	<b><i>Romina Scardamaglia</i></b>	<b><i>Lutz Fromhage</i></b>	<b><i>Vincent Calcagno</i></b>	<b><i>Sonja Wild</i></b>
	Vocal repertoire, genetic structure, and dialect variations of the White Spectacled Bulbul ( <i>Pycnonotus xanthopygos</i> )	The effects of habitat characteristics and density-dependence on the spatial distributions of spawning sockeye salmon	Habitat fragmentation depletes the cultural richness of Albert's lyrebird mimetic song repertoires	Paternal genome elimination promotes altruism in viscous populations	Evidence for social pair bonds in an obligate brood parasite	The balance model of honest sexual signalling	From behavior to dispersal: density-dependence and the mechanics of spatial spread in groups of parasitic micro-wasps	Disentangling learning pathways across development in great tits ( <i>Parus major</i> )
<b>14:50-15:05</b>	<b><i>Matteo Sebastianelli</i></b>	<b><i>Eduardo Sampaio</i></b>	<b><i>Dianne Brunton</i></b>	<b><i>Kelly Stiver</i></b>	<b><i>Nicholas Antonson</i></b>	<b><i>Carl Soulsbury</i></b>	<b><i>April Robin Martinig</i></b>	<b><i>Thibaud Gruber</i></b>
	Continent-wide patterns of song variation predicted by classical rules of biogeography	Collective behavior and dynamics during interspecific collaborative hunting between octopus and multiple fish species	Integrating avian behaviour and conservation in the Anthropocene; changing song cultures in Saddleback translocations.	Partnership stability in <i>Symphodus ocellatus</i> male cooperative dyads relates to subordinate partner attention to females	Niche construction through a Goldilocks principle maximizes fitness for a nest-sharing brood parasite	Signalling under rapidly changing illumination in lekking black grouse <i>Lyrurus tetrix</i>	The new kid on the block: Immigrant males win big whereas females pay fitness cost after dispersal	Making space for affect in the study of animal communication and social learning
<b>15:10-15:25</b>	<b><i>Juliane Gaviraghi Mussoi</i></b>	<b><i>Elisa Perinot</i></b>	<b><i>Roman Motyka</i></b>	<b><i>Yoav Ram</i></b>	<b><i>Martin Reichard</i></b>	<b><i>Sophia Anner</i></b>	<b><i>Johannes Stökl</i></b>	<b><i>Vedrana Šlipogor</i></b>
	Importance of sleep for vocal communication in adult birds	In-wake flying reduces energy expenditure in free-flying Northern bald ibises	Live in rocks – grow faster: effects of bottom substrate type on behavior and growth of juvenile European eel	Cultural evolution of cooperation: the role of non-vertical transmission	Evolutionary and lifetime arms races between cuckoo catfish and their mouthbrooding cichlid hosts	Varied female and male courtship behavior facilitated the evolution of a novel sexual signal	Dispersal from Natal Patch Correlates with the Volatility of Female Sex Pheromones in Parasitoid Wasps	Common marmosets learn socially via video demonstrations under captive and natural conditions

# Speaker Timetable

## Day 1 – Friday 29 July – Evening Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Sensory ecology	Host-parasite interactions	Animal personality	Sexual selection	Climate change and behaviour	Foraging	Migration	Life histories
<b>Session Chair</b>								
<b>16:10-16:25</b>	<b>Roksana Wilson</b>	<b>Aaron Wikle</b>	<b>Mélissa Peignier</b>	<b>Samuel Snow</b>	<b>Aneta Arct</b>	<b>Lysanne Snijders</b>	<b>Violeta Caballero Lopez</b>	<b>Euan A. Young</b>
	How the spectral composition of a white light influences its attractiveness to biting flies	Behavioral and Neurophysiological Responses of a Parasitoid to Novel Host Signals	Opposing effects of personality traits on mating and cross-generational reproductive success	Fighting Isn't Sexy in Lekking Greater Sage-grouse ( <i>Centrocercus urophasianus</i> )	Effects of elevated nest box temperature on incubation behaviour in the collared flycatcher	Social foraging going wild: social facilitation of patch discovery in Trinidadian guppies	Transposon copy number correlates with migratory behaviour in willow warbler	Offspring reproductive success is a greater determinant of human genetic contributions than offspring number or survival
<b>16:30-16:45</b>	<b>Miriam Scriba</b>	<b>Enikő Csata</b>	<b>Birgit Szabo</b>	<b>Eleanor Bath</b>	<b>Camille Morerod</b>	<b>Purabi Deshpande</b>	<b>Wendt Müller</b>	<b>Patrick Bergeron</b>
	Red vision in terrestrial habitats: seeing red is of limited use without spectral filters	Non-lethal fungal infection reduces aggression towards strangers in ants	Fear of the new? Geckos hesitate to attack novel prey, forage near objects and enter a novel space	Sex ratio and the evolution of aggression in fruit flies	The effects of coral surface roughness on coral reef fish locomotion	Native fauna interact differently with native and alien trees in a tropical megacity	Consistent individual migration strategies in times of change	The feast and the famine: Spring body mass variations and life-history traits in a pulse resource ecosystem
<b>16:50-17:05</b>	<b>Marie-Christin Hardenbicker</b>	<b>Franziska Andrea Brenninger</b>	<b>Reyes Salas</b>	<b>David Shuker</b>	<b>Emily Baird</b>	<b>Mario B. Pesendorfer</b>	<b>Kristaps Sokolovskis</b>	<b>Mia Lybkær Kronborg Nielsen</b>
	The role of natural image statistics in the evolution of courtship signals	Does double mean trouble? – Parasitic manipulation of reproduction and dispersal	The ontogeny of behavioural phenotypes in a colonial breeding species: early social life shapes offspring's phenotype.	Endurance rivalry: what is it, and how common is it?	Short-term exposure to heatwave-like temperatures affects learning and memory in bumblebees	What makes a hoarder? The ecology and evolution of food hoarding in birds	Migratory Behaviour and what we know of its genetic basis in Willow Warblers	Kinship dynamics and the evolution of menopause in mammal-eating killer whales
<b>17:10-17:25</b>	<b>Elizabeth Phillips</b>	<b>Valeria Arabesky</b>	<b>Natasha Gillies</b>	<b>Masaru Hasegawa</b>	<b>Lorenzo Galletta</b>	<b>Marion Chatelain</b>	<b>Zephyr Züst</b>	<b>Mirjam Borger</b>
	UV Vision in an Invasive Aquatic Predator, the Lionfish ( <i>Pterios volitans</i> )	Get out of my web! – widow spider egg sac guarding behaviors against the parasitoid wasp <i>Philolema latroducti</i>	Personality blows: boldness predicts foraging responses in response to wind in wandering albatrosses	Cute males are tolerated by neighboring rivals in the barn swallow	Avian incubation in the heat: heatwaves, parental behaviour, and their influence on the eggs	Food in the city: urban-driven diet shift in great tits and blue tits	Hidden Movements of Long-Distance Migrants: Pre-Migratory Flights in the Northern Wheatear	Putting life history theory to the test - the estimation of reproductive values from field data
<b>17:30-17:45</b>	<b>Nigel Anderson</b>	<b>Tony Rinaud</b>	<b>Isabel Damas-Moreira</b>	<b>Matthew Kustra</b>	<b>Manfred Milinski</b>	<b>Alexandre Barraud</b>	<b>Sinchan Ghosh</b>	<b>Abhishek Meena</b>
	Testosterone makes agonistic displays more threatening by exploiting receiver perceptual bias	Unraveling early-life consequences of blood parasite infections on hosts in a wild raptor-Leucocytozoon system	An invasive lizard with a strong temperament	Temporal dynamics of sneak spawning in a fish with multiple alternative reproductive tactics.	Decisions to migrate to a rich country upon simulated climate events – a behavioral experiment	Impact of pesticides on the feeding behaviour of bumblebees	Investigating the evolutionary trend in migratory passageway and the reproduction of <i>Merops philippinus</i>	Sex-specific life-history strategies in <i>Drosophila prolongata</i>

# Speaker Timetable

## Day 2 – Saturday 30 July – Morning Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Sexual selection	Acoustic communication	Parental care	Animal personality	Cognition	Behavioural genetics/genomics	Movement	Host-parasite interactions
<b>Session Chair</b>								
<b>10:40-10:55</b>	<b>Ingo Schlupp</b>	<b>Soniya Devi Yambem</b>	<b>Franz J. Weissing</b>	<b>Paolo Panizzon</b>	<b>Esha Haldar</b>	<b>Margarida Barcelo-Serra</b>	<b>Mina Ogino</b>	<b>Václav Jelínek</b>
	Mating preferences and the hybrid origin of an asexual fish, the Amazon molly	Decoding the babbling of Jungle Babblers: a study on vocal repertoire	The joint evolution of parental effort and the primary sex ratio	Effect of the environment on the development of laterality and personality in the Three-spined Sticklebacks	Action-level-imitation of arbitrary motor behaviours in Ara macaws	Towards the genetic basis of marine fish chronotypes	Group-level specialisation in space uses within a multilevel society	Fast and furious: host aggression modulates behaviour of brood parasites
<b>11:00-11:15</b>	<b>Cristina Tuní</b>	<b>Taina Conrad</b>	<b>Claire J Taylor</b>	<b>Gábor Herczeg</b>	<b>Naama Aljadeff</b>	<b>Alexander Kirschel</b>	<b>Pratik Rajan Gupta</b>	<b>Mary L. Westwood</b>
	Silk-borne chemicals of spider nuptial gifts elicit female gift acceptance	The important role of parental acoustic signaling during brood care in the burying beetle <i>Nicrophorus vespilloides</i>	Mothers breeding in groups are better able to buffer their young against extreme temperatures	Are behavioural type and behavioural predictability linked? A meta-analysis.	Task-dependent reversal learning dynamics challenge the reversal paradigm of measuring cognitive flexibility	Leveraging ancestry to investigate the genomics of bird song	Novel pathogen introduction rapidly alters the evolution of movement, restructuring animal societies	Circadian shifts in singing in a parasitised population of crickets suggest temporal escape from infection
<b>11:20-11:35</b>	<b>Magdalena Matzke</b>	<b>Simon Grendeus</b>	<b>Andreas Meitl</b>	<b>Jack Thorley</b>	<b>Harry F. Suter</b>	<b>Sifiso M. Lukhele</b>	<b>Gabriel Munar-Delgado</b>	<b>Michal Segoli</b>
	Effects of pre-mating and post-mating selection on reproductive trait evolution in field crickets	American alligators recognize their names independent of caller – speech normalization in a crocodilian	Rethinking evolutionary relationships – Novel insights into the development of mating behaviour in birds	Does personality mediate the reproductive consequences of broad climate phenomena?	The influence of within-group and out-group interactions on cognitive performance	Investigating a carotenoid-based plumage colour polymorphism in <i>Pogonius tinkerbirds</i>	Adaptive population divergence and reproductive isolation in a sympatric setting due to Matching Habitat Choice	Nest provisioning with parasitized caterpillars by female potter wasps: Costs and potential mechanisms
<b>11:40-11:55</b>	<b>Nathan Burke</b>	<b>Stephen A. Tyndel</b>	<b>Alexandra Childs</b>	<b>David Westneat</b>	<b>Claudia Zeiräg</b>	<b>Richard Merrill</b>	<b>Anat Levi</b>	<b>P. Andreas Svensson</b>
	Male coercion and female injury in a sexually cannibalistic mantis	Social mechanisms behind group-level vocal signatures in an open-ended vocal learner	My mum is better than yours: Mothering tactics in Galápagos sea lions and their effect on pup behaviour and personality	The integration of personality and plasticity: A test of alternatives	A look through the eyes of a dinosaur - Gaze following in archosaurs as a window to social cognition of dinosaurs	Adaptive introgression of visual preference alleles in tropical butterflies	Homing through ecological barriers of the Balkan pond turtle in a wetland ecosystem	Is my manipulation good enough? Cestode-infected fish appear generally fearless.
<b>12:00-12:15</b>	<b>Daisuke Kyogoku</b>	<b>Hugo Loning</b>	<b>Georgia Lambert</b>	<b>Lauren Harrison</b>	<b>Masanori Kohda</b>	<b>Tina Barbasch</b>	<b>Matthias Loretto</b>	<b>Lucinda Aulsebrook</b>
	Sexual selection favoured higher offspring production via evolution of both male and female traits	Singing by zebra finches in the wild: soft, social and non-competitive	Resource access buffers against effects of current reproduction on future ability to provide care in a burying beetle	A meta-analysis of sex differences in animal personality: no evidence for the greater male variability hypothesis	Fish recognize self in a mirror via self-face recognition not kinesthetic visual-matching	Mechanisms underlying the conflict between courtship and aggression in threespined sticklebacks	Do ravens follow large carnivores?	The impacts of pharmaceutical pollutants on host-parasite dynamics
<b>12:20-12:35</b>	<b>Stefan Lüpold</b>	<b>Lukas Schad</b>	<b>Johana Goyes Vallejos</b>	<b>Marion Dellinger</b>	<b>Kento Kawasaki</b>	<b>Beniamino Tuliozi</b>	<b>Romain Dejeante</b>	<b>Tiago G. Zeferino</b>
	Disentangling the context-dependent dynamics in pre- and postcopulatory sexual selection in <i>Drosophila</i> <i>prolongata</i>	Alarm barks of male vervet monkeys as vocal displays of male quality	Effect of female removal on offspring survival in a glass frog	'Same same but different': Eco-Evo-Devo patterns of personality compared between two sympatric morphs of Arctic charr	Facial components in cichlid fish: Study of first-order relations information	Genetic correlation of direct and indirect components of social dominance with morphology and fitness traits	Females and cubs matter: a spatial perspective of the importance of social interactions for male lions	Anopheles mosquitoes self-medicate to fight infections: consequences for life history traits and oxidative stress

