Tamás Székely

Curriculum Vitae & List of Publications

1 September 2023

Personal statement

I am an evolutionary biologist interested in social behaviour, and also a conservationist supporting biodiversity conservation. My research skills include phylogenetic analyses, experimental and observational analyses of behaviour in wild populations, and theoretical modelling. I published over 280 peer reviewed research articles and book chapters, and 4 books, most recently on Social behaviour: genes, ecology and evolution (2010, Cambridge University Press). One of my strengths is combining different tools and approaches to understand evolution of traits such as mating systems, parental care and sexual size dimorphism. I work from genes and genomes to individuals and populations: I believe good science must be integrative.

I am primarily a researcher and a university teacher: over my full career I taught at universities and had/have teams of students, post-docs and collaborators working with me. I have supervised 33 PhD students and mentored 16 post-docs and research fellows; vast majority are employed in academia/research institutions as professors or independent investigators. I was a visiting professor at Harvard University, University of Groningen, Bielefeld and Göttingen. I am Honorary Professor at University of Debrecen (Hungary) and currently distinguished visiting professor at Beijing Normal University (China) and Sun Yat-Sen University (China). I received a Humboldt Award, and currently I am a Royal Society Wolfson Research Merit Award Holder. In 2019 I was elected a Foreign Member of Hungarian Academy of Sciences.

My current research is focusing on two major themes: (i) evolution of mating systems, parental care and sex roles; my objective here is to understand how male and female reproductive strategies evolved in vertebrates. (ii) We are recently discovering that an overlooked component of social systems (and of breeding system variation) is adult sex ratio (ASR). My objective here is to reveal the causes and implications of ASR variations in vertebrates. Obviously, (i) and (ii) are related, and my ultimate objective is to reveal their relationships. In addition, I am a dedicated conservation biologist: I founded an award-winning conservation NGO in W Africa in 2010 (Maio Biodiversity Foundation, FMB) and coordinated the NGO's strategy as President until 2018.

PROFESSIONAL DETAILS

Position	Professor of Biodiversity
Institution	Department of Biology and Biochemistry, University of Bath, Bath BA2 7AY, UK Milner Centre for Evolution, University of Bath, Bath BA2 7AY, UK
Contacts	Phone +44 1225 383676, Fax +44 1225 386779, E-mail T.Szekely@bath.ac.uk https://researchportal.bath.ac.uk/en/persons/tamas-szekely
Research IDs	ResearcherID I-7089-2016, ORCID 0000-0003-2093-0056 https://www.researchgate.net/profile/Tamas-Szekely https://scholar.google.co.uk/citations?user=EU5mIF8AAAAJ&hl=en

EDUCATION

1983 - 1986	Ph.D. in Animal Ecology, Department of Ecology, Kossuth University, Debrecen, Hungary. Title of thesis '*Niche-structure of an oak-forest bird community*'. Grade: *summa cum laude*
1978 - 1983	Diploma and Teaching Certificate in Biology and Chemistry, Faculty of Science, Kossuth University, Debrecen. Diploma thesis: '*Nesting behaviour of whiskered terns in Hortobágy National Park*'. Grade: 4.5/5

APPOINTMENTS

2023 -	Professor and Director of Debrecen Biodiversity Centre
2007 -	Professor of Biodiversity, University of Bath
2006 - 2007	Reader in Evolutionary Biology, University of Bath
2004 - 2005	Senior Lecturer in Evolutionary Biology, University of Bath
2000 - 2004	Lecturer in Evolutionary Biology, University of Bath
1997 - 2000	Post-doctoral Research Associate, University of Bristol, position funded by NERC to Professors A. I. Houston, I. C. Cuthill and J. M. McNamara

1995 - 1997	Post-doctoral Research Assistant, University of Bristol, position funded by Leverhulme Trust to Professors A. I. Houston, I. C. Cuthill and J. M. McNamara
1989 - 1995	Lecturer in Animal Behaviour, Department of Zoology, Kossuth University
1988 - 1989	Research Scientist, Department of Zoology, Kossuth University
1986 - 1988	Research Assistant, Hungarian Ornithological Society, Budapest

HONOURS AND AWARDS

2023	Medal of Merit awarded to Maio Biodiversity Foundation (FMB) by the President of Cabo Verde
2019 -	Foreign Member of Hungarian Academy of Sciences
2017 -	Royal Society Wolfson Merit Award
2017 -	Honorary Professor of Debrecen University
2017 -	Visiting Professor at Beijing Normal University, China. Host: Prof Zhengwang Zhang
2016 - 2017	Fellow of Advanced Institute of Berlin. Germany. Focal Group Leader
2016	DSc degree of Hungarian Academy of Sciences, Budapest
2015 - 2016	NWO Visiting Professor, University of Groningen. Host: Prof Jan Komdeur (value €8000)
2014 - 2018	Visiting Professor at Sun Yat-Sen University, Guangzhou, China. Hosts: Prof Hong Pang & Dr Liu Yang
2012 - 2013	Humboldt Award at University of Göttingen, funded by Humboldt Foundation (value €60,000). Host: Professor Peter Kappeler
2012 - 2013	Mercator Visiting Professor at University of Bielefeld funded by German Science Foundation, DFG (value €98,000). Hosts: Prof Oliver Krüger and Prof Fritz Trillmich
2011 - 2012	Visiting Professor at University of Groningen, Erasmus Mundus Programme in Evolutionary Biology (value €14,400). Hosts: Profs J Komdeur & F J Weissing
2010 -	Maio Biodiversity Foundation (Fundação Maio Biodiversidade, FMB), President & Founder, Republic of Cape Verde. I founded the first conservation NGO in Maio with 5 locals (Elvio Rosa, Andy Hegedus, Luís Delgado, Carlos de Pina, Luíza Helisabeth & Alain Hurtebize)
2010	Honorary Member of Hungarian Ethological Society
2006 - 2007	Hrdy Visiting Fellowship, Museum of Comparative Zoology, Harvard University to study social evolution of shorebirds (value $55,000). Host: Professor David Haig
2005 - 2006	Leverhulme Research Fellowship, University of Bath to study conservation of endangered shorebirds (value £22,000)
2000 - 2005	Visiting Scientist, University of Bristol
1997 - present	Council Member, Scientific Committee of the Hungarian Ornithological Society
1994 - 1995	Leverhulme Post-doctoral Visiting Fellow, University of Bristol. Host Professor A. I. Houston (value £14,800)
1994	Habilitation, Kossuth University. Title of thesis '*Behavioural ecology of avian flocking, foraging and reproductive behaviour*', grade: 21/21
1992 - 1993	Hungarian Post-doctoral Fellowship of The Royal Society, University of Sheffield. Host Dr C. M. Lessells (value: £10,600)
1990 - 1991	'Magyar Tudományért' Award of Hungarian Credit Bank, Kossuth University, Debrecen (value: HuF 150,000)
1988	Established the Behavioural Ecology Research Group (VÖCS) at Kossuth University and lead it until 1994
1988 - 1989	'Universitas' Award of Kossuth University, Debrecen (value: HuF 50,000)
1987 - 1988	Soros Post-doctoral Visiting Fellowship, University of Oxford. Host Professor C. M. Perrins (value: £6,400)

HONOURS AND AWARDS (non-academic)

2020	Hungarian Order of Merit (Magyar Érdemrend Tisztikeresztje)

2019 Honorary Plaquette of Kazincbarcika City (Hungary)

RESEARCH FUNDING (recent main grants; does not include externally-funded PhD studentships, Marie Curie Fellows, small grants and conservation grants attained via Maio Biodiversity Foundation)