# Speaker Timetable

## Day 2 – Saturday 30 July – Afternoon Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Conservation and behaviour	Collective behaviour	Behavioural plasticity	Tool use and innovation	Dispersal	Reproductive Behaviour	Reproductive tactics, strategies and morphs	Physiology and behaviour
Session Chair								
14:10-14:25	<b>Michael Weiss</b>	<b>Damien Farine</b>	<b>Karem Lopez-Hervas</b>	<b>Berenika Mioduszezka</b>	<b>Svea-Sophie Zimmermann</b>	<b>Nikolaos Smit</b>	<b>Kora Klein</b>	<b>Amelia Munson</b>
	Using association networks as a behavioural indicator in killer whale conservation	Collective decision-making in vertebrate groups 'on the move'	Wild mice behavioral plasticity as an adaptive mechanism to changes in food quality	Treasure islands: Foraging ecology and the emergence of tool use in wild Goffin's cockatoos	High activity in the nest is associated with increased exploration and early emigration in juvenile Golden eagles	Sexual intimidation and female social bonds in wild mandrills	a search for frequency-dependence: modelling a female-limited polymorphism in attractiveness	Effects of changing temperatures on social behaviour via effects to metabolism in the common minnow ( <i>Phoxinus phoxinus</i> )
14:30-14:45	<b>Ron Efrat</b>	<b>Clare Doherty</b>	<b>Samyuktha Rajan</b>	<b>Mark O'Hara</b>	<b>Arianna Passarotto</b>	<b>Ségolène Delaitre</b>	<b>Peter Schausberger</b>	<b>Arisa Hosokawa</b>
	Both early life and task-specific experience affect migratory proficiencies in Egyptian vultures ( <i>Neophron percnopterus</i> )	Experimentally-seeded social information: impacts on individual and collective behaviour in the wild	Social and genetic determinants of song variation in pied flycatchers	The use of a tool set by wild Goffin's cockatoos	Dear partner or dear territory? Causes and fitness consequences of breeding dispersal in a territorial bird of prey	Olfactory detection of plant volatiles influences behavioral and reproductive decisions of a passerine bird.	Transgenerational plasticity of alternative reproductive tactics in spider mites	Effects of ageing on slime mould behaviour and physiology
14:50-15:05	<b>Ellis Langley</b>	<b>Gloriana Chaverri</b>	<b>Rosie J Lennon</b>	<b>Barbara C Klump</b>	<b>Julia Hatzl</b>	<b>Sophie Bennett</b>	<b>Xiang-Yi Li Richter</b>	<b>Hanja Brandl</b>
	A new assay for breeding pair compatibility of a tool using bird that is extinct in the wild	Acoustic communication for group coordination on the wing	Behavioural changes detected in free-living birds for up to three weeks following an immune challenge	Bin-opening and bin-protection: Innovation in a human-wildlife conflict	Food intake drives skill development and carries over to affect timing of emigration in a large raptor species	Drivers and fitness consequences of the occupancy of breeding sites in the non-breeding season in a colonial seabird	Coevolution of female fidelity and male help in populations with alternative reproductive tactics	The consequences of stress and stress transmission in social groups of birds
15:10-15:25	<b>Daniel Blumstein</b>	<b>Elizabeth Murphy</b>	<b>Alexandra Cones</b>	<b>Ivo Jacobs</b>	<b>Steve Whalan</b>	<b>Federica Dal Pesco</b>	<b>Maria Albo</b>	<b>Jennifer Grindstaff</b>
	The rules of attraction: the necessary role of animal cognition in explaining conservation failures and successes	Kinematics, hydrodynamics, and energetics of swimming in a school	Multidimensional phenotypic plasticity: hierarchical sources of variance in the reaction norms of avian embryos	Pyrocognitive ravens use tools to retrieve food near novel objects and fire	The habitat of sponges is underpinned by directed behavioural choices of motile larval stages to light.	MALE-MALE SOCIAL BONDING, COALITIONAL SUPPORT AND REPRODUCTIVE SUCCESS IN WILD GUINEA BABOONS	Deceptive worthless nuptial gifts can become the dominant mating tactic in spider populations	Impact of early life stressors on behavior and stress resilience in adulthood

# Speaker Timetable

## Day 2 – Saturday 30 July – Evening Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Life histories	Cooperation	Conservation and behaviour	Sexual selection	Social behaviour	Method development for studying behaviour	Predator-prey interactions	Foraging
<b>Session Chair</b>								
<b>16:10-16:25</b>	<b>Yael Lubin</b>	<b>Anna Dewar</b>	<b>Grace Nolan</b>	<b>Sophia Fitzgerald</b>	<b>Annemarie van der Marel</b>	<b>Camille N. M. Bordes</b>	<b>Karin Kjærnsmo</b>	<b>Brian Trevelline</b>
	Sib-mating enhances fitness in a haplodiploid beetle	Does horizontal gene transfer stabilize cooperation in bacteria?	Natural history films generate more online interest in depicted species than in conservation messages	Female Japanese rhinoceros beetles may evaluate male short-term body condition via newly described courtship display	Experimental perturbations alter social dominance patterns in monk parakeets	What are the odds? Using animal triads to assess dyadic social bonds.	Cepaea snail camouflage in the eyes of their predators	The gut microbiome influences host diet selection behavior
<b>16:30-16:45</b>	<b>David López-Idiáquez</b>	<b>Rebecca Branconi</b>	<b>Leon Green</b>	<b>Trond Amundsen</b>	<b>Ben Hatchwell</b>	<b>Matthew Silk</b>	<b>Sandra Winters</b>	<b>Svenja Stoehr</b>
	Sex-dependent integration of personality, colouration, and morphology	Ecological constraints influence cooperation and conflict in the humbug damselfish <i>Dascyllus aruanus</i>	Understanding the local adaptation and spread of an invader through reproductive traits	Climate-driven dynamics of operational sex ratio, sexual selection and life history	Bad decisions in social birds: Is adaptive choice of social partners constrained by discrimination ability?	Demographic models of social networks	Hiding snails: using machine learning to understand optimal camouflage	Picky eaters: Stability of individual foraging strategies and resulting fitness consequences in Galápagos sea lions
<b>16:50-17:05</b>	<b>Anja Guenther</b>	<b>Theresa Rueger</b>	<b>Annabel Dorrestein</b>	<b>Viktor Kovalov</b>	<b>Shannon Luepold</b>	<b>TRINA ROY</b>	<b>Alexander Kotrschal</b>	<b>Max Ringler</b>
	Does a change in food quality induce an adaptation in a pace-of-life syndrome within three generations?	Cooperation and conflict in anemonefish societies	Social structure across the roost sites of a Critically Endangered small-island endemic: The Christmas Island flying-fox	Cheap female choice and costly male display - coevolution on leks	Habitat detection, habitat assessment, or mating benefits: what drives conspecific attraction in a nomadic songbird?	A new tool to study social and behavioral plasticity of cooperative breeding birds	Cognition contra camouflage: how the brain mediates predator-driven crypsis evolution	Compost Dwellers: Strategic feeding and use of indirect cues in actively foraging poison frogs
<b>17:10-17:25</b>	<b>Mats Ittonen</b>	<b>Peter Buston</b>	<b>Yael Lehnardt</b>	<b>Maria Santacà</b>	<b>James Brooks</b>	<b>Juliano Morimoto</b>	<b>Charlotte Perrault</b>	<b>Myriam Knöpfle</b>
	Recurrent local adaptation to seasonal cues at the fronts of two independent, climate-induced butterfly range expansions	Ecological and social constraints combine to promote evolution of non-breeding strategies in clownfish	Nowhere to hide: mapping the impact of traffic noise on animal behavior outside urban areas and in protected habitats	Disentangling olfactory and visual cues and the role of compatibility during mate choice in the zebrafish, <i>Danio rerio</i> .	Perceived outgroup threat elicits ingroup cohesion in chimpanzees	Holey niche! A novel method to find holes in niche hypervolumes using persistence homology	Active use of camouflage and behavioral responses to biotic stressors in tawny owls ( <i>Strix aluco</i> )	Tactile stimulation as a behavioural mechanism to increase access to prey in a marine producer-scrounger system
<b>17:30-17:45</b>	<b>Sara Calhim</b>	<b>Ming Liu</b>	<b>Toby Champneys</b>	<b>Anyelet Valencia Aguilar</b>	<b>Tom Ratz</b>	<b>Jordan Martin</b>	<b>Min Tan</b>	<b>Antoine Gekière</b>
	Male and sperm anhydrobiosis recoveries are not concurrent in tardigrades	Manipulative cheating and the persistence of cheaters in social organisms	Does competition with invasive Nile tilapia threaten native fish species in Tanzania?	Does parental care influence testes sizes in glassfrog species?	The rival widows: how prey availability affects responses to competition from conspecifics in a black widow spider	Nonlinear selection on behavioral reaction norms: Theory, methods, and applications to humans and house sparrows	Revealing the effect of movement on background matching using jumping spiders as predators	Specialized Metabolites in Floral Resources: Effects and Detection in Buff-Tailed Bumblebees

# Speaker Timetable

## Day 3 – Sunday 31 July – Morning Session

Session	Auditorium A1 Social behaviour	Room C1 Pollution and behaviour	Room C2 Animal personality	Room C3 Cognition	Room C4 Sexual selection	Room 24/25 Communication	Room 27 Contests and competition	Room 35/36 Predator-prey interactions
<b>Session Chair</b>								
<b>10:40-10:55</b>	<b>Miya Warrington</b> Lovers, not fighters: Docility influences fitness in male Cape ground squirrels ( <i>Xerus inauris</i> )	<b>Jake Martin</b> Context is Key: Social Environment Mediates the Impacts of a Psychoactive Pollutant on Shoaling Behavior in Fish	<b>Gergely Horváth</b> Links between short-term environmental differences, individual state and behavioural variation in Carpetan rock lizards	<b>Claudia Fichtel</b> On the link between cognition and fitness in wild gray mouse lemurs, <i>Microcebus murinus</i>	<b>David M Zonana</b> Courting death or reproductive success? The relative fitness of rapidly evolving Pacific field cricket morphs	<b>Md Kawsar Khan</b> Costs and benefits of ontogenetic colour change	<b>Jonathan Green</b> Reproductive costs of female-female competition in a harem-breeding cichlid	<b>David Kikuchi</b> Socially transmitted innovations in dynamic predator-prey systems
<b>11:00-11:15</b>	<b>Delphine De Moor</b> Unravelling the evolution of social relationships: a comparative approach across macaque species	<b>Erin McCallum</b> Chemicals and hierarchies: Social status affects competition and stress physiology in fish groups exposed to a pollutant	<b>Melanie Dammhahn</b> Thoroughness pays off?!	<b>Niclas Kolm</b> Some cognitive benefits from evolving a larger telencephalon in the guppy ( <i>Poecilia reticulata</i> )	<b>Hannah Ogden</b> How do sex-ratio and environmental complexity modulate sexual selection and sexual conflict?	<b>Nora Carlson</b> Anti-predator communication networks in mixed-species flocks: who listens and who doesn't?	<b>Zegni Triki</b> Oxytocin has 'Tend-and-Defend' Functionality in Group Conflict Across Social Vertebrates	<b>Sam J. England</b> The electric ecology of predator-prey interactions: electroreception in caterpillars
<b>11:20-11:35</b>	<b>Dominique Treschnak</b> Auditory monitoring of female Guinea baboon by their males	<b>Zuzanna Jagiello</b> The extended avian urban phenotype: impact of anthropogenic debris pollution on nest design and fitness	<b>Niels Dingemans</b> Most published estimates of selection on labile traits are mis-estimated: why this is and how to fix it	<b>Rie Henriksen</b> Proportional Cerebellum Size Predicts Fear Habituation in Chickens	<b>Ally Harari</b> Males' impact on the evolution of monandrous mating strategy in a moth	<b>Marc Gilles</b> Olfactory camouflage and communication in birds	<b>Wei Zhou</b> Proportional mutual assessment of weaponized chelicerae in male contests of the jumping spider <i>Myrmarachne maxillosa</i>	<b>Jolle Jolles</b> Both Prey and Predator Features Predict Predation Risk and Survival of Schooling Prey
<b>11:40-11:55</b>	<b>Zitan Song</b> Evolution of social organization: phylogenetic analyses of ecology and sexual selection in weavers	<b>Rochelle J. Meah</b> The impacts of light pollution on the timing and successful orientation of navigating, nocturnal arthropods	<b>Rosanne Beukeboom</b> The correlation of lab and semi-natural personality estimates and its influence on movement and survival of Arctic charr	<b>László Zsolt Garamszegi</b> Evolution of relative brain size after domestication and subsequent selective breeding for function in the dog	<b>Kavita Isvaran</b> Sexual selection in the anthropocene	<b>Dominic Wright</b> Genetic Basis of Structural Iridescence in Chicken Feathers	<b>Olof Leimar</b> Sex differences in reproductive skew and fighting costs in social dominance evolution	<b>Alice Auersperg</b> Predator neophobia in Goffin's cockatoos
<b>12:00-12:15</b>	<b>Erin Siracusa</b> Within-individual changes reveal increasing social selectivity with age in rhesus macaques	<b>Juho Jolkkonen</b> Artificial light enhances nocturnal escape behaviour of foraging waders	<b>Bawan Amin</b> Juvenile personality in free-ranging fallow deer: Is bold better?	<b>Michael Griesser</b> Parental provisioning drives brain size in birds	<b>Maria-Cristina Lorenzi</b> Is the cost of reproduction higher for males or females? Evidence from hermaphrodites (two sexes in the same body)	<b>Ambre Salis</b> Greats tits respond to mobbing calls of an unfamiliar species sharing similar syntax	<b>Sasha Dall</b> Learning under competition, the evolution of preferences and the development of behavioural specialisation	<b>Josefin Sundin</b> Males show their best side revisited – effects of predation pressure on laterality in wild guppies
<b>12:20-12:35</b>	<b>Eleonore Lebeuf-Taylor</b> Predation of adults drives the evolution of plural breeding: a comparative case study of Nearctic jay populations	<b>Nikolas Willmott</b> Poisoning the web: behavioural and other fitness effects of pollutants on a nocturnal orb-web spider	<b>Alastair Wilson</b> Is divergence really adaptive? A comparative view of behavior and personality differences across guppy populations	<b>Jasmine Hardie</b> Social and ecological factors predict variation in brain size across birds	<b>Lennart Winkler</b> Impact of population density on sexual selection in the red flour beetle	<b>Yiftach Golov</b> The effect of bio-physical conditions on the navigation performance of a nocturnal moth	<b>Javier Abalos</b> Melanin patches and dynamic visual signals influence dominance, space use and reproductive success in male wall lizards	<b>Pedro Leote</b> Effects of competition on intra-guild predation and biological control at a fine temporal scale