1. ELKH – DE, PI: T Székely, Reproductive strategies research group, 2022 – 2027, 240 M HuF
2. EU - LIFE, PI: Lengyel, Sz (Eötvös Lóránd Research Network, Hungary), Innovative management of Pannonic salt steppes and loess steppic grasslands to benefit plants, insects and birds, 2022-2027, EUR 2,545,962 (Székely T, co-beneficiary EUR 273,383)
2. Royal Society APEX award**,** Székely T & Ruth Mace (UCL), The impact of adult sex ratio on societies, 2019-2020, £98,207
3. ÉLVONAL Hungarian Scientific Fund, Székely T, Barta Z & A. Kosztolanyi (University of Debrecen), Sex role evolution: testing the impacts of ecology, demography and genes, 2018 – 2022, 236 M HuF
4. Royal Society Wolfson Merit Award, Székely T, Sex role evolution, 2017-2021, £75,000
5. Royal Society Newton Advanced Fellowship, Székely T & D Cortez UNAM, Mexico), Genomic causes of adult sex ratio variation, 2017-2019, £87,000
6. Royal Society – CNRS, Szekely T & J-M Gaillard, Causes and implications of adult sex ratio variation in mammals, 2017-2019, £11,920
7. Royal Society Newton Advanced Fellowship, Székely T & A Gonzalez-Voyer (UNAM, Mexico), Sex role evolution in birds, 2015-2018, £64,000
8. OTKA Hungarian Scientific Fund, Székely, T, A. Liker & Z Barta (Debrecen University), Breeding system variations in vertebrates: the significance of adult sex ratio, 2016-2019, £104,878

ADMINISTRATIVE DUTIES

Member of NERC Strategic Advisory Board, University of Bath (2021 – present)
Chair of Scientific Advisory Panel of Hungarian Ecological institutes (2020 – present)
Vice Director of Evolution Theme, University of Bath (2016-2019)
Acting Head of Department (temporary replacement for HoD), University of Bath, 2011 & 2012
Member of Centre for Mathematical Biology, Biology Teaching Committee (2000 – present)
Served the Departmental Research Committee (2009 – 2011)

COMMITTEE MEMBERSHIPS

Chairperson of the Hungarian Ecological Institutes' Advisory Board (2020 – present)
Portuguese Scientific Foundation (FCT) board member (2012 – 2018)
VolkswagenStiftung panel member (2007 – 2012)
NERC College member (2007 – 2011)

PROFESSIONAL MEMBERSHIPS

Edited a volume of Philosophical Transactions of the Royal Society on adult sex ratios (2017)
Referee manuscripts for all major journals in my field and for interdisciplinary journals including Science, Nature, PNAS, Current Biology and others
Referee research grants for BBSRC, Leverhulme Trust, NSF, VolkswagenStiftung (Germany), WissenschaftFonds Austria, Czech Scientific Foundation, Hungarian Scientific Research Fund and others
Book reviewer of Ibis, Auk, TREE, BioScience
Edited a volume of Philosophical Transactions of the Royal Society on parental care (2002)
Member of American Ornithologist's Union (since 1987), Association for the Study of Animal Behaviour (since 1987), British Ecological Society (since 1989), British Ornithologists' Union (since 1987), Hungarian Ethological Society (since 1991), International Society for Behavioral Ecology (since 1990), Wader Study Group (since 1989)

SCIENTIFIC ACTIVITIES

Sex roles and breeding systems in shorebirds, ÉLVONAL conference. Debrecen, 5-9 January 2023, organiser
Social behaviour, demography and conservation in shorebirds, ÉLVONAL conference. Debrecen, 14-15 January 2022, organiser
Sex roles and breeding system evolution, ÉLVONAL conference. Debrecen, 15-16 January 2021, organiser
Modelling population dynamics: estimating demographic parameters for wildlife conservation. Debrecen, 13-19 January 2020, organiser

Reproductive strategies from genes to societies – Frontiers in animal and plant reproduction research. Debrecen, 7-10 November 2019, organiser
New directions in evolutionary research of sex roles, ÉLVONAL conference. Debrecen, 10-13 January 2019, organiser
Genes, sex and behaviour, Symposium at UNAM, Mexico City, 5-6 September 2018, organiser
Social evolution, ÉLVONAL Conference. Hortobágy, Hungary, 19 – 22 April 2018, organiser
Sex-role evolution: integrating neural, behavioural and phylogenetic approaches, Workshop at Tihany, Hungary, 6 – 9 April 2017, organiser
Adult sex ratios and reproductive decisions: integrating data and theory across the biological and social sciences. Workshop at Advanced Institute of Berlin, February 2017, organiser
Causes and implications of adult sex ratio variation in vertebrates. Focal Group leader, Advanced Institute of Berlin, Sept 2016 – July 2017
Sex roles, sex determination and behaviour, Workshop at UNAM Genome Centre, Cuernavaca, 22-24 August 2016, organiser
Sex determination and sex roles, Bath – UNAM (Mexico City) joint Workshop, organiser, Bath, 19 April 2016
Evolution of avian social behaviour: from neuropeptides to neurogenomics, symposium at the 26th International Ornithological Congress, August 2014, Tokyo, organiser
Postgraduate Training Workshop in Breeding System Evolution. Guangdong, China, June 29 - July 3, 2014, organiser
New directions in sex role research, symposium at the 14th Congress of the European Society for Evolutionary Biology, Lisbon, Portugal, August 2013, organiser
New directions in sexual selection research, international research conference, August 2010, Bath, co-organiser
Evolution of avian breeding systems: conflict and cooperation, symposium at the 25th International Ornithological Congress, August 2010, Brazil, organiser
Conflict and cooperation in animal societies, INCORE postgraduate research workshop, November 2009, Kolozsvar, Romania, co-organiser
Sexual conflict, postgraduate workshop, University of Tlaxcala, Mexico, May 2009, co-organiser
Conflict and cooperation in animal societies, INCORE postgraduate research workshop, January 2008, Debrecen, organiser
Sexual size dimorphism, international research workshop, August 2005, Monte Verita, Switzerland, co-organiser
Population dynamics of waders, international research workshop, October 2005, Cork, Ireland, co-organiser
Conflict and cooperation in parental care, international research workshop, August 2000, Seewiesen, Germany, co-organiser
Behavioural Biology Seminars at University of Bristol, 1998-2000, Bristol, organiser
Postgraduate Workshop of Centre for Behavioural Biology at Bristol, January 2000, co-organiser
The significance of evolutionary biology for conservation, national workshop, 1995, Tiszafüred, Hungary, organiser
Conservation biology of Kentish plover, symposium at the Wader Study Group Conference, 1995, Aveiro, Portugal, co-organiser
Joint Conference of International Wetland Research Bureau (IWRB) and Wader Study Group (WSG), 1992, Hajdúszoboszló, Hungary, organiser

SOCIETY & BIODIVERSITY CONSERVATION

In 2010 I funded a conservation NGO in West Africa, the Maio Biodiversity Foundation (2010), and served the NGO as President from 2010 until 2018. The mission of FMB is to protect wildlife and nature with the involvement of local communities in the remaining unspoiled islands in Cape Verde, Maio. Our programmes include protection of sharks, whales, sea-turtles and birds. Since 2010 FMB went through a rapid growth and currently we have 10 paid staff. We provide jobs for over 100 people in Maio, and provide training for over 70 international volunteers. One of our main success was the expansion of protected areas in 2015. Our work is supported by major conservation donors including Fauna & Flora International, MAVA, Rufford Foundation and US Fish & Wildlife, and private donors. We won numerous conservation awards including the Grassroot Conservation Award in 2015, and for our successful conservation in West Africa, MAVA awarded us the Leaders for Nature Academy title in 2019.

INVITED RESEARCH LECTURES

2022 Faculty of Science, University of Debrecen; Centre for Ecological Research, Vacratot, Hungary; University of Bielefeld, Germany
2021 Ecology & Evolution, University of Bern, Switzerland, Dept of Evolutionary Zoology, Debrecen University; Ecology & Evolution, University of Lausanne, Switzerland; University of Melitopol, Ukraine; National Cheng Kung University, Taipei, Taiwan; University of Padova, Italy; University of Milan, Italy
2020 Faculty of Life Sciences, Beijing Normal University
2019 Eötvös University, Fruits of Ethology; Department of Biology, University of Copenhagen; Faculty of Life-Sciences, Beijing Normal University; Shenzen Ornithological Society, China; 70th anniversary of Science Faculty of University of Debrecen
2018 Cardiff University, Beijing Normal University, Sun Yat-sen University (China)
2017 Max Planck Institute for Evolutionary Anthropology, Leipzig (Germany); University of Santiago de Compostela (Spain), Gubelkian Research Institute (Portugal), University of Stockholm (Sweden), Beijing Normal University (China), Department of Life Sciences, University of Groningen
2016 Centre for Social Evolution, University Copenhagen (Denmark); Dept of Life Sciences, University of Groningen; International Institute for Applied Systems Analysis, Laxenburg (Austria); Dept of Ecology & Systematics, Eötvös University, Budapest (Hungary)
2015 Faculty of Life Sciences, University of Groningen (Netherland), Ecologia Instiute of UNAM, Mexico City (Mexico), Research Centre in Biodiversity and Genetic Resources, Porto (Portugal), Zoology Institute of Chinese Academy of Sciences, Beijing (China), Debrecen University, University of Graz (Austria), Institute of Science and Technology (Austria), Max Planck Institute, Cologne (Germany)
2014 University of Oxford, Cambridge University, University of Lausanne (Switzerland), Beijing Normal University (China), CSIC Biological Station of Donana, Sevilla (Spain), Debrecen University (Hungary)
2013 Max Planck Institute for Ornithology, Seewiesen (Germany), University of Bielefeld (Germany), Institute for Wildlife Biology (IZW, Berlin), Free University of Berlin (Germany), Sun-Yat Sen University Guangzhou (China), Georg-August University of Göttingen (Germany)
2012 Emory University (US), University of Texas (US), Basel University (Switzerland), University of Zurich, University of Kiel (Germany), University of Göttingen (Germany), Max Planck Institute for Evolutionary Biology, Plön (Germany), University of Sheffield
2011 University of Edinburgh, University of Groningen (Netherlands), University, Göttingen, University of Bielefeld (Germany), Institute for Science and Technology, Vienna (Austria), Liverpool University, Babes-Bolyai University (Romania), University of Hail (Saudi Arabia)
2010 University of Hannover (Germany), Durrell Wildlife Trust (Antananarivo, Madagascar)
2009 Jean Piaget University (Cape Verde), Debrecen University (Hungary), University of Tlaxcala (Mexico), UNAM Limnology Laboratory, Mazatlan (Mexico), University of Exeter at Cornwall
2007 Concord Field Station, Harvard University Feb 2007; Dept Behavioral Neuroscience, Emory University Feb 2007; Conservation International, Washington DC March 2007; University of Colorado, March 2007; University of California Santa Barbara April 2007; University of California, Berkeley April 2007
2005 GULP Lecture, University of Bath, February 2005
2004 National University of Singapore, February 2004
2003 Simon Fraser University, Vancouver (Canada); University of California, Riverside (US); Tour du Valat Biological Research Station (France); Biological Institute of Donana (Spain); Dept of Zoology, University of Bern (Switzerland), University of Newcastle
2001 Instituto de Ecologia, UNAM (Mexico)
2000 Department of Environmental and Evolutionary Biology, University of Glasgow; School of Animal Sciences, University of Reading
1999 Department of Zoology, University of Oxford; Department of Landscape Ecology, Çukurova University (Turkey)
1998 Department of Zoology, Cambridge University; Department of Zoology, Kossuth University
1995 Konrad Lorenz Institute, Vienna, Austria
1994 School of Biological Sciences, University of East Anglia; School of Biological Sciences, University of Bristol; Section in Neurobiology and Behavior, Cornell University (US)

INVITED LECTURES AT CONFERENCES AND WORKSHOPS

I have presented or co-authored 200+ talks and posters at various international and national conferences.

Invited talks included:

2022 European Ornithologists Union Fledgling Conference, August 2022, Debrecen - Inspirational speaker
2022 European Conference on Behavioural Biology, July 2022, Groningen – Invited symposium speaker
2021 WaderQuest Annual Symposium, 7 Nov 2021, UK;
2020 Biological bases of behaviour, 25th anniversary of Tlaxcala Postgraduate Workshop, Mexico, 26-30 October 2020, online
2019 Sex difference in life expectancy, Workshop organised by Max Planck Research Group in Demography, Odense, Denmark; July 2019
2018 International Ornithological Conference, Vancouver (Canada), August 2018 invited symposium keynote speaker;
Genes, sex and behaviour Symposium, Mexico City, September 2018, invited speaker
2017 The use of ecology for the society. Hungarian Academy of Sciences, Budapest, November 2017
Legacy of Miklos Udvardy, University of Debrecen, November 2017
International Wader Study Group Conference, September 2017, Prague, invited plenary speaker
European Neuroscience Conference, September 2017, Pecs (Hungary), invited symposium speaker
Workshop on adult sex ratios and reproductive decisions, Berlin, February 2017, invited speaker
Evolution of sex roles workshop, April 2017, Tihany (Hungary), invited speaker
2016 Model systems in animal behaviour, Hungarian Ethologists Conference, 2-4 December 2016, Debrecen, Hungary, plenary speaker
First conference of B10k consortium, 26-29 October, Beijing, China, invited speaker
Science and Humanities Conference of Mexican Academy of Sciences, 24-26 August, Mexico City, invited speaker
Sex roles, sex determination and behaviour, Workshop at UNAM Genome Centre, Cuernavaca, 22-24 August, invited speaker
2015 Chinese Ornithological Congress, Hefei, 13-15 November, plenary speaker
Recent directions in evolutionary biology, 12 November, Budapest (Hungary), Organised by Hungarian Academy of Sciences, invited speaker
Genomes and Evolution, Workshop organised by UNAM (Mexico) and Bath, 23 – 26 August, invited speaker
2014 VolkswagenStiftung Status Symposium on Evolutionary Biology, Hannover, 7 – 10 July, plenary speaker
2013 VolkswagenStiftung Conference on Evolutionary Biology, Hannover, 18-20 October, plenary speaker
2011 Conflict and cooperation in family life, Hungarian Ethologists' Conference, 25 – 26 November, Debrecen, plenary speaker
Climate change and biodiversity, Conference of Saudi Biological Society, 11-13 May, Taif, Saudi Arabia, keynote speaker
2009 Cooperation: an Interdisciplinary Dialogue, INCORE Conference, 18-20 April, Budapest, invited speaker
2007 University Charter Day 12 October, Bath; Invited speaker
Mating System Evolution, The Royal Swedish Academy of Sciences, Sweden, July, invited speaker
2006 International Ornithological Congress, Hamburg, August, symposium keynote speaker
2005 International Ethological Congress, Budapest, August, plenary speaker (cancelled, due to other commitment)
2004 Invited speaker, International Symposium on Migratory Birds, Gunsan, Korea
European Conference on Behavioural Biology, Groningen, invited symposium speaker
Association for the Study of Animal Behaviour, London, December, invited speaker
2003 'Long term studies of birds', EGI/British Ornithologists Union Conference, University of Oxford, invited speaker
'Workshop on Western Sandpiper', Simon Fraser University (Canada), invited speaker
'Behavioural Ecology', Hungarian Academy of Sciences, Budapest (Hungary), invited speaker
2001 'Avian breeding systems', EGI Student Conference, University of Oxford
4th Turkish Ornithological Conference, Kayseri (Turkey)
Postgraduate Conference in Behaviour and Physiology, University of Tlaxcala (Mexico)
2000 'Sexual conflict', Winter Meeting of The Association for the Study of Animal Behaviour, London
1999 Hungarian Ornithological Conference, Budapest (Hungary)