# Speaker Timetable

## Day 4 – Monday 1 August – Morning Session

Session	Auditorium A1 Cognition	Room C1 Method development for studying behaviour	Room C2 Acoustic communication	Room C3 Social behaviour	Room C4 Sexual selection	Room 24/25 Anthropogenic effects on behaviour	Room 27 Aposematism and mimicry	Room 35/36 Speciation and hybridization
<b>Session Chair</b>								
<b>10:40-10:55</b>	<b>Theo Robert</b> Cue position in 3D space biases selective attention in the praying mantis, <i>Sphodromantis lineola</i>	<b>Markus Conrad</b> A new approach to maximize outbreeding and minimize inbreeding depression in animal populations reared in the lab	<b>Jan Jedlikowski</b> Dear-enemy effect between two sympatric bird species	<b>Marko Glogoški</b> Sociability in dominant and subdominant sympatric lizard species	<b>Alessandro Devigili</b> Intra-ejaculate sperm selection via female reproductive fluid in the zebrafish	<b>Beatriz Diaz Pauli</b> Fishing size-selection indirectly also selects on behaviour	<b>Daiqin Li</b> Empirical demonstration of the dead-leaf and bird-dropping masquerade	<b>Catarina Vila Pouca</b> Can hybridization promote phenotypic variation in cognition and brain morphology?
<b>11:00-11:15</b>	<b>Camilla Soravia</b> Older females show lower general cognitive performance but higher breeding output in a cooperative breeder	<b>André C. Ferreira</b> Individual identification of wild birds in open populations using deep learning	<b>Mylene Mariette</b> How prenatal sound programs avian development: changes in mitochondrial function and food intake	<b>Alberto Corral-Lopez</b> Sociality and cognition: behavioural and genomic analyses in guppies artificially selected for higher coordinated motion	<b>Emily Rebecca Alison Cramer</b> The shape of selection on sperm: the role of promiscuity and among-female variation	<b>Jack A. Brand</b> Biological invasions as a selective filter driving behavioural divergence	<b>James Barnett</b> Size-dependent aposematism and camouflage in a potential Müllerian mimic	<b>Liran Sagi</b> Isolation by time in a terrestrial vertebrate: potential mechanism for sympatric speciation
<b>11:20-11:35</b>	<b>Shuge Wang</b> Fast generalisation at the beginning of life: the effect of predispositions and experience	<b>Holly M English</b> Insights into behavioural ecology through biologging: a case study on canids	<b>Alex Jiang</b> Silence is golden? Unwanted attention to small-sized koalas when vocalising	<b>Tamao Maeda</b> Drone observation and social network analyses reveal a multilevel society of feral horses	<b>Alexandra Glavaschi</b> Predictors of insemination success through forced matings in male guppies <i>Poecilia reticulata</i>	<b>Mayuko Nomoto</b> How do forest elephants use human habitat area?: focusing on their trails	<b>Karen Cheney</b> Aposematic colour signals and chemical defences in nudibranch molluscs	<b>Rimon Levin</b> Color, song and size; the white-throated kingfisher ( <i>Halcyon smyrnensis</i> ) subspecies complex, a glance to speciation.
<b>11:40-11:55</b>	<b>Olga Procenko</b> State-dependent Judgement Biases in Bees in an Active Choice Task	<b>Nicolas J. Silva</b> Deep learning methods to automate data collection of morphological and behavioural traits through pictures and videos	<b>James Gallagher</b> From one voice to many: Illuminating the mechanisms underlying rapid sexual signal diversification	<b>Josefine Bohr Brask</b> Linking social preferences to social network structure and function	<b>Livia Pinzoni</b> Post-mating female control: an indirect mechanism of directional choice in a fish with external fertilization	<b>Fernando Mateos-González</b> Effects of COVID-19 on the behaviour of anglers, seen through the anonymous data from a sonar device	<b>Johanna Mappes</b> Predator selection on phenotypic variability of cryptic and aposematic moths	<b>Fanny-Linn Kraft</b> Species Recognition and Song Memory in Nestling Flycatchers
<b>12:00-12:15</b>	<b>Maëlle Lefeuve</b> Birds of a feather sing together: how variable temperature conditions affect zebra finches song learning	<b>Cynthia Tedore</b> Recent advances in visualizing and quantifying the colorful (or not so colorful) world through animal eyes	<b>Małgorzata Niškiewicz</b> Interspecific territoriality and species vocal recognition in African Turtur doves	<b>Deryk Tolman</b> Hosts do not tune their defences against cuckoos according to quantity of social information or host density	<b>Melissah Rowe</b> Avian reproductive microbiomes and local ejaculate immune function	<b>Oded Berger-Tal</b> Environmental variability as a predictor of behavioral flexibility in urban environments	<b>Georgina Binns</b> What's Amata with this moth? Aposematic variation in a diurnal lepidopteran	<b>Robert Curry</b> Effects of hybridization on chickadee spatial memory: a field test incorporating social network context in wild birds
<b>12:20-12:35</b>	<b>Victor Ajuwon</b> Exploring non-instrumental information-seeking in goldfish	<b>Liliana R. Silva</b> Using deep learning for automatic video analyses in wild birds	<b>Anastasia Krasheninnikova</b> Phylogenetic map of vocal learning in parrots	<b>Renata Mazzei</b> Social flexibility in Caribbean Elacatinus gobies	<b>Takeshi Ito</b> Paired comparisons of eleven species with different fertilization modes reveal the evolution of sperm in marine fishes	<b>Krishna Balasubramaniam</b> Anthropogenic factors and social interactions affect zoonotic outbreak risk among (peri)urban wildlife populations	<b>Innes Cuthill</b> Host plants as extended phenotypes of aposematic insects	<b>Carolyn Sommer-Trembo</b> Exploring the role of behaviour in one of the largest adaptive radiations: an integrative approach



# Speaker Timetable

## Day 4 – Monday 1 August – Afternoon Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Noise pollution and behaviour	Migration	Reproductive behaviour	Social Behaviour	Brood parasitism	Cost of reproduction	Life histories	Transgenerational effects
<b>Session Chair</b>	<b>Léna De Framond</b>	<b>Ying-Chi (Ginny) Chan</b>	<b>Alejandro Cantarero</b>	<b>T Revathe</b>	<b>Jeremy Field</b>	<b>Matthias Tschumi</b>	<b>Fernando Campos</b>	<b>Juliette Tariel</b>
<b>14:10-14:25</b>	Long-term effects of noise pollution on the avian dawn chorus: a natural experiment facilitated by an airport closure	Ontogeny of migration in a partially migratory raptor	Wild common crossbills produce redder feathers when experimentally forced to increase flying effort	Possible roles of allomaternal care in the Kabini Asian elephant population, southern India	Cuckoos that care: conspecific brood parasitism in subsocial wasps	Reduced habitat quality increases intrinsic but not ecological costs of reproduction	A consistent pattern of female reproductive aging revealed in the interbirth intervals of seven primate species	Transgenerational induction of anti-predator behaviour does not depend on the timing of predator perception
<b>14:30-14:45</b>	<b>Riin Viigipuu</b> Great tits alter incubation behaviour in noisy environments	<b>Arne Hegemann</b> Immune function as a physiological mechanism underlying migratory decisions	<b>Frigg Speelman</b> Causes of mate fidelity and divorce in the Seychelles warbler	<b>Sonam Chorol</b> Eavesdropping on social calls in congeneric Babbler species	<b>Teresa Abaurrea</b> Common cuckoo females are opportunistic in their selection of individual Common redstarts	<b>Lucy Winder</b> The optimal clutch size revisited: separating the effects of individual quality from the costs of reproduction	<b>Mats Olsson</b> Inbreeding effects on telomeres in hatchling sand lizards ( <i>Lacerta agilis</i> )	<b>Jennifer Hellmann</b> Vertical transmission of horizontally-acquired information in stickleback: Implications for transgenerational plasticity
<b>14:50-15:05</b>	<b>Eva-Lotta Blom</b> Continuous and intermittent noise has a negative impact on reproductive success and early life survival in marine fish	<b>Hester Brønnevik</b> Experience does not change the importance of wind support for migratory route selection by a soaring bird	<b>Michelle Beyer</b> Directional information in a spider silk trail	<b>Krista J. Shofstall</b> Variation of alloparental care in Cape ground squirrels ( <i>Xerus inauris</i> ) and who benefits.	<b>Michal Šulc</b> Nest sanitation as an effective defence against brood parasitism	<b>Samuel Ellis</b> Insights into the evolution of menopause from a comparative study of cetaceans	<b>Kenyon Mobley</b> The effect of the maturation gene <i>vgl13</i> on multiple spawning and reproductive fitness in wild Atlantic salmon	<b>Scott Sakaluk</b> Transgenerational effects of experimentally increased maternal corticosterone in a wild bird population
<b>15:10-15:25</b>	<b>Mario Gallego-Abenza</b> Traffic noise and male-male competition separately influence antipredator responses in male field crickets	<b>Jennifer Morinay</b> Carry-over effects of movement decisions: when seasonal migration affects breeding dispersal	<b>Justine Chartrain</b> Semi-chemical-based mate searching behaviour in tardigrades: comparing the sexes	<b>Kristina Beck</b> Experimentally testing the effect of local population density on social structure and patch discovery in great tits	<b>Katja Rönkä</b> Can we move beyond “genes-for-behaviour”? The potential for genomics to resolve questions in avian brood parasitism	<b>Magali Meniri</b> Untangling the oxidative cost of reproduction: an analysis in wild banded mongooses	<b>Samantha Patrick</b> Differences in the temporal scale of reproductive investment across the slow-fast continuum in a passerine	<b>Diogo Antunes</b> Parents know best: transgenerational effects of early social experiences in a cooperatively breeding fish

# Speaker Timetable

## Day 4 – Monday 1 August – Evening Session

	Auditorium A1	Room C1	Room C2	Room C3	Room C4	Room 24/25	Room 27	Room 35/36
Session	Mate choice	Sensory ecology	Foraging	Habitat degradation and behaviour	Cooperative breeding	Pollution and behaviour	Physiology and behaviour	Predator-prey interactions
Session Chair								
<b>16:10-16:25</b>	<b>Pietro Pollo</b>	<b>Frane Babarovic</b>	<b>Brett Seymoure</b>	<b>Weihong Ji</b>	<b>Océane La Loggia</b>	<b>Natalia Sandoval Herrera</b>	<b>Timothy Salzman</b>	<b>Costanza Zanghi</b>
	The better, the choosier: a meta-analysis on interindividual variation of male mate choice	Mosaic effect of ecological and behavioural traits on the evolution of colouration in the clade Coraciiformes	Untangling the effects of time and light on wolf spider foraging efficiency	Contribution of burrowing mammals to grassland degradation --- a population or a behavioural effect?	The influence of social exposure in early and later development on social competence in a cooperatively breeding fish.	Spatial navigation in bats is affected by low doses of neurotoxic insecticide	Individual differences in metabolic plasticity across an activity gradient in house sparrows	How turbidity and temperature change affect predator-prey interaction in an acara-guppy system
<b>16:30-16:45</b>	<b>Ellen Pasternack</b>	<b>Nathan Morehouse</b>	<b>Anders Brodin</b>	<b>Angelique Dupuch</b>	<b>Pietro D'Amelio</b>	<b>Maryse Vanderplanck</b>	<b>Fabien Demares</b>	<b>Piotr Matyjasiak</b>
	Mrs Coolidge: Do females prefer mating with novel males?	Male Color and Motion Collaborate to Capture and Retain Female Gaze During Courtship in Habronattus Jumping Spiders	Why do hoarding parids remember their caching locations?	Invasion of alien slugs in disturbed habitats: role of behavioural phenotype, plasticity, and interspecific competition	Recording individual vocalizations in small cooperative birds using on-board microphones: challenges and successes	Impact of ozone on the behavior of pollinators	Oxidative stress generated by ozone pollution affects honey bee physiology, olfaction and memory.	Anthropogenic noise interacts with the predation risk assessment in a free-ranging bird
<b>16:50-17:05</b>	<b>Sabine Noebel</b>	<b>Christopher Cooney</b>	<b>Mauricio Cantor</b>	<b>Lisa Boström Einarsson</b>	<b>Chris Duncan</b>	<b>Hung Tan</b>	<b>Juli Broggi</b>	<b>Alice Exnerova</b>
	Images of copulating conspecifics elicit mate copying in fruit flies	Latitudinal gradients in avian colourfulness	The mechanisms and conservation of a rare human-animal foraging cooperation	Angry fishes - linking altered behaviour in butterflyfishes to community changes following habitat loss	The drivers of dominance loss in male and female meerkats, a cooperatively breeding mongoose	Potent agricultural contaminant alters relationships between pre- and post-copulatory sexual traits in male mosquitofish	Physiological consequences of short-term individual variation in the cost of living	Prey categorization by avian predators
<b>17:10-17:25</b>	<b>Sonia Tiew</b>	<b>Jolyon Troscianko</b>	<b>Allegra DePasquale</b>	<b>Olivia Spagnuolo</b>	<b>Nikola Dragić</b>	<b>Jack Orford</b>	<b>Doreen Cabrera</b>	<b>Callum McLellan</b>
	Modeling beauty face perception & Influence of this perception on Mandrill's socio-sexual behaviour	A model of colour appearance based on efficient coding of natural images	When and why would a frugivore eat plant pith? Pith selection by wild capuchin monkeys (Cebus imitator)	Effects of livestock grazing intensity on space use by large carnivores in the Masai Mara National Reserve, Kenya	Multilayer social networks reveal the dimensions of Arabian babblers' sociality	The impacts of a widespread agricultural pollutant on foraging and antipredator behaviour in the spotted marsh frog	The interaction between physiology and behavior in determining life history strategy in the northern crayfish	Convergent evolution of gregarious behaviour in butterfly larvae is mediated by effects of colour pattern
<b>17:30-17:45</b>	<b>Danita Daniel</b>	<b>Chun-Chia Chou</b>	<b>Orr Spiegel</b>	<b>Sam Hillman</b>		<b>Chayan Munshi</b>	<b>Rebecca Nagel</b>	<b>Yuhan He</b>
	A Bold Choice: Personality, Cognition and Mating Preference in Wild Zebrafish	Size does not matter as long as it shines: female fiddler crabs prefer UV-reflective chelae, regardless of UV patch area	Resource manipulation reveals interactive phenotype-dependent foraging in free-ranging lizards	How resource distribution, not just availability, changes space-use, movement, and contact networks in wild wood mice		Arsenic contamination can induce autism spectrum disorder in prawns: consideration of repetitive grooming behaviour	Density and food availability impact behavior and physiology wild Antarctic fur seals	The integration of multiple antipredator defences in a rotifer: a low-cost insurance?