1998 'Vertebrate Mating Systems' organized by Drs M. Apollonio and M. Festa-Bianchet, Erice (Italy)

INVITED LECTURES AT POSTGRADUATE COURSES

2018 UAM-Bath postgraduate course, Mexico City, 26 August – 4 September 2018; Sexual conflict course for postgraduate students, University of Debrecen, April 2018

2016 Topmasters, University of Groningen 14 January 2016; Sexual conflict course for postgraduate students, University of Debrecen, 11-17 April 2016

2015 Sexual conflict course for MSc and PhD students at Sun Yat-sen University, 24-30 May, Guangzhou (China)

2014 Field Course for University of Cape Verde students, Maio, 24 – 29 Sept 2014

2014 Breeding system evolution, Postgraduate Summer School in Ecology, Behaviour and Conservation, at Heidishiding Research Station of Sun Yat-sen University, China, 29 June – 3 July 2014. I initiated the Summer School, and helped running the School. In 2021 the Summer School was attended by 150 students from 60 universities from China and internationally.

2014 Evaluator of Master Course in Conservation Biology, University of Lausanne, 29-31 January 2014

2013 MSc course in Behavioural Biology, University of Göttingen; International Student Conference on Behavior and Cognition, University of Göttingen

2012 Cold Spring Harbor Conference on Social cognition, Long Island, NY

2012 Blokkurs Zoology and Evolution (University of Basel)

2012 Erasmus Mundus Master Programme in Evolutionary Biology (University of Groningen)

2011 'Postgraduate course on conservation biology', Babes-Bolyai University, Cluj, Romania

2001 'Postgraduate Course in Behavioural Ecology', Kossuth University, Debrecen

1999 'New Directions in Behavioural Ecology', Kossuth University, Debrecen

1998 'Statistics and Experimental Design', University of Veterinary Sciences, Budapest

1990 'Optimality in Ecology', organized by Nordic Ecological Council, Stockholm, Sweden

EDUCATION, OUTREACH & POPULAR SCIENCE – INVITED PRESENTATIONS

2021 Hungarian Embassy, London, December 2021; LIFE project kick-off meeting, Harta, Hungary, November 2021; Field course training for biology teachers, June & November 2021, Hortobagy, Hungary; Wetlands and waterbird conservation, BirdLife Belarus, Turov, Belarus

2020 Universities for Science Consortium, Mexico

TEACHING EXPERIENCE

2013	Undergraduate Lectures: Conservation biology, University of Bielefeld (all years, 12 lectures)
2002 - present	Undergraduate: Lectures: Behaviour and ecology (second-year BSc & MBiol, 8 lectures and 1 practical), University of Bath
2007	Undergraduate: Conservation biology (Harvard University, final-year students)
2002	Completed 'Learning and Teaching in Higher Education' accredited programme of Institute for Learning and Teaching in Higher Education, University of Bath
2002 - present	Undergraduate: Lectures: Sexual conflict (final-year BSc & MBiol, 20 lectures), Tutorials (4 second-year students), University of Bath
2000 - present	Undergraduate: Lectures: Animal Behaviour (level 2, 6 lectures), Ecology (level 1, 6 lectures), Tutor (4 first-year students), Field Course (level 2, 5 days), Final-year project supervision (4 students/year), University of Bath
1999 - 2000	Undergraduate: Tutorial Associate to Professor A. K. Stobart, University of Bristol
1996 - 2000	Undergraduate: Co-supervisor of honours research projects, University of Bristol
1996 - 1997	Postgraduate: I gave lectures on Quantitative Methods in Biology at University of Bristol, (3 lectures) and co-organized the course
1993 - 1996	Postgraduate: I lectured on Animal Behaviour and Behavioural Ecology (4 lectures) at Eötvös University, Budapest and Kossuth University
1988 - 1992	Undergraduate: I gave lectures on Animal Behaviour (10 lectures), Behavioural Ecology (10 lectures) and Vertebrate Biology (16 lectures + 32 practicals) at Department of Zoology, Kossuth University
1983 - 1986	Undergraduate: I gave lectures on Ecology (4 lectures), led

practicals in Plant Taxonomy (16 practicals) and lead field courses (5 days) at Department of Ecology, Kossuth University

PhD EXAMINATIONS

2023	Conrad van den Ende (Bath, internal examiner)
2020	Katherine Klein (Bath, internal examiner), Sajad Ashghali Farahani (Groningen, external examiner)
2018	Jack Oyston (Bath, internal examiner)
2017	Thomas Oudman (Groningen, external examiner)
2016	Li Lei (Groningen, external examiner), Seyed Aminiasab (Groningen, external examiner), Alazne Diaz (Donana Biological Station, Sevilla, external examiner), Jiayue Yan (Donana Biological Station, Sevilla, external examiner)
2015	Piet van den Berg (Groningen, external examiner)
2014	Anne O'Connor (Bath, internal examiner), Mufid Abou-Turab (Swansea, external examiner), Rafael Gutierrez (Donana Biological Station, Sevilla, external examiner)
2012	Cas Eikenaar (Groningen, external examiner)
2010	Rebecca Haywood (Bath, internal examiner), Oscar Veddel (Groningen, external examiner), Warren Read (Reading, external examiner), Adams Chaskda (Cape Town, external examiner)

ADVISOR OF POST-DOCS AND RESEARCH FELLOWS

Dr Halimubieke, N 2021 – 2022	Social networks and sex ratio variations in humans and non-human populations. University of Bath, funded by the APEX project
Dr Valdebenito, Jose 2021 –	Immune causes of sex different mortalities. University of Debrecen, funded by the ELVONAL project
Dr Jones, William 2020 – 2022	Demographic analyses of Madagascan plovers. University of Debrecen, funded by the ELVONAL project
Dr McDonald, Grant 2019 –	Nest cover selection in shorebirds. Based at Veterinary University, Budapest. Funded by Hungarian Research Council
Dr Fresnau, Nolwenn 2019 –	Sex ratio and mating system evolution in jacanas. Based at University of Pannonia. Funded by Hungarian Research Council
Dr Kubelka, V 2018 – 2022	Sex role behaviour in shorebirds. University of Debrecen, funded by the ELVONAL project
Dr Song, Zitan 2018 – 2021	Mate choice and mate fidelity in plovers. Based at Sun Yat-sen University. Funded by Sun Yat-sen University
Dr Que, Pinjia 2016 – 2019	The adaptive value of camouflage in plovers. Based at Beijing Normal University and funded by Chinese Research Council
Dr Vági, Balázs 2016 –	Phylogenetic analyses of parental care in frogs. Based at Debrecen University and funded by NKFKI grant (Hungary)
Dr Ancona, Sergio 2014 - 2016	Demographic analyses of adult sex ratios. Funded by Conacyt
Dr Zefania, Sama 2013 - 2016	Mating system and parental behaviour of Malagasy plovers. Based at University of Toliary, Madagascar
Dr Pogány, Ákos 2012 - 2015	Experimental analyses of parental role learning. Based Eötvös University. Funded by Hungarian Science Foundation (OTKA)
Dr Ashbrook, Kate 2011 - 2014	Reintroducing the Great Bustard *Otis tarda* to UK. Funded by EU- LIFE+
Dr Amano, Tatsuya 2011 - 2018	Bayesian analyses of waterbird population trends. Funded by Japanese Science Foundation, based at University of Cambridge (host: Prof W Sutherland & Prof Székely)
Dr Liker, András 2011- 2013	Sex roles and sexual selection. Marie Curie Advanced Fellow, based at University of Sheffield (hosts: Prof R Freckleton & Prof Székely)
Dr van Dijk, René 2009-2010	Conflict and cooperation in penduline tits. Funded by INCORE, EU-NEST
Dr Long, Peter 2008 - 2011	Landscape genetic analyses of Malagasy waterbirds. Funded by The Leverhulme Trust
Dr Küpper, C 2008 – 2009	Cooperation between Kentish plover parents. Funded by EU-Coordinated Action INCORE
Dr O'Connell, M 2007 – 2009	Teaching Fellow, Funded by University of Bath
Dr Harrison, F 2007 – 2009	Parental cooperation. Funded by EU-Coordinated Action INCORE
Dr Olson, Val 2006 – 2009	Sexual conflict between parents. Funded by NERC

Dr Liker, András 2004 – 2005	Mortality cost of sexual selection and parental care. Funded by NATO Post-doctoral Fellowship
Dr Kosztolányi, A 2003 – 2006	Negotiations between parents over care of their offspring. Funded by BBSCR

PhD SUPERVISION – current students

Boughdiri, Hela 2022 –	Movements, breeding systems and conservation of Malagasy plovers. Funded by Stipendium Hungaricum. Based at University of Debrecen. Lead supervisor.
Jain, Shalini 2022 –	Evolution of sex role reversal in greater painted snipe. National Cheng Kung University, Taiwan. Lead supervisor: Dr Yu-Hsun Hsu
Takács, Fanni 2022 –	Reconstructing the insect and bird communities in a Central-European alkaline grassland. Based at University of Debrecen. Lead supervisor.
Chenjing, Huang 2021 –	Breeding system and movement of Kentish plovers in Bohai Bay. Beijing Normal University, China. Lead supervisor: Prof Zhengwang Zhang
Romy Rice 2020 –	Conservation biology and education policy in Cape Verde. University of Bath. Milner Studentship. Co-supervisor: Dr Araxi Urrutia (Bath)
Wanders, Kees 2019 –	Genetic diversity and speciation in shorebirds. University of Bath. NERC-CASE studentship. Co-supervisors: Prof Mike Bruford (Cardiff), Dr Araxi Urrutia (Bath), Dr Guojie Zhang (University of Copenhagen, Denmark)
Engel, Noemie 2019 –	Social structure of an island bird population. University of Bath. Funded by Fonds National de la Recherche, Luxemburg. Co-supervisor: Dr András Kosztolányi (University of Veterinary Sciences, Hungary)
Kiss, Ádám 2019 –	Status and conservation biology of collared pratincole. University of Debrecen. Co-supervisors: Dr Szilvia Gori (Hortobagy National Park), Istvan Kapocsi (Hortobagy National Park)
Szemán, Karola 2017 –	Conservation biology of a semi-natural population of Prezwalski horse in Hungary. Debrecen University. Lead supervisor: Dr Zsolt Vegvari. Funded by Debrecen University
Zhang, Lisheng 2017 –	Experimental analyses of adult sex ratio variation. University of Groningen. Lead supervisor: Prof Jan Komdeur, Groningen
Katona, Gergely 2016 –	Adult sex ratios and breeding systems in teleost fishes. Based at University of Debrecen. Funded by Debrecen University

PhD SUPERVISION – completed PhD dissertations

36. Tanner, Claire 2023. Reproductive strategies in shorebirds. University of Bath.
35. Zheng, Jia 2022. Evolutionary ecology of the variable breeding system of Chinese penduline tits. University of Groningen.
34. Long, Xiaoyan. 2022. The evolution of parental sex roles. University of Groningen
33. Valdebenito, Jose O. 2020. Causes of sex-different mortalities in birds: pathogens and immunocompetence. University of Bath.
32. Halimubieke, Naerhulan. 2020. Mating system variation in relation to disease biology in *Charadrius* plovers. University of Bath.
31. Kubelka, Vojtěch. 2018. Significance of predation for breeding ecology and conservation in shorebirds. Charles University, Prague. Won the Bolzano Award (Best PhD Award) of Charles University, Prague and the Best Science PhD Award of Charles University.
30. D'Urban Jackson, Josephine. 2018. Population genetic consequences of mating systems and dispersal. University of Bath.
29. Maher, Katy. 2018. Genomic basis of adaptation in avian systems. University of Bath.
28. Eberhart-Phillips, Luke. 2017. Consequences of individual variation on population dynamics. PhD dissertation, *summa cum laude*. Bielefeld University. Won the Best PhD Dissertation Prize of Bielefeld University.
27. Carmona, Cristina. 2016. Breeding system evolution in relation to adult sex ratios. PhD dissertation, University of Bath.
26. Que, Pinjia. 2015. Breeding system of plovers in Bohai Bay, China. PhD dissertation, Beijing Normal University.
25. Al-Malki, Mohammed. 2014. Conservation biology of wetland birds: breeding ecology, spatial analyses and genetic differentiation. PhD dissertation, University of Bath.