# Speaker Timetable

## Day 5– Tuesday 2 August – Morning Session

Session	Auditorium A1 Climate change and behaviour	Room C1 Sexual Selection	Room C2 Sensory ecology	Room C3 Cognition	Room C4 Group living	Room 24/25 Parental care	Room 27 Contests and competition	Room 35/36 Cooperative breeding
<b>Session Chair</b>								
<b>10:40-10:55</b>	<b>Merel C. Breedveld</b> Reproducing during heatwaves: the effects of extreme heat on reproductive success, behaviour, and offspring fitness	<b>Jukka Kekäläinen</b> Female-mediated selective sperm activation may remodel odour-based mate choice decisions in humans	<b>Rebecca Boulton</b> Sensory plasticity in a socially plastic bee	<b>Shumpei Sogawa</b> Three spined sticklebacks can discriminate others through true individual recognition (TIR) by their face	<b>Anne Sabol</b> Sociality and the oral microbiome in prairie voles	<b>Sandra Steiger</b> Evolutionary change in the benefits of parental care	<b>Daniel Sankey</b> Landscape of war: banded mongooses make context-dependent movement decisions in the face of intergroup conflict	<b>Irene García Ruiz</b> The evolution of cooperative breeding by direct and indirect fitness effects
<b>11:00-11:15</b>	<b>Maxence Gérard</b> Exposure to elevated temperature during development affects plant-pollinator interactions	<b>Rachael A. DiSciullo</b> What makes a song signal sex or strife? Synthesized songs can tell us which song components matter to free-living birds	<b>Tane Kafle</b> Temperature preference shifts in ecologically diverse flies	<b>Olli Loukola</b> Bumblebees learn to cooperate in a foraging task	<b>Hajime Sato</b> Relationship between group behavior and cleaner fish mimicry in the false cleanerfish <i>Aspidontus taeniatus</i>	<b>Sigal Balshine</b> Accessory gland evolution in fishes	<b>Andrés Quiñones</b> Learning can mediate the evolution of (cheap and costly) signals of quality	<b>Rita Covas</b> Infanticide in a highly cooperative bird
<b>11:20-11:35</b>	<b>Craig Perl</b> Heatwave-like events during development are sufficient to impair bumblebee worker responses to sensory stimuli	<b>Magdalena Herdegen-Radwan</b> Can females learn to like male colours? A test of the role of associative learning in originating sexual preferences.	<b>Laurie Mitchell</b> Higher ultraviolet skin reflectance as a submissive signal in the anemonefish, <i>Amphiprion akindynos</i>	<b>Enrico Sorato</b> Reversal learning ability predicts post-release movement behaviour in captive-bred North African houbara bustards	<b>Adriana Maldonado-Chaparro</b> Sociality Outside the Breeding Context: Revealing the Patterns of Pair-Bond Formation in a Monogamous Species	<b>Antoine Grissot</b> Consistency of parental coordination and its link to pair characteristics in an arctic Seabird	<b>Josh Arbon</b> Stable dyadic dominance relationships do not necessarily lead to population-level hierarchies	<b>Amy Leedale</b> Kin recognition for incest avoidance in a cooperative mammal
<b>11:40-11:55</b>	<b>Camille Testard</b> Fitness consequences of increasing sociality after a natural disaster in rhesus macaques	<b>Jacek Radwan</b> What do orange spots reveal about male (and female) guppies? A test using correlated responses to selection	<b>Benito Wainwright</b> Visual adaptations to divergent and convergent microhabitats in a mimetic butterfly community	<b>Krista van den Heuvel</b> Realized heritability and repeatability of reversal learning performance in great tits ( <i>Parus major</i> )	<b>Melissa A. Pavez Fox</b> Sociality is linked to survival via reduced injury risk in a group-living primate	<b>Curtis Creighton</b> The Effect of Resource Quality on Partner Compensation in a Bi-parental Species	<b>Eva Wikberg</b> Causes and consequences of intergroup aggression in colobus monkeys ( <i>Colobus vellerosus</i> )	<b>Laurence Cousseau</b> Habitat fragmentation shapes natal dispersal and sociality in the placid greenbul, an Afrotropical cooperative breeder
<b>12:00-12:15</b>	<b>Krista Oswald</b> Behaviour of a mountain range-restricted species is described by interactions between microsite use and temperature	<b>Bernadette Johnson</b> The Evolution of the Testis Transcriptome in Pregnant Male Pipefishes and Seahorses	<b>Olivia Harris</b> Exploitation of anti-predator behavior in the courtship displays of <i>Maratus</i> jumping spiders	<b>Johanna Henke-von der Malsburg</b> Memory retention varies independently of sex-specific activity levels in wild grey mouse lemurs	<b>Aneesh Bose</b> It's dangerous to go outside: Reproductive skew, dispersal, and group-living under strong ecological constraints	<b>Grant C. McDonald</b> Remating opportunities and low desertion costs underlie family fragmentation	<b>Tobit Dehnen</b> Strategic dominance interactions in vulturine guineafowl	<b>Louis Bliard</b> Predation risk is positively associated with the prevalence of family living and cooperative breeding in birds
<b>12:20-12:35</b>	<b>Elena Zwirner</b> Human pro-social tendencies in volcanic environments	<b>Aivars Čirulis</b> Effects of sex-limited experimental evolution on a hermaphrodite mating behavior	<b>Amanda Melin</b> Anatomy and dietary specialization influence sensory behaviour among sympatric frugivorous primates	<b>Javier Oñate-Casado</b> An experience to remember: lifelong effects of playback-based capture on the behaviour of Tawny pipits	<b>Peter Kappeler</b> Fitness consequences of group size variation in a lemur	<b>Jacqueline Sahn</b> Brood size and family constellations affect parental care decisions and offspring performance in burying beetles	<b>Kingsley Hunt</b> Leaders of war: modelling the evolution of conflict among heterogeneous groups	<b>Rita Fortuna</b> Predator playbacks affect maternal egg allocation regardless of group size in a cooperatively breeding bird

# Poster Sessions

## Poster Session 1 – Saturday 30 July

Poster Number	Presenter	Title
<b>Human Behaviour</b>		
1	Pragya Poddar	Assessment of mental stress in young females
<b>Contests and competition</b>		
3	Amir Haluts	A unifying model of animal contests based on effective interaction forces
5	Nikolas Papanikolas	Interactions among Curruca warblers breeding in Cyprus
7	Agata Staniewicz	Competition for acoustic space in birds – do similarly singing species avoid spatial and temporal overlapping?
<b>Altruism and cooperation</b>		
10	Chunhui Hao	Genes on plasmids are less connected, including genes for cooperation
<b>Social behaviour</b>		
12	Isaac Ligocki	Joint Predation Activity in Lake Tanganyikan Fishes
14	Shasta E. Webb	Group size and ecological factors influence behavioural synchrony in white-faced capuchin monkeys ( <i>Cebus imitator</i> )
16	Marie-Eve Labonté-Dupras	Environmental effects on social selection in Tree swallows ( <i>Tachycineta bicolor</i> )
18	Ena Onishi	Contagious urination among captive chimpanzees: Investigation of initiator and follower
19	Sruthi Unnikrishnan	Conserved hormonal and molecular mechanisms underlying behavioural maturation in open- and cavity-nesting honey bees
<b>Sensory ecology</b>		
21	Julia Balogh	Habitat effects on the sugar perception of honeybees
23	Tammy Ho	Effects of proportional processing on preference strength in female mate choice in an ant-mimic jumping spider
<b>Sexual selection, reproductive tactics and mating systems</b>		
25	Elisa Morbiato	First come, first served pattern of mate precedence increases fertilization probability in a harsh environment
27	Ayumi Mizuno	Food-mimicking ornamental traits in Estrildid finches
29	Johanna Yliportimo	Fine-grained spatial variation in mating success and sexual selection in a sand goby population
31	Katharine M. Jack	Female counterstrategies to infanticide in <i>Cebus imitator</i> : Evaluating the Bruce effect, early weaning, and allonursing
33	Stefania D'Arpa	Experimentally impaired female condition does not affect biliverdin-based egg colour
35	Charel Reuland	Does male dominance affect female mate choice? An experimental examination in a livebearing fish
37	Aravind Sridharan	Dance or disappear: Strategic sexual signalling in female Peninsular rock agama
39	William Ashworth	Contrasting the importance of the visible and ultra-violet spectrum during mate choice in a livebearing fish
41	Hope Klug	Cascading effects of pre-adult survival on sexual selection
43	Diego Gil	Biased estimates of sexual selection when floaters are not taken into account
45	Carly Hawkins	Elucidating the complexities of social monogamy and alternative mating tactics in songbirds
47	Ana Caroline Oliveira Vasconcelos	Defence chemicals inherited by offspring of a stick-insect
<b>Cognition and neurophysiological mechanisms</b>		
49	Mathilde Eriksen	The role of acoustic stimuli on match-to-sample in the African grey parrot ( <i>Psittacus erithacus</i> )
51	Elisabeth Suwandschieff	Imitative and nonimitative social learning in kea ( <i>Nestor notabilis</i> ) in a two-action task
53	Bella Beizerman	Can sparrows learn to like the parts and dislike the whole?
55	Joanna T. Bialas	Head volume, brain size and cognitive abilities – is there any link between them?
57	Vanessa Penna Goncalves	Does the social brain hypothesis apply to Huntsman spiders?
59	Gabriella Smith	Contrafreeloading in differentially playful species: Greys ( <i>Psittacus erithacus</i> ) and kea parrots ( <i>Nestor notabilis</i> )
61	Noa Truskanov	Configural learning by cleaner fish in a complex biological market task
63	Utku Urhan	Cognitive and behavioural determinants of innovativeness
65	Ernesto Restrepo	Methods for comparative studies of insect brains and their link to behavioral ecology
<b>Communication</b>		
66	Romain Lefèvre	Universal emotional translators: a machine learning adventure to explore acoustic correlates of emotions in animals
68	Miriam Kuspief	The social context of alarm calls: Function and specificity of alarm calling in Eurasian magpies
70	Ayano Kitaguchi	Behavioral diversity associated with food availability in four species pairs of the goby-shrimp relationship
72	Sylvia Pustkowiak	Biodiversity as the heterospecific social information: the effect on territory selection and vocal mimicry in birds
<b>Movement, migration and dispersal</b>		
75	Emmanuel Lourie	Elucidating the drivers of spatial partitioning between neighboring fruit bat colonies
77	Hannah De Waele	Artificial selection for predation survival shapes collective motion in guppies ( <i>Poecilia reticulata</i> )
79	Gaya Sherf	Examining the symbiotic magnetic sensing hypothesis using Emlen funnels, induced magnetic fields and antibiotics
81	Gergely Horváth	Divergence in exploratory behaviour between surface and cave-adapted populations in <i>Asellus aquaticus</i>
83	Hester Brønsvik	Do better flyers disperse earlier?
85	Tovale Solomon	Comparing factors affecting individual predictability and intraspecific repeatability in movement across avian species
87	Mélina Cointe	Bridging behaviour and spatial propagation in minute insects: the double-spiral method and image analysis pipeline
88	Joe Morford	A non-invasive methodology for investigating olfactory navigation in a pelagic seabird, the Manx shearwater
<b>Foraging</b>		
89	Rasmus Mohr Mortensen	Aquatic habitat use in a semi-aquatic mammal
92	Jens Jung	Activity patterns of black-backed jackals ( <i>Canis mesomelas schmidtii</i> ) – impact of weather and moon phase
<b>Behavioural plasticity and animal personality</b>		
96	Susan Marsh-Rollo	Exploring cognitive flexibility in the context of alternative reproductive tactics in a wild living fish
98	Corné De Groot	Ecology and evolution of social impact and responsiveness in a wild sparrow population
100	Adrianna Muszyńska	Does geographically determined daylight length affect daily and seasonal vocal activity of the Common chaffinch?
102	Flavia Berlinghieri	Do stickleback parents influence the development of personality and brain laterality in their offspring?
104	Elena Zwirner	Cognitive adaptations to ecological shocks in small rodents
106	Marjolein Meijdam	Early bird or late night owl? Individual variation in great tit chronotypes
107	Diego Stingo Hirmas	Habituation and Predictability in chickens: Intra-individual variation across time, contexts and situations.
108	Filippa Erixon	Boldness, aggressiveness, stress response, and dominance rank correlations in bank voles ( <i>Myodes glareolus</i> )
109	Tomislav Gajak	Behaviour of coexisting lizard species, <i>Podarcis siculus</i> and <i>Podarcis melisellensis</i> , in a novel environment
<b>Life histories</b>		
110	Fay Morland	Demographic patterns of fertility and embryo mortality in a population of a threatened bird, the hihi
<b>Anthropogenic effects on behaviour, climate change, conservation and welfare</b>		
117	Jessica Campbell	Fine-scale habitat use and feeding behaviour of juvenile snapper ( <i>Chrysophrys auratus</i> )
119	Benedikte Austad	Evaluating removal methods of the invasive Brook trout and effects of removal on the ecosystem
121	Topi Lehtonen	Why are glow-worm females particularly vulnerable to urbanisation?
123	Christina Hansen Wheat	The unfulfilled potential of dogs in studying behavioural evolution during the Anthropocene
125	Audrey Turcotte	Risk-taking behaviours are associated with human disturbance in painted turtles

127	<i>Kalpesh Jas</i>	Prawn behaviour: A reliable marker for evaluating abiotic stress in aquatic environment
129	<i>Katie Smith</i>	Nest-site fidelity in Greater sage-grouse ( <i>Centrocercus urophasianus</i> )
131	<i>Davide Bottacini</i>	Long-term effects of culling on the behaviour of invasive lionfish ( <i>Pterois miles</i> ) in the Mediterranean
133	<i>SeyyedSajjad Vakili Shahrababaki</i>	Incubation behaviour of Common Goldeneye under endocrine-disrupting chemicals and climate change pressure
135	<i>Gabrielle Welsh</i>	Human-generated noise impacts cricket behavior more than life history traits and reproductive investment
137	<i>Michael Bertram</i>	Frontiers in quantifying wildlife behavioural responses to chemical pollution
138	<i>Michael Bertram</i>	EthoCRED: A framework to guide evaluation of the reliability and relevance of behavioural ecotoxicity studies
<b>Plant-animal and host-parasite interactions</b>		
140	<i>Manuel Morales</i>	Ideal-free distribution in host choice by an ant-protected treehopper
141	<i>Hiroto Yoshimura</i>	Fecal DNA metabarcoding analysis of wild snow leopard ( <i>Panthera uncia</i> ) focusing on dietary plant species.
142	<i>Andrew Ryan</i>	Effects of <i>Toxoplasma gondii</i> infection on fallow deer ( <i>Dama dama</i> ) willingness to engage with humans.
143	<i>Megan Henriquez</i>	Examining population dynamics of parasites to assess costs of sociality in a wild mammal
145	<i>Zoé Delefortrie</i>	Effects of haemosporidians on reproductive strategies in a polymorphic species
146	<i>Alfred Daniel Johnson</i>	Development and superparasitism of the wasp <i>Philotema latrodicti</i> in a native and an invasive widow spider egg sac
<b>Parental care</b>		
147	<i>Anaïs Avilés De Diego</i>	Infant post-mortem caretaking behaviours and cannibalism in Guinea baboons
149	<i>Marina Garrido-Priego</i>	Caring is sexy: female mate choice in <i>Hyalinobatrachium valerioi</i>
151	<i>Jia Zheng</i>	A novel function of egg burial: burying material prevents eggs falling out of wind-swayed nests
<b>Predator-prey interactions</b>		
157	<i>Tushema Dutta</i>	Factors affecting seasonal variation in escape behavior of birds along an urban-rural gradient
159	<i>Kai-Philipp Gladow</i>	How the return of the Eurasian Eagle Owl as an intraguild predator changes the dynamics in a raptor community in Germany
161	<i>Yuha Hasegawa</i>	Escaping via the predator's gill: A defensive tactic of juvenile eels after capture by predatory fish