24. Ockendon, Nina. 2014. Comparative transcriptome profiling in wild species: uncovering gene expression signatures of mating systems. PhD dissertation, University of Bath.
23. Ball, Alex. 2014. Sexual conflict in the penduline tits (Remizidae): implications for sperm competition and speciation. PhD dissertation, University of Bath.
22. Parra, Jorge. 2014. Breeding system evolution of Malagasy plovers. PhD dissertation, University of Bath.
21. dos Remedios, Natalie. 2013. The evolutionary history of plovers, genus *Charadrius*: phylogeography and breeding systems. PhD dissertation, University of Bath.
20. Burnside, R John. 2013. Reintroduction and conservation of Great Bustard *Otis tarda*. PhD dissertation, University of Bath.
19. Tico, Araceli A. 2011. Sexual selection, breeding systems and melanin-based plumage colouration in plovers *Charadrius spp*. PhD dissertation, University of Bath.
18. Burns, Fiona. 2011. Conservation biology of endangered St Helena plover *Charadrius sanctaehelenae*. PhD dissertation, University of Bath.
17. Al Rashidi, Monif. 2010. Breeding ecology and conservation of Kentish plover in Saudi Arabia. PhD dissertation, University of Bath.
16. St Clair, James. 2010. Plovers, invertebrates and invasive predators: Aspects of the ecology of some island populations. PhD dissertation, University of Bath.
15. Zefania, Sama. 2012. Conservation biology of endangered Madagascar plover. PhD dissertation, University of Antananarivo, Madagascar.
14. Mészáros, Lidia Anna. 2010. Breeding system and cuckoldry in the Eurasian penduline tit (*Remiz pendulinus*). PhD dissertation, University of Szeged.
13. Garcia-Peña, Gabriel Ernesto. 2009. Phylogenetic comparative analyses of breeding systems and life-history strategies in shorebirds. PhD dissertation, University of Bath.
12. van Dijk, René. 2009. Sexual conflict over parental care in penduline tits. PhD dissertation, University of Bath.
11. Pogány, Ákos. 2009. Breeding systems in penduline tits: sexual selection, sexual conflict and parental cooperation. PhD dissertation, Eötvös University, Budapest.
10. Küpper, Clemens. 2008. Molecular ecology of the Kentish plover. PhD dissertation, University of Bath.
9. Long, Peter. 2008. Ecological and life-history basis of wetland bird conservation: phylogenetic and spatial analyses. PhD dissertation, University of Bath.
8. Serrano Meneses, Martin Alejandro. 2006. Sexual size dimorphism in dragonflies, damselflies and birds: function and development. PhD dissertation, University of Bath.
7. Szentirmai, István. 2005. Sexual conflict in penduline tit *Remiz pendulinus*. PhD dissertation, Eötvös University, Budapest.
6. Sharpe, Fiona. 2005. Conservation biology of northern lapwing. PhD dissertation, University of Bath.
5. Thomas, Gavin Huw. 2004. Sexual conflict, ecology and breeding systems in shorebirds: phylogenetic analyses. PhD dissertation, University of Bath.
4. Kosztolányi, András. 2003. Costs and benefits of parental care in the Kentish Plover. PhD dissertation, University of Debrecen.
3. Kis, János. 2003. Parental behaviour of Kentish plover and northern lapwing. PhD dissertation, Eötvös University, Budapest.
2. Liker, András. 1998. Mate choice, mating pattern and parental care in the lapwing *Vanellus vanellus*. PhD dissertation, Kossuth University, Debrecen.
1. Barta, Zoltán. 1996. The role of information-transfer in the evolution of colonial breeding. PhD dissertation, Kossuth University, Debrecen.

MSc STUDENTS

I supervised numerous research students, MSc, BSc and diploma dissertations at Bath and elsewhere.

LIST OF PUBLICATIONS

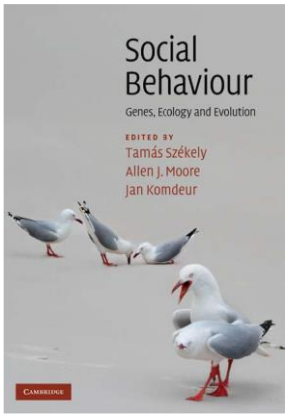
Top 10 publications – a personal selection

10. Kubelka, V., M. Šálek, P. Tomkovich, Zs. Végvári, R. Freckleton & **T. Székely.** 2018. Global pattern of nest predation is disrupted by climate change in shorebirds. ***Science*** 362: 680-683.

9. Remeš, V., R. P. Freckleton, J. Tökölyi, A. Liker & **T. Székely.** 2015. The evolution of parental cooperation in birds. ***Proceedings of National Academy of Sciences, US*** 112: 13603-13608.

8. Pipoly, I., V. Bókony, M. Kirkpatrick, P. F. Donald, **T. Székely*** & A. Liker*. 2015. The genetic sex-determination system predicts adult sex ratios in tetrapods. ***Nature*** 527: 91 – 94. *Equal contribution.

7. **Székely, T.**, F. J. Weissing & J. Komdeur. 2014. Adult sex ratio variation: implications for breeding system evolution. ***Journal of Evolutionary Biology*** 27: 1500-1512.



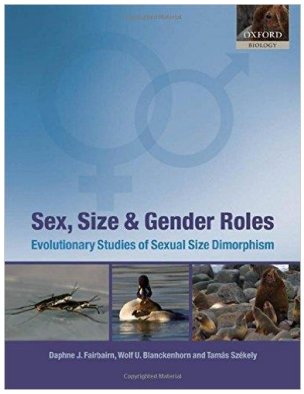
6. Liker, A., R. P. Freckleton & **T. Székely.** 2013. The evolution of sex roles in birds is related to adult sex ratio. ***Nature Communications*** 4: 1587.

5. **Székely, T.**, A. J. Moore & J. Komdeur (eds). 2010. ***Social behaviour: genes, ecology and evolution***. Cambridge University Press, 1-562.

4. Fairbairn, D., W. Blanckenhorn & **T. Székely** (eds). 2007. ***Sex, size and gender roles. Evolutionary studies of sexual size dimorphism.*** Oxford University Press, 1-266.

3. Houston, A. I., **T. Székely** & J. M. McNamara. 2005. Conflict over parental care. ***Trends in Ecol Evol*** 20: 33-38.

2. **Székely, T.,** R. P. Freckleton & J. D. Reynolds. 2004. Sexual selection explains Rensch's rule of size dimorphism in shorebirds. ***Proceedings of The National Academy of Sciences US*** 101: 12224 - 12227.



1. Blomqvist D., M. Andersson, C. Küpper, I. C. Cuthill, J. Kis, R. B. Lanctot, B. K. Sandercock, **T. Székely**, J. Wallander & B. Kempenaers. 2002. Genetic similarity between mates explains extra-pair parentage in three species of waders. ***Nature*** 419: 613-615.

Top 10 publications – last 5 years

10. Schacht, R., S. R. Beissinger, C. Wedekind, M. D. Jennions, B. Geffroy, A. Liker, P. M. Kappeler, F. J. Weissing, K. L. Kramer, T. Hesketh, J. Boissier, C. Uggla, M. Hollingshaus & **T. Székely.** 2022. Adult sex ratios: causes of variation and implications for animal and human societies. ***Communications Biology*** 5: 1273.

9. Amano, T., **T. Székely**, B. Sandel, Sz. Nagy, T. Mundkur, T. Langendoen, D. Blanco, C. U. Soykan, W. J. Sutherland. 2018. Successful conservation of global waterbird populations depends on effective governance. ***Nature*** 553: 199-202.

8. Eberhart-Phillips, L. J, C Küpper*, T. E. X. Miller, M. Cruz-López, K. H. Maher, N. dos Remedios, M. A. Stoffel, J. I. Hoffman*, O. Krüger* & **T. Székely*.** 2017. Adult sex ratio bias in snowy plovers is driven by sex-specific early survival: implications for mating systems and population growth. ***Proceedings of The National Academy of Sciences US*** 114: E5474-E5481. *Joint senior authors.

7. D'Urban Jackson, J., N. dos Remedios, K. H. Maher, S. Zefania, S. Haig, S. Oyler-McCance, D. Blomqvist, T. Burke, M. W. Bruford, **T. Székely*** C. Küpper*. 2017. Polygamy slows down population divergence in shorebirds. ***Evolution*** 71: 1313-1326. *Equal contribution.