## Poster Session 2 – Monday 1 August

Poster Number	Presenter	Title
<b>Human Behaviour</b>		
2	<i>Aida Nitsch</i>	Sibling competition, dispersal and fitness outcomes in humans
<b>Contests and competition</b>		
4	<i>Patricia Beltrão</i>	Bullying and show-off: how common waxbills manage their social dominance hierarchy
6	<i>Kacharat Phromkhunathon</i>	A force competition of predator on urban ecosystem
<b>Altruism and cooperation</b>		
8	<i>Madlen A. Prang</i>	The nature of offspring interactions in a genus with interspecific variation in offspring dependence on parental care
9	<i>Madingley M. Abbs</i>	The evolutionary ecology of sibling cannibalism in seed bugs
11	<i>Yuya Kobayashi</i>	Provision of food to host sea anemones by anemonefish: Its true nature and effect on the host
<b>Social behaviour</b>		
13	<i>Caroline Driscoll</i>	Cost hinders helping behavior in rats
15	<i>Francesca Santostefano</i>	Social selection in virtual ecosystems
17	<i>Arnon Lotem</i>	Social demonstration of color preference improves social learning of demonstrated actions
<b>Aposematism and mimicry</b>		
20	<i>Emily Burdfield-Steel</i>	Signalling in the city – the effects of urbanisation on aposematism
<b>Sensory ecology</b>		
22	<i>Vun Wen Jie</i>	Polarization vision in bumblebee species, do differences in morphology reflect differences in behavioural ecology?
24	<i>Zahra Moradinour</i>	Sensory organ investment varies with body size and sex in the temperate butterfly <i>Pieris napi</i>
<b>Sexual selection, reproductive tactics and mating systems</b>		
26	<i>Erwan Harscouet</i>	Weaverbirds (Ploceidae) nests: a sexually selected extended phenotype?
28	<i>Yuting Dong</i>	Ritualised courtship and male-male competition in the false widow spider ( <i>Steatoda grossa</i> )
30	<i>Erika Fernlund Isaksson</i>	Resource-dependent cryptic female choice in a live bearing fish
32	<i>Gianni Rasnick</i>	Pre-mating pool resource competition and sexual selection
34	<i>Louise M. Alissa</i>	Good body condition increases male attractiveness but not caring quality in a Neotropical arachnid with male-only care
36	<i>Laure A. Olivier</i>	What influences who breeds? A review and prospectus on reproductive skew theory
38	<i>Mohammed Aamir Sadiq</i>	To call or not to call: Mating benefits of Flexible Alternative Reproductive Tactics in a tree cricket
40	<i>Jon Richardson</i>	Playing the laying game: adjustment of egg laying by both hosts and intraspecific brood parasites
42	<i>Lenka Sentenská</i>	Risky business: Males choose more receptive adults over safer subadults in a cannibalistic spider
44	<i>Zsófia Tóth</i>	The relationship between mating systems and spermatozoa characteristics in shorebirds
46	<i>Yuki Kondo</i>	Prudent sperm allocation in an externally fertilizing fish, Japanese medaka ( <i>Oryzias latipes</i> )
<b>Cognition and neurophysiological mechanisms</b>		
48	<i>ChuChu Lu</i>	What do Zebra finches learn besides singing? Systematic review of the literature and presentation of a new test
50	<i>Yusuke Iwata</i>	Yawn contagion in a social cichlid fish, <i>Neolamprologus pulcher</i>
52	<i>Camille Troisi</i>	Measuring response inhibition using an ecologically valid task in two gull species
54	<i>Thomas Rejsenhus Jensen</i>	The selfish preen: Absence of allopreening in Palaeognathae and its socio-cognitive implications
56	<i>Erő Vincze</i>	Urbanization's effects on problem solving abilities: a meta-analysis
58	<i>Jeroen Zewald</i>	Sensorimotor and motor self-regulation development in flexible tool using Goffin's cockatoos ( <i>Cacatua goffiniana</i> )
60	<i>Arnon Lotem</i>	Modelling cleaner fish behavior suggests a role for ecologically tuned chunking in the evolution of advanced cognition
62	<i>Zohar Hagbi</i>	Keeping a level head: How rodents from different habitats travel on inclined surfaces?
<b>Communication</b>		
67	<i>Yui Matsumoto</i>	Large Japanese field mice produce multiple types of ultrasonic vocalizations
69	<i>Ola Svensson</i>	Sand goby females do not spawn with silent males, but do males sing out their condition and can female hear the song in a noisy environment?
71	<i>Isabel Driscoll</i>	Emotion encoding in meerkat vocalisations
73	<i>Jakub Szymkowiak</i>	Eavesdropping on conspecific alarm calls across territory borders: wild birds form population-wide information webs
74	<i>Moric Tószeghi</i>	Do caring males call differently in a glass frog species with male parental care?
<b>Movement, migration and dispersal</b>		
76	<i>Madeleine Berry</i>	Migratory patterns and productivity potential of juvenile sea trout.
78	<i>Rebecca Chen</i>	Sex-specific fine-scale population structure and effects of hunting on the genetic diversity of Finnish black grouse
80	<i>Claus Rueffler</i>	Reproductive interference and the evolution of host plant selection in closely related phytophagous insects
82	<i>Paris Jagers</i>	Individual variation in foraging behaviour in Manx shearwaters ( <i>Puffinus puffinus</i> )
84	<i>James Klarevas-Irby</i>	Limitations to the energetic efficiency of movement in group-living animals
86	<i>Hanna Kavli Lodberg-Holm</i>	Individual variation and spatio-temporal trends in terrestrial habitat selection of Eurasian beavers
<b>Foraging</b>		

90	<i>Molly Gilmour</i>	Tri-trophic interactions in foraging behaviour: the effects of predation risk, population density, and seed traits
91	<i>Julie Jarvey</i>	Spatial ecology of spotted hyena ( <i>Crocuta crocuta</i> ) foraging across changing ecological conditions
93	<i>Thi Hanh Nguyen</i>	Parental and early-life experiences shape individual foraging specialization and personalities of predatory mites
94	<i>Mélibée Morel</i>	Foraging specialisation in a changing world - a multi-year study in adult Lesser black-backed gulls
95	<i>Mattie Purinton</i>	Foraging ecology and conservation of African white-backed vultures
<b>Behavioural plasticity and animal personality</b>		
97	<i>Aurelia F. T. Strauß</i>	Variation in Behavioural and Physiological Chronotypes and their Fitness Consequences in Great Tits
99	<i>Clíodhna Hynes</i>	Sexual differences in giraffe habitat selection in the Namib desert
101	<i>Catherine Čapkun-Huot</i>	On the Evolutionary Importance of Habituation: a Case Study on Eastern Chipmunks
103	<i>Allison McLaughlin</i>	House sparrows exhibit individual differences in generalization when confronted with different novel stimuli
105	<i>Martina Martorell-Barceló</i>	Personality and Behavioral Syndromes in Pearly Razorfish
<b>Life histories</b>		
111	<i>Carly Lynsdale</i>	The metabolic switch? Linking individual physiology and life-history in the Glanville fritillary
112	<i>Graziella Iossa</i>	The ecological function of micropyles in insect eggs
113	<i>David Gómez Blanco</i>	Short early-life telomere length and lack of malaria infection predicts telomere elongation in wild great reed warblers
114	<i>Irene Gaona-Gordillo</i>	Phenotypic integration between morphology and behavior at different hierarchical levels
115	<i>Veronika Rau</i>	Re-molding of dietary effects on the fecundity/longevity trade-off in a termite species
116	<i>Ye Xiong</i>	Heritability of early life telomere length (eTL) in zebra finch
<b>Anthropogenic effects on behaviour, climate change, conservation and welfare</b>		
118	<i>Astrid Anette Carlsen</i>	Foraging efficiency in diving predators based on prey availability
120	<i>Miho Saito</i>	Housing with male triggers higher aggressive behaviors in female giraffe
122	<i>Sabrina Schalz</i>	Eavesdropping on Speech in Crows
124	<i>Christian Olesen</i>	Effects of changing sea surface salinity in the Wadden Sea and Baltic Sea on the distribution of <i>Pomatoschistus microps</i>
125	<i>Marcus Michelangeli</i>	Drugs in schools: does Prozac disrupt the collective behaviour of fish?
126	<i>Jane Faull</i>	Does begging behaviour predict a fearless nature in the selection of fawning bedsites in fallow deer?
128	<i>Chancey MacDonald</i>	Depth gradients influence disturbance and feeding behaviours in corallivore fishes following a warm-water anomaly
130	<i>Mihieka Bose</i>	Colouration in semi-transparent prawn: a perplexing strategy of camouflage
132	<i>Kaori Mizuno</i>	Camera trap position changes response behaviour of forest duikers
134	<i>Jacqueline Bikker</i>	Caffeine's effects on complex behaviour in fathead minnow ( <i>Pimephales promelas</i> )
136	<i>Eleanor Diamant</i>	Before, during and after the "anthropause": the impact of human activity on individual fear response in an urban bird
139	<i>Paula Antonina Bednarz</i>	Influence of traffic noise on small mammals
<b>Parental care</b>		
148	<i>Francesca Nicole Angiolani-Larrea</i>	This is my space: site fidelity in a glassfrog without parental care
150	<i>Jessie E.C. Adriaense</i>	Proximate mechanisms underlying action coordination during infant transfers in a cooperatively breeding primate
151	<i>Fionnuala McCully</i>	Personality and parental investment: the impact of pair members' boldness on trip duration patterns in a long-lived seabird
152	<i>Taya de Blonk</i>	Links between life history, mate preferences, and the loss and gain of parental care
153	<i>Isimeme Naomi Udu</i>	Life history and the evolutionary loss of parental care
154	<i>Maximilian Körner</i>	Investigating immunity in an insect with collective antimicrobial defenses: can mothers buffer costs of pathogens?
155	<i>Casey Patmore</i>	Interspecific competition promotes biparental cooperation in the burying beetle <i>Nicrophorus vespilloides</i>
156	<i>Lena Zywucki</i>	Infanticide in burying beetles is not just a matter of resource availability
<b>Predator-prey interactions</b>		
158	<i>Ioan Smart</i>	Testing camouflage in virtual reality environments
160	<i>Brandon Quinby</i>	Spatial risk modelling of cattle depredation by black vultures in the midwestern United States
162	<i>Monica Mowery</i>	Invasive brown widow spiders avoid egg sac parasitism and predation despite high densities
<b>Omics and behaviour</b>		
163	<i>Takahisa Ueno</i>	The ecological functioning of behavioral variation on wild <i>Drosophila</i>

# ISBE+ Virtual Presentations

Presenter	Title
<i>Jodie Gruber</i>	Male survivorship and the evolution of eusociality in partially bivoltine sweat bees
<i>Carter Jordan</i>	Nest competition and sexual selection in the sand goby: what happens when losers become winners?
<i>Christian Rutz</i>	The STRANGE framework for improving experimental designs, reporting standards and reproducibility
<i>Sarah NILA</i>	How do Indonesian people help strangers?
<i>James Hare</i>	Hug the One You're With: Domestic dogs are aroused but not stressed by human hugging
<i>Debbie Saunders</i>	Advanced drone radio-tracking technology improves mortality signal detection in wildlife movement and survival studies
<i>Apostolos Angelakakis</i>	The mating behavior and fitness consequences of polyandry in the common house spider <i>Parasteatoda tepidariorum</i>
<i>Lucy Farrow</i>	The impact of brain morphology on behavioural flexibility in the Noisy Miner ( <i>Manorina melancephala</i> ) bird
<i>Tatiana Demidova</i>	Aggressive males are melanistic and active but they are not fast learners in African killifish <i>Nothobranchius guentheri</i>
<i>Buddhamas Pralle Kriengwatana</i>	Early life stress does not affect HPA activity of reproductive partners
<i>Victoria Rostovtseva</i>	Understanding cooperativeness in humans
<i>Rachael Miller (Harrison)</i>	ManyBirds: a multi-site Open Science approach to avian cognition and behaviour research
<i>Ilapreet Toor</i>	Hormones do not make the mole-rat: no steroid hormone signatures of subordinate behavioural phenotypes
<i>Jason Keagy</i>	Testing the Parental Brain Hypothesis in Three-Spined Stickleback Fish
<i>Jessica Hadlow</i>	Temporal effects of egg-derived chemicals on sperm motility and velocity-longevity trade-offs
<i>Aarini Ghosh</i>	Sympatric call divergence in morphologically similar Palearctic Tettigoniidae (genus <i>Mecopoda</i> ) from India
<i>Kevin Neumann</i>	Social networks and implications for reproductive isolation in stickleback ecotypes
<i>Erhao Ge</i>	Religious celibacy brings inclusive fitness benefits
<i>Blake Wyber</i>	Reduced habitat complexity improves female productivity in the seed beetle <i>Callosobruchus maculatus</i>
<i>Jennifer A. Fortunato</i>	Plasticity of the competition-ready phenotype: effects of embryonic social environment
<i>Lova Schildt</i>	Ontogenetic shifts in swimming performance in the rainbow wrasse <i>Coris julis</i>
<i>Emmanuelle Briolat</i>	Moths in the spotlight: how artificial lights affect the visual ecology of nocturnal Lepidoptera
<i>Rowan McGinley</i>	Light environment interacts with visual displays in a species-specific manner in multimodal signaling wolf spiders
<i>Daniel Parejo-Pulido</i>	Immune challenge modulates nestling begging behavior in the spotless starling
<i>Sydney M. Collins</i>	Foraging paths of breeding Leach's Storm-Petrels in relation to offshore oil platforms, breeding stage, and year
<i>Athira T K</i>	Genetic relatedness and associations among adult male Asian elephants
<i>Ofri Eitan</i>	Functional daylight echolocation in highly visual bats
<i>Anahi Castillo Angon</i>	Foraging heuristics in the wild: are brushtail possums affected by phantom decoys?
<i>Ruth Fishman</i>	Favoring genetic diversity over 'good genes': Multiple paternity and fetal testosterone
<i>NEETIKA AHLAWAT</i>	<i>Drosophila melanogaster</i> hosts coevolving with <i>Pseudomonas entomophila</i> pathogen show sex-specific local adaptation
<i>Natalie Pilakouta</i>	Effects of temperature changes on mating behaviour and mating success: a meta-analysis
<i>Beatriz C. Saldanha</i>	Effects of dietary tryptophan supplementation in the collective behaviour of a highly social bird
<i>Jesus Martínez-Padilla</i>	Density-dependent selection on local and immigrant birds drives the evolutionary dynamics of sexual ornaments
<i>Susana Cortés Manzaneque</i>	Developmental plasticity to predation risk and environmental matching
<i>Brittany A. Coppinger</i>	Conspecific and Heterospecific Effects on Calling Complexity in Carolina Chickadees ( <i>Parus carolinensis</i> )
<i>Ornela De Gasperin</i>	Cryptic mutation load in a supergene controlling social organisation in ants
<i>Patrick Kennedy</i>	Brinkmanship in the evolution of altruism
<i>Sarah Walsh</i>	Complex combinatoriality in the non-song vocalizations of Western Australian magpies ( <i>Gymnorhina tibicen dorsalis</i> )
<i>Adam Cronin</i>	Asymmetric influence of group composition on emigration performance in an ant
<i>Maki Morooka</i>	Adaptive shifts in an invasive species, <i>Anolis carolinensis</i> in the Ogasawara Islands in Japan
<i>Rebecca (Beki) Hooper</i>	Pair-bond strength is repeatable and related to partner responsiveness in a wild corvid
<i>Luis Nahmad-Rohen</i>	Polarisation Sensitivity in <i>Octopus</i>
<i>Courtney Pike</i>	Warbler Finches are not able to compensate for nest parasitism by the Avian Vampire Fly with increased feeding rates
<i>Ha Nguyen</i>	The influence of social context on personal immunity

# Delegate List

## Delegates attending ISBE 2022 in-person

**Javier Abalos**, Lund University, University of Valencia  
**Teresa Abaurrea**, University of Helsinki  
**Madingley Abbs**, University of St Andrews  
**Jessie Adriaense**, University of Zürich  
**Malin Ah-King**, Stockholm University  
**Ingrid Ahnesjö**, Uppsala University  
**Upama Aich**, Australian National University  
**Victor Ajuwon**, University of Oxford  
**Maria J Albo**, Facultad de Ciencias, UdelaR  
**Naama Aljadeff**, Tel Aviv University  
**Suzanne Alonzo**, University of California Santa Cruz  
**Mirjam Amcoff**, Stockholm University  
**Bawan Amin**, University College Dublin  
**Nigel Anderson**, Brown University  
**Francesca Angiolani-Larrea**, University of Bern  
**Sophia Anner**, University of Louisville  
**Nicholas Antonson**, University of Illinois at Urbana-Champaign  
**Diogo Antunes**, University of Bern  
**Valeria Arabesky**, Ben-Gurion University of the Negev  
**Josh Arbon**, University of Exeter  
**Aneta Arct**, Institute of Systematics and Evolution of Animals Polish Academy of Sciences  
**Luisa Arnedo**, National Geographic Society  
**William Ashworth**, Stockholm University  
**Alice Auersperg**, University of Veterinary Medicine Vienna  
**Lucinda Aulsebrook**, Monash University  
**Benedikte Austad**, University of Gothenburg  
**Anais Avilés De Diego**, German Primate Center  
**Satoshi Awata**, Osaka Metropolitan University  
**Frane Babarovic**, University of Sheffield  
**Fiona Backhouse**, Western Sydney University  
**Emily Baird**, Stockholm University  
**Krishna Balasubramaniam**, Anglia Ruskin University  
**Julia Balogh**, Goethe University Frankfurt  
**Sigal Balshine**, McMaster University  
**Tina Barbasch**, University of Illinois Urbana-Champaign  
**Garance Barbier**, Umeå University  
**Margarida Barceló Serra**, Mediterranean Institute for Advanced Studies  
**James Barnett**, McMaster University  
**Alexandre Barraud**, University of Mons  
**Eleanor Bath**, University of Oxford  
**Kristina Beck**, University of Oxford  
**Paula Antonina Bednarz**, Adam Mickiewicz University  
**Bella Beizerman**, Tel Aviv University  
**Patrícia Beltrão**, CIBIO – Research Centre in Biodiversity and Genetic  
**Yitzchak Ben Mocha**, Haifa University  
**Sophie Bennett**, UK Centre for Ecology & Hydrology  
**Hanna Bensch**, Linnaeus University  
**Oded Berger-Tal**, Ben-Gurion University of the Negev  
**Patrick Bergeron**, Bishop's University  
**Flavia Berlinghieri**, University of Groningen and Macquarie University  
**Madeleine Berry**, University of Gothenburg  
**Michael Bertram**, Swedish University of Agricultural Sciences  
**Rosanne Beukeboom**, Holar University  
**Michelle Beyer**, LMU Munich  
**Cammy Beyts**, The University of Edinburgh  
**Joanna Bialas**, Poznan University of Life Sciences  
**Jacqueline Bikker**, McMaster University  
**Georgina Binns**, Macquarie University  
**Louis Bliard**, University of Zurich  
**Eva-Lotta Blom**, Swedish University of Agricultural Sciences  
**Daniel Blumstein**, UCLA  
**Thibault Boehly**, Lund University  
**Camille Bordes**, Bar Ilan University  
**Mirjam Borger**, GELIFES, University of Groningen  
**Aneesh Bose**, Swedish University of Agricultural Sciences  
**Mihieka Bose**, Visva Bharati University  
**Lisa Boström-Einarsson**, Lancaster University  
**Davide Bottacini**, Wageningen University  
**Rebecca Boulton**, University of Stirling/Wageningen University & Research  
**Amos Bouskila**, Ben-Gurion Univ.  
**Rebecca Branconi**, Boston University  
**Jack Brand**, Monash University  
**Hanja Brandl**, University of Konstanz  
**Josefine Brask**, Technical University of Denmark  
**Merel C. Breedveld**, University of Padua  
**Franziska Andrea Brenninger**, University of Zurich  
**Dale Broder**, University of Denver  
**Anders Brodin**, Lund University  
**Juli Broggi**, Museo Nacional de Ciencias Naturales, CSIC  
**Hester Bronnvik**, Max Planck Institute of Animal Behavior  
**James Brooks**, Kyoto University  
**Henrik Brumm**, Max Planck Institute for Ornithology  
**Dianne Brunton**, Massey University  
**Redouan Bshary**, University of Neuchâtel  
**Emily Burdfield-Steel**, University of Amsterdam  
**Nathan Burke**, University of Hamburg  
**Peter Buston**, Boston University  
**Violeta Caballero Lopez**, Lund University  
**Doreen Cabrera**, Brigham Young University  
**Vincent Calcagno**, INRAE  
**Sara Calhim**, University of Jyväskylä  
**Ettore Camerlenghi**, Monash University  
**Sharon Camm**, Wildlife Acoustics  
**Jess Campbell**, University of Auckland  
**Ulrika Candolin**, University of Helsinki  
**Alejandro Cantarero**, University Complutense of Madrid  
**Mauricio Cantor**, Oregon State University  
**Catherine Čapkun-Huot**, Université du Québec à Montréal  
**Astrid Anette Carlsen**, Swedish University of Agricultural Science  
**Nora Carlson**, Kyoto University  
**Shana Caro**, University of Texas at Austin  
**Benedetta Catitti**, Swiss Ornithological Institute  
**Toby Champneys**, University of Bristol  
**Ying-Chi (ginny) Chan**, Swiss Ornithological Institute  
**Justine Chartrain**, University of Jyväskylä



**Marion Chatelain**, University of Innsbruck  
**Gloriana Chaverri**, Universidad de Costa Rica  
**Rebecca Chen**, Bielefeld University  
**Karen Cheney**, The University of Queensland  
**Alexandra Childs**, University of Bielefeld  
**Sonam Chorol**, Indian Institute of Science Education and Research Mohali  
**Chun-Chia Chou**, National Museum of Natural Science  
**Pizza Ka Yee Chow**, University of Chester, University of Oulu, Hokkaido University  
**Aivars Cirulis**, Lund University  
**Andrew Cockburn**, Australian National University  
**Melina Cointe**, INRAE  
**Jennifer Colbourne**, University of Veterinary Medicine Vienna  
**Alexandra Cones**, University of Kentucky  
**Taina Conrad**, University of Bayreuth  
**Markus Conrad**, University of Bayreuth  
**Chris Cooney**, University of Sheffield  
**Alberto Corral Lopez**, University of British Columbia  
**Laurence Cousseau**, Ghent University  
**Rita Covas**, CIBIO, University of Porto  
**Emily Cramer**, University of Oslo Natural History Museum  
**Curtis Creighton**, Purdue University Northwest  
**Thomas Crouchet**, EDB lab, Toulouse University - CNRS  
**Eniko Csata**, Regensburg University  
**Robert Curry**, Villanova University  
**Innes Cuthill**, University of Bristol  
**Pietro Bruno D'amelio**, CNRS - CEFE  
**Stefania D'arpa**, MNCN  
**Federica Dal Pesco**, German Primate Center  
**Sasha Dall**, University of Exeter  
**Isabel Damas-Moreira**, Bielefeld University  
**Melanie Dammhahn**, University of Muenster  
**Danita Daniel**, Indian Institute of Science Education and Research Kolkata  
**Isla Keesje Davidson**, University of Bristol  
**Taya De Blonk**, University of Tennessee at Chattanooga  
**Léna De Framond**, Max Planck Institute for Ornithology  
**Corné De Groot**, Ludwig Maximilian University - Munich  
**Delphine De Moor**, University of Exeter  
**Louise Alissa De Morais**, University of California, Santa Cruz  
**Hannah De Waele**, Wageningen University and Research  
**Tobit Dehnen**, University of Exeter  
**Romain Dejeante**, CEFE-CNRS  
**Sékolène Delaitre**, CEFE CNRS  
**Axelle Delaunay**, University of Montpellier - ISEM  
**Zoé Delefortrie**, Indiana State University  
**Marion Dellinger**, Holar University  
**Fabien Démares**, CEFE CNRS  
**Allegra Depasquale**, University of Calgary  
**Dagmar Der Weduwen**, University of St Andrews  
**Purabi Deshpande**, University of Helsinki  
**Alessandro Devigili**, University of Padova  
**Marion Devogel**, University of Gdansk  
**Anna Dewar**, University of Oxford  
**Eleanor Diamant**, University of California Los Angeles (UCLA)  
**Beatriz Diaz Pauli**, Dep. Biological Sciences, University of Bergen  
**Niels Dingemans**, Ludwig Maximilian University of Munich  
**Rachael Disciullo**, Illinois State University  
**Clare Doherty**, Dartmouth College  
**Yuting Dong**, NIOO-KNAW  
**Annabel Dorrestein**, Western Sydney university  
**Claire Doutrelant**, CNRS - CEFE  
**Nikola Dragić**, Bar Ilan University  
**Ana Drago**, University of St Andrews  
**Isabel Driscoll**, University of Zurich  
**Caroline Driscoll-Braden**, University of Louisville  
**Chris Duncan**, University of Cambridge  
**Angelique Dupuch**, Université du Québec en Outaouais (UQO)  
**Tusheema Dutta**, IISER TVM  
**Ron Efrat**, Ben-Gurion University of the Negev  
**Anne Eggert**, Illinois State University  
**Sean Ehlman**, Humboldt University  
**Christina Elgert**, University of Helsinki  
**Samuel Ellis**, University of Exeter  
**Yasmin Emery**, University of Neuchatel  
**Noémie Engel**, University of Bath  
**Sam England**, University of Bristol  
**Holly English**, University College Dublin  
**Mathilde Eriksen**, Max Planck Institute of Ornithology  
**Filippa Erixon**, University of Potsdam  
**Alice Exnerova**, Charles University  
**Damien Farine**, University of Zurich, IEU  
**Jane Faull**, University College Dublin  
**Erika Fernlund Isaksson**, Stockholm University  
**Claudia Fichtel**, Deutsches Primatenzentrum GmbH, Leibniz-Institut für Primatenforschung  
**Judith Field**, Exeter University  
**Jeremy Field**, Exeter University UK  
**Sophia Fitzgerald**, University of Montana  
**John Fitzpatrick**, Stockholm University  
**Enrique Font**, University of Valencia  
**Rita Fortuna**, CIBIO-InBIO  
**Maxime Fraser Franco**, University of Quebec at Montreal  
**Katie Frobisher**, Oxford University Press  
**Lutz Fromhage**, University of Jyväskylä  
**James Gallagher**, University of Denver  
**Mario Gallego-Abenza**, Stockholm University  
**Lorenzo Galletta**, Deakin University  
**Irene Gaona Gordillo**, University of Munich  
**László Zsolt Garamszegi**, Centre for Ecological Research  
**Irene Garcia Ruiz**, University of Bern  
**Marina Garrido Priego**, Universität Bern  
**Juliane Gaviraghi Mussoi**, University of Auckland  
**Antoine Gekièrè**, University of Mons  
**Maxence Gérard**, Stockholm University  
**Sinchan Ghosh**, Indian Statistical Institute  
**Aarini Ghosh**, Ashoka University  
**Diego Gil**, Museo Nacional Ciencias Naturales (CSIC)  
**Marc Gilles**, Bielefeld University  
**Natasha Gillies**, University of Liverpool  
**Molly Gilmour**, University of Potsdam  
**Kai-Philipp Gladow**, Bielefeld University  
**Alexandra Glavaschi**, University of Padova  
**Marko Glogoški**, University of Zagreb  
**Tomislav Gojak**, University of Zagreb  
**Yiftach Golov**, Tel Aviv University  
**David Gómez Blanco**, Lund University  
**Tiago Gonçalves Zeferino**, University of Neuchâtel  
**Karl Gotthard**, Dep. of Zoology, Stockholm University  
**Eleanor Gourevitch**, University of St Andrews  
**Johana Goyes Vallejos**, University of Missouri - Columbia  
**Alexandra Grandon-Ojeda**, University of Bristol