6. Bulla, M., M. Valcu… **T. Székely**, T. Piersma, T. Montalvo, V. Loverti, V.-M. Pakanen, W. Tijsen & B. Kempenaers. 2016. Defying the 24-h 1 day: Unexpected diversity in socially synchronized rhythms of shorebirds. ***Nature*** 540: 109-1013.

5. Remeš, V., R. P. Freckleton, J. Tökölyi, A. Liker & **T. Székely**. 2015. The evolution of parental cooperation in birds. ***Proceedings of National Academy of Sciences, US*** 112: 13603-13608.

4. Pipoly, I., V. Bókony, M. Kirkpatrick, P. F. Donald, **T. Székely*** & A. Liker*. 2015. The genetic sex-determination system predicts adult sex ratios in tetrapods. ***Nature*** 527: 91 – 94. *Equal contribution.

3. Liker, A, R. P. Freckleton & **T. Székely**. 2014. Divorce and infidelity are associated with skewed adult sex ratios in birds. ***Current Biology*** 24: 880-884.

2. **Székely, T.,** F. J. Weissing & J. Komdeur. 2014. Adult sex ratio variation: implications for breeding system evolution. ***Journal of Evolutionary Biology*** 27: 1500-1512.

1. Liker, A., R. P. Freckleton & **T. Székely.** 2013. The evolution of sex roles in birds is related to adult sex ratio. ***Nature Communications*** 4: 1587.

Complete list of publications

2023

392. Székely, T., M. C. Carmona-Isunza, N. Engel, N. Halimubieke, W. Jones, V. Kubelka, R. Rice, C. E. Tanner, Z. Tóth, J. O. Valdebenito, K. Wanders & G. C. McDonald. 2023. The causes and implications of sex role diversity in shorebird breeding systems. ***Ibis*** (accepted).

391. Katona, G., F. Szabó, Zs. Végvári, A. Liker, R. P. Freckleton, B. Vági & **T. Székely.** 2023. Evolution of reproductive modes in sharks and rays. ***J Evolutionary Biology*** (accepted).

390. **Székely, T.** 2023. Evolution of reproductive strategies: sex roles, sex ratios and phylogenies. ***Biologia Futura*** thematic volume "*A lifetime devoted to studying evolution and biodiversity – honorary issue dedicated to Prof Zoltán Varga*" (Editors: G. Sramkó, Z. Barta and T. Székely).

389. Ding, P., Z. Song, Y. Liu, **T. Székely**, L. Shi, M. A. Turghan. 2023. Variations in the reproductive strategies of different Charadrius alexandrinus populations in Xinjiang, China. ***Animals*** (accepted).

388. Kiss, Á, Z. Végvári, V. Kubelka, Á. Monoki, I. Kapocsi, S. Gőri & **T. Székely**. 2023. Breeding in an agricultural landscape: conservation actions increase nest survival in a ground-nesting bird. ***Oryx*** (accepted).

387. Engel, N., G. McDonald, B. K. Sandercock, R. Rice, R. Moreno, S. Ratão & **T. Székely**. 2023. Long-term decline in nest survival of a ground-nesting shorebird on a tropical island. ***Global Change Biology*** (accepted).

386. Rincón-Rubio, V. A., T. Székely, A. Liker & A. Gonzalez-Voyer. 2023. Carotenoid-dependent plumage coloration is associated with reduced male care in passerine birds. ***Behavioral Ecology*** (accepted).

385. Liu, J., Z. Chai, H. Wang, A. Ivanov, V. Kubelka, R. Freckleton, Z. Zhang & **T. Székely**. 2023. Egg characteristics vary longitudinally in Arctic shorebirds. ***iScience*** (accepted).

384. Pipoly, P., R. Duffy, G. Mészáros, V. Bókony, B. Vági, **T. Székely** & A. Liker. 2023. Multiple paternity is related to adult sex ratio and sex determination system in reptiles. ***Journal of Evolutionary Biology*** 36: 935–944.

383. Wanders, K., M. Almalki, O. Heggøy, T. Lislevand, C. McGuigan, G. Eichhorn, G. W. Gabrielsen, V. Azarov, L. Khasyanova & **T. Székely**. 2023. Incubation behaviour of the Common Ringed Plover *Charadrius hiaticula* at different latitudes. ***J for Ornithology*** (accepted).

382. Niroshan, J.J, Y. Liu, J. Martinez, P. Que, C. Wei, S. Weerakkody, G. Panagoda, J. Weerasena, **T. Székely**, A. L. Bond, S. S. Seneviratne. 2023. Re-evaluation of the taxonomic status of the 'diminutive' Kentish Plover *Charadrius alexandrinus seebohmi* based on phenotypic and genetic analyses. ***Ibis*** (accepted)

381. Rice, R., M. Hejmadi, H. Silva, R. Kelsh, J. Agues, N. Engel & **T. Székely**. 2023. Environmental education in the classroom: pilot study in Cabo Verde suggests differing impacts on students' local knowledge and environmental attitudes. ***Oryx*** (accepted).

2022

380. Schacht, R., S. R. Beissinger, C. Wedekind, M. D. Jennions, B. Geffroy, A. Liker, P. M. Kappeler, F. J. Weissing, K. L. Kramer, T. Hesketh, J. Boissier, C. Uggla, M. Hollingshaus & **T. Székely.** 2022. Adult sex ratios: causes of variation and implications for animal and human societies. ***Communications Biology*** 5: 1273.

379. Patino-Martinez, J., L. Dos Passos, R. Amador, A. Teixidor, S. Cardoso, A. Marco, F. Koenen, A. Dutra, C. Eizaguirre, E. G. Dierickx, M. Tiwari, **T; Székely**, R. Moreno. 2023. Strategic nest site selection in one of the world's largest loggerhead turtle nesting colonies on Maio Island, Cabo Verde. ***Oryx*** 57: 152-159.

378. Wanders, K., G. Chen, S. Feng, G. Zhang, **T. Székely**, M. W Bruford, Zs. Végvári, G. Eichhorn, A. Urrutia. 2023. Polygamy and purifying selection in birds. ***Evolution*** 77:276-28.

377. McDonald, G. C., I. C. Cuthill, **T. Székely** & A. Kosztolányi. 2023. Remating opportunities and low costs underlie maternal desertion. ***Evolution*** 77: 97-109.

376. Vági, B., D. Marsh, G. Katona, Zs. Végvári, R. P. Freckleton, A. Liker, **T. Székely.** 2022. The evolution of parental care in salamanders. ***Scientific Reports*** 12: 16655.

375. Long, X, Y. Liu, A. Liker, F. J. Weissing, J. Komdeur & **T. Székely**. 2022. Does ecology and life history predict parental cooperation in birds? A comparative analysis. ***Behavioral Ecology & Sociobiology*** 76: 92.

374. McDonald, G. C., Á. Bede-Fazekas, A. Ivanov, L. Crecco, **T. Székely** & A. Kosztolányi. 2022. Landscape and climatic predictors of Kentish Plover (*Charadrius alexandrinus*) distributions throughout Kazakhstan. ***Ibis*** (accepted).

373. Vági, B & **T. Székely.** 2022. Diversity of reproductive strategies in Amphibia. IN: Moreno-Rueda, G. & M. Comas (eds). ***Evolutionary Ecology of Amphibians***. CRC Press, Boc Raton (invited chapter).

372. Zheng, J., E. Zuidema, **T. Székely**, Z. Zhang & J. Komdeur. 2022. A novel function of egg burial: burying material prevents eggs from rolling out of wind-swayed nests. ***Animal Behaviour*** (accepted).