**Jonathan Green**, University of Oxford  
**Leon Green**, University of Gothenburg  
**Ginny Greenway**, University of East Anglia  
**Simon Grendeus**, Lund University  
**Michael Griesser**, Konstanz University  
**Ashleigh Griffin**, University of Oxford  
**Jennifer Grindstaff**, Oklahoma State University  
**Antoine Grissot**, University of Gdansk  
**Thibaud Gruber**, University of Geneva  
**Anja Guenther**, Max Planck Institute for Evolutionary Biology  
**Pratik Rajan Gupte**, University of Groningen  
**Abby Guthmann**, University of Minnesota  
**Zohar Hagbi**, Tel-Aviv University  
**Esha Haldar**, Max Planck Institute for Ornithology  
**Chay Halliwell**, University of Sheffield  
**Amir Haluts**, Weizmann Institute of Science  
**Peter Hammerstein**, Humboldt University Berlin  
**Christina Hansen Wheat**, Lunds University  
**Chunhui Hao**, University of Oxford  
**Ally Harari**, The Volcani Center  
**Marie-Christin Hardenbicker**, University of Hamburg  
**Jasmine Hardie**, University of Sheffield  
**Katie Harrington**, Messerli Research Institute  
**Olivia Harris**, University of Cincinnati  
**Lauren Harrison**, The Australian National University  
**Erwan Harscouet**, CEFCE CNRS  
**Yuha Hasegawa**, Nagasaki University in Japan  
**Masaru Hasegawa**, Ishikawa Prefectural University  
**Ben Hatchwell**, University of Sheffield  
**Julia Hatzl**, Swiss Ornithological Institute  
**Carly Hawkins**, UC Davis  
**Yuhan He**, University of Helsinki  
**Susan Healy**, University of St Andrews  
**Arne Hegemann**, Lund University  
**Jennifer Hellmann**, University of Dayton  
**Johanna Henke-Von Der Malsburg**, Max-Planck-Institute for Evolutionary Anthropology  
**Rie Henriksen**, Linköping University  
**Carla Henriques**, Instituto Gulbenkian de Ciência  
**Megan Henriquez**, The Graduate Center, CUNY / NYCEP / University of Calgary  
**Mariella Herberstein**, Macquarie university  
**Gabor Herczeg**, Eötvös Lorand university  
**Magdalena Herdegen-Radwan**, Adam Mickiewicz University in Poznan  
**Sam Hillman**, University of Edinburgh  
**Thomas Hitchcock**, University of St Andrews  
**Tammy Ho**, National University of Singapore  
**Gergely Horvath**, Eötvös Loránd University  
**Arisa Hosokawa**, The University of Sydney  
**Natasha Howell**, University of Bristol  
**Kingsley Hunt**, University of Exeter  
**Clíodhna Hynes**, University College Dublin  
**Amiyaal Ilany**, Bar Ilan University  
**Graziella Iossa**, University of Lincoln  
**Kavita Isvaran**, Indian Institute of Science  
**Takeshi Ito**, Osaka Metropolitan University  
**Mats Ittonen**, Stockholm University  
**Yusuke Iwata**, Osaka Metropolitan University  
**Katharine Jack**, Tulane University, Anthropology  
**Ivo Jacobs**, Lund University  
**Paris Jagers**, University of Oxford  
**Zuzanna Jagiello**, Poznan University of Life Sciences  
**Manjari Jain**, Indian Institute of Science Education and Research Mohali  
**Sven Jakobsson**, Stockholm University  
**Niklas Janz**, Stockholm University  
**Julie Jarvey**, Michigan State University  
**Kalpesh Jas**, Visva Bharati  
**Jan Jedlikowski**, Uniwersytet Warszawski  
**Václav Jelinek**, Institute of Vertebrate Biology, Czech Academy of Sciences  
**Michael Jennions**, Australian National University  
**Thomas Rejsenhus Jensen**, University of Lund  
**Zhi-Yun Jia**, Current Zoology  
**Alex Jiang**, The University of Queensland  
**Bernadette Johnson**, University of Idaho  
**Alfred Daniel Johnson**, Ben Gurion University of the Negev  
**Juho Jolkkonen**, University of Jyväskylä  
**Jolle Jolles**, CREAM  
**Alex Jordan**, Max Planck Institute of Animal Behavior  
**Carter Jordan**, University of Tennessee at Chattanooga  
**Jens Jung**, SLU  
**Tane Kaffle**, UNIL  
**Peter Kappeler**, German Primate Center  
**Kento Kawasaki**, Osaka Metropolitan University  
**Tom Keaney**, University of Melbourne  
**Jukka Kekäläinen**, University of Eastern Finland  
**Oded Keynan**, Dead Sea and Arava Science Center  
**Kawsar Khan**, Macquarie University, Australia and Shahjalal University of Science and Technology, Bangladesh  
**David Kikuchi**, University of Bielefeld  
**Allyssa Kilanowski**, University of Kentucky  
**Rebecca Kilner**, University of Cambridge, UK  
**Alexander Kirschel**, University of Cyprus  
**Ayano Kitaguchi**, Osaka Metropolitan University  
**Karin Kjærnsmo**, University of Bristol  
**James Klarevas-Irby**, Max Planck Institute for Animal Behavior  
**Kora Klein**, University of Zurich  
**Hope Klug**, University of Tennessee at Chattanooga  
**Barbara Klump**, Max Planck Institute of Animal Behaviour  
**Rob Knell**, Queen Mary University of London  
**Myriam Knöpfle**, Max Planck Institute of Animal Behavior  
**Taiga Kobayashi**, Osaka Metropolitan University  
**Yuya Kobayashi**, Osaka Metropolitan University  
**Masanori Kohda**, Osaka Metropolitan University  
**Shanelle Kohler**, Zantoiaks  
**Shanelle Kohler**,  
**Hanna Kokko**, University of Zurich  
**Niclas Kolm**, Stockholm University  
**Oren Kolodny**, Hebrew University of Jerusalem  
**Yuki Kondo**, Osaka Metropolitan University  
**Maximilian Körner**, University of Bayreuth  
**Andras Kosztolanyi**, University of Veterinary Medicine Budapest  
**Alexander Kotrschal**, Wageningen University  
**Viktor Kovalov**, University Zurich  
**Fanny-Linn Kraft**, Stockholm University  
**Anastasia Krasheninnikova**, MPIO Seewisen  
**Johannes Krietsch**, Max Planck Institute for Ornithology  
**Allan Kugel**, Rutgers University  
**Danielle Kulick**, Tulane University  
**Cecilia Kullberg**, Stockholm University  
**Miriam Kuspiel**, Wageningen University & Research  
**Matthew Kustra**, University of California, Santa Cruz

**Charlotta Kvarnemo**, University of Gothenburg  
**Daisuke Kyogoku**, The Museum of Nature and Human Activities  
**Océane La Loggia**, University of Bern  
**Marie-Ève Labonté-Dupras**, Université de Sherbrooke  
**Georgia Lambert**, University of Edinburgh  
**Ellis Langley**, University of St Andrews  
**Audrey-Anne Laurin**, Université du Québec en Outaouais (UQO)  
**Eleonore Lebeuf-Taylor**, Universität Konstanz  
**Amy Leedale**, Liverpool Hope University  
**Maëlle Lefeuvre**, Jagiellonian University  
**Romain Lefèvre**, University of Copenhagen  
**Yael Lehnardt**, Ben-Gurion University of the Negev  
**Topi Lehtonen**, University of Oulu  
**Olof Leimar**, Stockholm University  
**Rosie Lennon**, Lund University  
**Janet L Leonard**, UCSC  
**Pedro Leote**, University of Innsbruck  
**Anat Levi**, Tel Hai College, Hula Research Center  
**Rimon Levin**, Hula Research Center  
**Daiqin Li**, National University of Singapore  
**Xiangyi Li Richter**, University of Neuchatel  
**Isaac Ligocki**, Millersville University  
**Ming Liu**, University of Oxford  
**Hanna Lodberg-Holm**, University of South-Eastern Norway  
**Xiaoyan Long**, University of Groningen  
**Hugo Loning**, Wageningen University  
**Justine Loof**, L'Institut Agro Dijon  
**Karem Stephanía Lopez Hervas**, Max Planck Institute for Evolutionary Biology  
**David López Idiáquez**, University of the Basque Country & CEFE-CNRS  
**Maria-Cristina Lorenzi**, University of Sorbonne Paris Nord  
**Matthias Loretto**, Technical University of Munich  
**Arnon Lotem**, Tel-Aviv University  
**Olli Loukola**, University of Oulu  
**Emmanuel Lourie**, Hebrew University  
**Chuchu Lu**, Jagiellonian University  
**Yael Lubin**, Ben-Gurion University  
**Saverio Lubrano**, University of Konstanz  
**Mia-Lana Luehrs**, Buero Renala  
**Shannon Luepold**, Swiss Ornithological Institute  
**Sifiso Lukhele**, University of Cyprus  
**Stefan Lüpold**, University of Zurich  
**Mia Lybkær Kronborg Nielsen**, University of Exeter  
**Carly Lynsdale**, University of Helsinki  
**Lan Ma**, Stockholm University  
**Chancey Macdonald**, California Academy of Sciences  
**Tamao Maeda**, Wildlife Research Center, Kyoto University  
**Adriana Alexandra Maldonado Chaparro**, Universidad del Rosario  
**Johanna Mappes**, University of Helsinki  
**Aya Marck**, Hula Research Center, Tel-Hai College  
**Mylene Mariette**, Deakin University  
**Djordje Markovic**, Tel Aviv University  
**André Marques Condeço Ferreira**, University of Zurich  
**Susan Marsh-Rollo**, University of California Santa Cruz  
**Jordan Martin**, University of Zurich  
**Jake Martin**, Swedish University of Agricultural Sciences  
**April Robin Martinig**, University of Alberta  
**Martina Martorell Barceló**, IMEDEA  
**Fernando Mateos González**, Nature Research Centre  
**Yui Matsumoto**, Kyoto University  
**Piotr Matyjasiak**, University in Warsaw  
**Magdalena Matzke**, Ludwig-Maximilians University Munich  
**Renata Mazzei Cespe Barbosa**, University of Neuchatel  
**Erin McCallum**, Swedish University of Agricultural Sciences (SLU)  
**Fionnuala McCully**, University of Liverpool  
**Grant McDonald**, University of Veterinary Medicine Budapest  
**Allison McLaughlin**, University of Kentucky  
**Callum McClellan**, University of Bristol  
**Rebecca McNeil**, Stockholm University  
**Rochelle Meah**, University of Bristol  
**Abhishek Meena**, University of Zurich  
**Marjolein Meijdam**, University of Antwerp  
**Amanda Melin**, University of Calgary  
**Andreas Meltl**, National Cheng Kung University  
**Andrea Meltzer**, University of Konstanz, Germany  
**Magali Meniri**, University of Exeter  
**Richard Merrill**, LMU Munich  
**Marcus Michelangeli**, Swedish University of Agricultural Sciences  
**Manfred Milinski**, Max Planck Institute for Evolutionary Biology  
**Berenika Mioduszewska**, Messerli Research Institute  
**Laurie Mitchell**, The University of Queensland  
**Kaori Mizuno**, Kyoto University  
**Ayumi Mizuno**, Hokkaido University  
**Kenyon Mobley**, Norwegian University of the Arctic (UiT)  
**Bertille Mohring**, Åbo Akademi University  
**Pierre-Olivier Montiglio**, University of Quebec at Montreal  
**Zahra Moradinour**, Stockholm University  
**Manuel Morales**, Williams College  
**Elisa Morbiato**, University of Padua  
**Nathan Morehouse**, University of Cincinnati  
**Mélibée Morel**, University of Antwerp  
**Camille Morerod**, Stockholm University  
**Joe Morford**, University of Oxford  
**Juliano Morimoto**, University of Aberdeen  
**Jennifer Morinay**, CBD - NTNU  
**Fay Morland**, University of Sheffield  
**Rasmus Mohr Mortensen**, University of South-Eastern Norway  
**Roman Motyka**, Karlstad University, Sweden  
**Monica Mowery**, Ben-Gurion University of the Negev  
**Wendt Müller**, University of Antwerp  
**Gabriel Munar-Delgado**, Complutense University of Madrid  
**Chayan Munshi**, Berlin School of Business and Innovation  
**Amelia Munson**, University of Glasgow  
**Elizabeth Murphy**, Stockholm University  
**Adrianna Muszyńska**, Adam Mickiewicz University in Poznan  
**Rebecca Nagel**, Bielefeld University  
**Luis Nahmad**, University of Auckland  
**Dora Doris Elizabeth Nansamba**, Bubbles Laundromat  
**Christoph Netz**, University of Groningen  
**Thi Hanh Nguyen**, University of Vienna  
**Jan-Åke Nilsson**, Lund University  
**Małgorzata Niškiewicz**, Adam Mickiewicz University in Poznań  
**Aida Nitsch**, University of Turku  
**Sabine Noebel**, Institute for Advanced Study in Toulouse  
**Grace Nolan**, University College Dublin  
**Mayuko Nomoto**, Kyoto University

**Sören Nylin**, Stockholm University  
**Mark O'hara**, Messerli Research Institute  
**Hannah Ogden**, University of Oxford  
**Mina Ogino**, University of Zurich  
**Christian Olesen**, FTZ Westküste  
**Ana Caroline Oliveira Vasconcelos**, University of New South Wales  
**Laure Olivier**, University of Exeter  
**Mats Olsson**, University of Gothenburg  
**Javier Oñate Casado**, Charles University  
**Ena Onishi**, Kyoto University, Wildlife Research Center  
**Jack Orford**, Monash University  
**Tomasz Osiejuk**, Adam Mickiewicz University in Poznań  
**Anne Osterman**  
**Krista Oswald**, Ben-Gurion University  
**Paolo Panizzon**, University of Groningen  
**Nikolas Papanikolas**, University of Cyprus  
**Varpu Pärssinen**, University of Gothenburg  
**Arianna Passarotto**, Novia University of Applied Sciences  
**Ellen Pasternack**, Oxford University  
**Casey Patmore**, University of Edinburgh  
**Samantha Patrick**, University of Liverpool  
**Melissa A. Pavez Fox**, University of Exeter  
**Mélissa Peignier**, University of Bern  
**Vanessa Penna Goncalves**, Macquarie University  
**Julia Penndorf**, Max Planck Institute of Animal Behavior  
**Elisa Perinot**, University of Veterinary Medicine Vienna  
**Craig Perl**, Arizona State University  
**Charlotte Perrault**, University of Turku  
**Mario Pesendorfer**, University of Natural Resources and Life Sciences, Vienna  
**Elizabeth Phillips**, Wageningen University & Research  
**Kacharat Phromkhuathon**, Wildlife Behavioural Ecology for Conservation Research Center  
**Livia Pinzoni**, University of Padova  
**Pragya Poddar**, Visva Bharati University  
**Pietro Pollo**, University of New South Wales  
**Stefan Popp**, University of Arizona  
**Madlen Prang**, University of Bayreuth  
**Olga Procenko**, Newcastle University  
**Mattie Purinton**, University College Dublin  
**Sylwia Pustkowiak**, Institute of Nature Conservation, Polish Academy of Sciences  
**Brandon Quinby**, SUNY Cobleskill  
**Andres Quinones**, Université de Neuchâtel  
**Andrew Radford**, University of Bristol  
**Jacek Radwan**, Adam Mickiewicz University in Poznan  
**Samyuktha Rajan**, Stockholm University  
**Yoav Ram**, Tel Aviv University  
**Aparajitha Ramesh**, University of Groningen  
**Gianni Rasnick**, University of Tennessee at Chattanooga  
**Tom Ratz**, Ludwig-Maximilians-University of Munich  
**Veronika Rau**, University of Freiburg  
**Kanika Rawat**, Indian Institute of Science, Bengaluru  
**Stephan Reber**, Lund University  
**Martin Reichard**, Czech Academy of Sciences  
**Ernesto Restrepo Leidefors**, Stockholm University  
**Charel Reuland**, Stockholm University  
**Jon Richardson**, University of Minnesota  
**Tony Rinaud**, Bielefeld University  
**Eva Ringler**, University of Bern  
**Max Ringler**, University of Bern  
**Theo Robert**, Newcastle University  
**Katja Rönkä**, HiLife/OEB, University of Helsinki  
**Gunilla Rosenqvist**, Uppsala University / Blue Centre Gotland  
**Sarah Rossi**, Swedish University of Agricultural Sciences  
**Melissah Rowe**, Netherlands Institute of Ecology  
**Trina Roy**, Indian Statistical Institute, Kolkata  
**Tamal Roy**, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) Berlin  
**Dustin Rubenstein**, Columbia University  
**Theresa Rueger**, Newcastle University  
**Claus Rüffler**, Uppsala University  
**Joanna Rutkowska**, Jagiellonian University  
**Andrew Ryan**, University College Dublin  
**Anne Sabol**, Florida International University  
**Mohammed Aamir Sadiq**, Indian Institute of Science  
**Liran Sagi**, Ben-Gurion University of the Negev  
**Kasturi Saha**, Indian Institute of Science  
**Jacqueline Sahn**, University of Bayreuth  
**Miho Saito**, Kyoto University  
**Scott Sakaluk**, Illinois State University  
**Reyes Salas**, University of Antwerp  
**Ambre Salis**, Université Claude Bernard Lyon 1  
**Tim Salzman**, University of Kentucky  
**Eduardo Sampaio**, Max Planck Institute of Animal Behavior  
**Natalia Ivone Sandoval Herrera**, University of Toronto  
**Daniel Sankey**, University of Exeter  
**Maria Santacà**, University of Padova  
**Francesca Santostefano**, Université du Québec à Montréal  
**Hajime Sato**, Hiroshima University  
**Romina Scardamaglia**, University of Buenos Aires  
**Lukas Schad**, German Primate Center  
**Alina Schaffer**, University of Leipzig  
**Sabrina Schalz**, Middlesex University  
**Hannah Scharf**, University of Illinois Urbana-Champaign  
**Peter Schausberger**, University of Vienna  
**Lova Schildt**, Stockholm University  
**Ingo Schlupp**, University of Oklahoma - Norman  
**Miriam Scriba**, Universität Hamburg  
**Matteo Sebastianelli**, University of Cyprus  
**Nitzan Segev**, Dead Sea & Arava Science Center  
**Michal Segoli**, Ben-Gurion University  
**Lenka Sentenská**, University of Greifswald  
**Guadalupe Sepulveda**, Stockholm University  
**Eva Serrano Davies**, Netherlands Institute for Ecology  
**Brett Seymoure**, Washington University in St. Louis  
**Manvi Sharma**, Tel-Hai College  
**Ian Sherman**, Oxford University Press  
**Krista Shofstall**, University of Manitoba  
**David Shuker**, University of St Andrews  
**Matthew Silk**, CEFE (CNRS)  
**Nicolas J. Silva**, CNRS - CEFE  
**Liliana Silva**, CIBIO-InBIO/BIOPOLIS  
**Shalene Singh-Shepherd**, Royal Society Publishing  
**Erin Siracusa**, University of Exeter  
**Vedrana Šlipogor**, University of South Bohemia  
**Ioan Smart**, Abertay University  
**Nikolaos Smit**, University of Montpellier  
**Gabriella Smith**, Messerli Research Institute, VetMedUni Vienna  
**Katie Smith**, University of California, Davis  
**Lysanne Snijders**, Wageningen University & Research  
**Rhonda Snook**, Stockholm University  
**Samuel Snow**, Institute for Advanced Study in Toulouse

**Shumpei Sogawa**, Osaka Metropolitan University  
**Kristaps Sokolovskis**, Lund University, Sweden  
**Tovale Solomon**, Tel Aviv University  
**Carolin Sommer-Trembo**, University of Basel  
**Zitan Song**, Max Planck Institute of Animal Behavior  
**Enrico Sorato**, Reneco International Wildlife Consultants  
**Camilla Soravia**, The University of Western Australia  
**Carl Soulsbury**, University of Lincoln  
**Olivia Spagnuolo**, Michigan State University  
**Frigg Speelman**, University of Groningen  
**Orr Spiegel**, Tel Aviv university  
**Aravind Sridharan**, Indian Institute of Science, Bangalore  
**Agata Staniewicz**, Adam Mickiewicz University in Poznan  
**Sandra Steiger**, University of Bayreuth  
**Diego V. Stingo Hirmas**, Linköping University  
**Kelly Stiver**, Southern Connecticut State University  
**Svenja Stoehr**, Bielefeld University  
**Johannes Stökl**, University of Bayreuth  
**Aurelia Strauß**, University of Groningen & Netherlands Institute of Ecology  
**Michal Šulc**, Institute of Vertebrate Biology, Czech Academy of Sciences  
**Josefin Sundin**, Swedish University of Agricultural Sciences  
**Harry Suter**, Macquarie University  
**Elisabeth Suwandschieff**, Messerli Research Institute, VetMed Vienna  
**Toshitaka Suzuki**, Kyoto University  
**P Andreas Svensson**, Linnaeus University  
**Ola Svensson**, University of Borås  
**Birgit Szabo**, University of Bern  
**Jakub Szymkowiak**, Adam Mickiewicz University  
**Revathe T**, Jawaharlal Nehru Centre for Advanced Scientific Research  
**Min Tan**, National University of Singapore  
**Hung Tan**, Monash University  
**Juliette Tariel**, Université Claude Bernard Lyon 1  
**Claire Taylor**, University of Melbourne  
**Cynthia Tedore**, University of Hamburg  
**Camille Testard**, University of Pennsylvania  
**Jack Thorley**, University of Liverpool  
**Timo Thünken**, University of Bonn  
**Sonia Tiew**, CNRS-CEFE  
**Robin Tinghitella**, University of Denver  
**Deryk Tolman**, University of Helsinki  
**Moric Toszeghi**, University of Bern  
**Zsófia Tóth**, University of Debrecen  
**Ashley Townes**, University of Washington  
**Dominique Treschnak**, German Primate Center  
**Brian Trevelline**, Cornell University  
**Zegni Triki**, Stockholm University  
**Camille Troisi**, Ghent University  
**Jolyon Troscianko**, University of Exeter  
**Noa Truskanov**, University of Exeter  
**Matthias Tschumi**, Swiss Ornithological Institute  
**Beniamino Tuliози**, DAFNAE, University of Padova  
**Jenny Tung**, Max Planck Institute for Evolutionary Anthropology  
**Cristina Tuni**, LMU Munich  
**Audrey Turcotte**, University of Ottawa  
**Stephen Tyndel**, Max Planck Institute of Animal Behaviour  
**Eve Udino**, Deakin University  
**Isimeme Udu**, University of Tennessee at Chattanooga  
**Takahisa Ueno**, Chiba University  
**Sruthi Unnikrishnan**, National Centre for Biological Sciences, TIFR, Bangalore  
**Utku Urhan**, Lund University  
**Seyyedsajjad Vakili Shahrbabaki**, University of Turku  
**Anyelet Valencia Aguilar**, University of Bern  
**Menno Van Berkel**, University of Exeter  
**Krista Van Den Heuvel**, NIOO-KNAW  
**Annemarie Van Der Marel**, University of Cincinnati  
**Maryse Vanderplanck**, CEFE-CNRS  
**Alizée Vernouillet**, Universiteit Gent  
**Riin Viigipuu**, University of Tartu  
**Catarina Vila Pouca**, Wageningen University, the Netherlands  
**Ernő Vincze**, Lund University  
**Yoni Vortman**, Hula Research Center, Tel-Hai  
**Benito Wainwright**, University of Bristol  
**Britta Walkenhorst**, University of Zurich  
**Shuge Wang**, Queen Mary, University of London  
**Miya Warrington**, University of Manitoba  
**Mukta Watve**, University of Exeter  
**Shasta Webb**, University of Calgary  
**Nina Wedell**, University of Exeter  
**Michael Weiss**, University of Exeter  
**Franz J. Weissing**, University of Groningen  
**Gabrielle Welsh**, University of Denver  
**Vun Wen Jie**, Stockholm University  
**Stuart West**, Oxford University  
**David Westneat**, University of Kentucky  
**Mary Westwood**, University of Oxford  
**Steve Whalan**, Southern Cross University  
**David Wheatcroft**, Stockholm University  
**Rori Wijnhorst**, Ludwig Maximilian University of Munich  
**Aaron Wikle**, University of Denver  
**Sonja Wild**, Max Planck Institute of Animal Behavior  
**Joe Wilde**, University of Exeter  
**Nikolas Willmott**, The University of Melbourne  
**Roksana Wilson**, University of Bristol  
**Alastair Wilson**, University of Exeter  
**Lucy Winder**, University of Sheffield  
**Lennart Winkler**, TU Dresden  
**Sandra Winters**, University of Bristol  
**Bob Wong**, Monash University  
**Eamonn Wooster**, University of Technology Sydney  
**Dominic Wright**, Linköping University  
**Ye Xiong**, Lund University  
**Johanna Yliportimo**, Åbo Akademi University  
**Hiroto Yoshimura**, Kyoto University  
**Euan Angus Young**, Rijksuniversiteit Groningen  
**Yossi Yovel**, Tel-Aviv University  
**Costanza Zanghi**, University of Bristol  
**Claudia Zeiträg**, Lund University  
**Friederike Zenth**, Albert-Ludwigs-Universität Freiburg  
**Jeroen Zewald**, University of Veterinary Medicine Vienna  
**Jia Zheng**, University of Groningen  
**You Zhou**, Australian National University  
**Wei Zhou**, National University of Singapore  
**Svea-Sophie Zimmermann**, Swiss Ornithological Institute  
**David Zonana**, University of Denver  
**Zephyr Züst**, University of Oldenburg  
**Elena Zwirner**, Université Clermont Auvergne  
**Lena Zywucki**, University of Bayreuth

## Delegates virtually participating in ISBE 2022

**Neetika Ahlawat**, Indian Institute of Science Education and Research Mohali

**Apostolos Angelakakis**, LMU

**Emmanuelle Briolat**, University of Exeter

**Fernando Campos**, University of Texas at San Antonio

**Anahi Castillo Angon**, The University of Sydney

**Sydney Collins**, Memorial University of Newfoundland

**Brittany Coppinger**, Villanova University

**Susana Cortés Manzaneque**, University of Vigo

**Adam Cronin**, Tokyo Metropolitan University

**Ornela De Gasperin**, University of Lausanne

**Tatiana Demidova**, Severtsov Institute of Ecology and Evolution

**Ofri Eitan**, Tel Aviv University

**Lucy Farrow**, University of New England

**Ruth Fishman**, Bar Ilan University, Tel-Hai College

**Jennifer Fortunato**, The University of Alabama

**Erhao Ge**, UCL

**Maria Granell Ruiz**, Neuchâtel University

**Jodie Gruber**, University of Exeter

**Jessica Hadlow**, University of Western Australia

**James Hare**, University of Manitoba

**Beki Hooper**, University of Exeter

**Weihong Ji**, Massey University

**Jason Keagy**, Penn State University

**Patrick Kennedy**, Columbia University

**B Pralle Kriengwatana**, University of Glasgow

**Pralle Kriengwatana**, University of Glasgow

**Jesus Martínez Padilla**, Pyrenean Institute of Ecology

**Piotr Matyjasiak**, University in Warsaw

**Melanie McClure**, CNRS

**Rowan Mcginley**, Saint Louis University

**Rachael Miller (Harrison)**, Anglia Ruskin University

**Maki Morooka**, Tokyo Metropolitan University

**Kevin Neumann**, University of Illinois

**Thi Thu Ha Nguyen**, Tokyo Metropolitan University

**Sarah Nila**, Anthropology University College London

**Sarah Nila**, University College London

**Daniel Parejo Pulido**, Universidad de Castilla-La Mancha

**Courtney Pike**, University of Vienna

**Natalie Pilakouta**, University of Aberdeen

**Victoria Rostovtseva**, University of Groningen

**Christian Rutz**, University of St Andrews

**Beatriz C. Saldanha**, BIOPOLIS/CIBIO-InBIO-Research Centre in Biodiversity and Genetic Resources

**Debbie Saunders**, Wildlife Drones

**Trish Schwagmeyer**, University of Oklahoma

**Athira T K**, Jawaharlal Nehru Centre for Advanced Scientific Research

**Ilapreet Toor**, University of Toronto

**Tom Versluys**, Imperial College London

**Sarah Walsh**, University of Western Australia

**Eva Wikberg**, University of Texas at San Antonio

**Blake Wyber**, The University of Western Australia