371. Kumari, R, E. A. Fazekas, B. Morvai, E. B. Udvari, F. Dóra, G. Zachar, **T. Székely**, Á. Pogány & Á. Dobolyi. 2022. Transcriptomics of Parental Care in the Hypothalamic-septal 2 Region of Female Zebra Finch Brain. ***International Journal of Molecular Sciences*** (accepted).

370. Song, Z., A. Liker, Y. Liu & **T. Székely.** 2022. Evolution of social organization: phylogenetic analyses of ecology and sexual selection in weavers. ***American Naturalist*** 200: 250-263.

369. Trujillo, N., M. Martínez-Pacheco, C. Soldatini, S. Ancona, R. Young, Y. V. Albores-Barajas, A. H. Orta, C. Rodríguez, **T. Székely**, H. Drummond, A. O. Urrutia & D. Cortez. 2022. Lack of age-related mosaic loss of W chromosome in long-lived birds. ***Biology Letters*** (accepted).

368. Grieves, L. A., M. Gilles, **T. Székely**, I. Cuthill, E. A. MacDougall-Shackleton & B. Caspers. 2022. Olfactory camouflage and communication in birds. ***Biological Reviews*** (accepted).

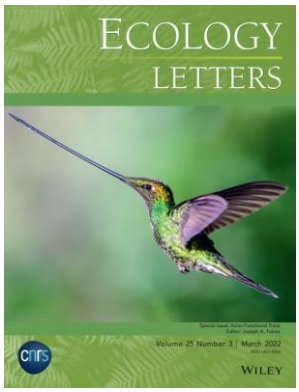
367. Cooney, C. R., Y. He, Z. K. Varley, L. O. Nouri, C. J. A. Moody, M. D. Jardine, A. Liker, **T. Székely** & G. H. Thomas. 2022. Latitudinal gradients in avian colourfulness. ***Nature Ecology & Evolution*** (accepted).

366. Valdebenito, J. O., K. H. Maher, G. Zachar, Q. Huang, Z. Zhang, L. J. Young, **T. Székely**, P. Que, Y. Liu & A. O. Urrutia. 2022. Sex differences in immune gene expression in the brain of a small shorebird. ***Immunogenetics*** 74:487-496.

365. Kubelka, V., B. K. Sandercock, **T. Székely** & R. P. Freckleton. 2021. Animal migration to northern latitudes: environmental changes and increasing threats. ***Trends in Ecology & Evolution*** 37: 30-41.

2021

364. Kosztolányi, A., Z. Tóth, V. Kubelka, F. Takács & **T. Székely**. 2021. File structure and definition of variables for the OBM Global Plover Database. ***Unpublished report, University of Debrecen, Hungary***.



363. Orta, A. H., S. J. Bush, M. Gutiérrez-Mariscal, S. Castro-Obregón, L. Jaimes-Hoy, R. Grande, G. Vázquez, E. Gorostieta-Salas, M. Martínez-Pacheco, K. Díaz-Barba, P. Cornejo-Páramo, A. Sanchez-Flores, **T. Székely**, A. O. Urrutia & D. Cortez. 2021. Rats exhibit age-related mosaic loss of chromosome Y. ***Communications Biology*** 4:1.

362. Wei, C., M. Schweizer, P. Tomkovitch, V. Y. Arkhipov, M. Romanov, J. Martinez, X. Lin, N. Halimubieke, P. Que, T. Mu, Q. Huang, Z. Zhang, **T. Székely** & Yang Liu. 2021. Genome-wide data reveals paraphyly in the sand plover complex (*Charadrius mongolus/leschenaultii*). ***Ornithology*** 139: 1-10.

361. **Székely, T.**, Liker, A., Thomas, G. H., Brett, N., Brooks, G., Capp, E., Engel, N., Hodges, S., Hughes, E., Krystalli, A., Lislevand, T., Mapp, A., Pipoly, I., Rice, R., Rossi, L., Komdeur, J., Krüger, O., Gonzalez-Voyer, A. 2022. Sex roles in birds: influence of climate, life histories and social environment, Dryad Dataset https://doi.org/10.5061/dryad.fbg79cnw7

360. Gonzalez-Voyer, A., G. H. Thomas, A. Liker, O. Krüger, J. Komdeur & **T. Székely**. 2022. Sex roles in birds: phylogenetic analyses of the influence of climate, life histories and social environment. ***Ecology Letters*** 25:647–660.

359. Jones, W., L. J. Eberhart-Hertel, R. Freckleton, J. I. Hoffman, O. Krüger, B. K. Sandercock, O. Vincze, S. Zefania & **T. Székely**. 2021. Exceptionally high apparent adult survival in three tropical species of plovers in Madagascar. ***Journal of Avian Biology*** 1-10.

358. Fresneau, N., Y. Lee, W-C Lee, A. Kosztolányi, **T. Székely** & A. Liker. 2021. Sex role reversal and high frequency of social polyandry in the pheasant-tailed jacana (*Hydrophasianus chirurgus*). ***Frontiers in Ecology & Evolution*** 9:742588.

357. Halimubieke, N., A. Pirrie, **T. Székely** = B. Ashby. 2021. Corrigendum to "How do biases in sex ratio and disease characteristics affect the spread of sexually transmitted infections?" ***J. Theor. Biol.*** 527: 110832.

356. Patino-Martinez, J., L. Dos Passos, I. O. Afonso, A. Teixidor, M. Tiwari, **T. Székely** & R. Moreno. 2022. Globally important refuge for the loggerhead sea turtle: Maio Island, Cabo Verde. ***Oryx*** 56: 54-62.

355. Mokos, J., I Scheuring, A. Liker, R. P. Freckleton & **T. Székely**. 2021. Degree of anisogamy is unrelated to the intensity of sexual selection. ***Scientific Reports*** 11: 19424.

354. Halimubieke, N., A. Pirrie, **T. Székely** & B. Ashby. 2021. How do biases in sex ratio and disease characteristics affect the spread of sexually transmitted infections? ***Journal of Theoretical Biology*** 527: 110832.

353. **Székely, T**. 2021. Darwin got sexual selection backwards, research suggests. ***The Conversation***, 17 June 2021.

352. Wang, Z., J. Zhang, X. Xu, C. Witt, Y. Deng, G. Chen, G. Meng, S. Feng, **T. Székely**, G. Zhang & Q. Zhou. 2021. Phylogeny, transposable element and sex chromosome evolution of the basal lineage of birds. ***Journal of Genetics and Genomics*** (accepted).

351. Feng, S., J. Stiller …. A. Urrutia , **T. Székely**, Y. Liu, …… F. Lei, C. Rahbek, M. T. P. Gilbert, G. Graves, E. Jarvis, B. Paten & G. Zhang. 2021. Author correction: Dense sampling of bird diversity increases power of comparative genomics. ***Nature*** 592: E24.

350. Liker, A, V. Bókony, I. Pipoly, J-F Lemaitre, J-M Gaillard, **T. Székely**, R. P. Freckleton. 2021. Evolution of large males is associated with female-skewed adult sex ratios in amniotes. ***Evolution*** 75: 1636-1649.

349. Szemán, K, A. Liker & **T. Székely**. 2021. Social organization in ungulates: revisiting Jarman's hypotheses. ***Journal of Evolutionary Biology*** 34: 604-613.

348. Zheng, J., J. Komdeur, **T. Székely**, M. A. Versteegh, D. Lid, H. Wang & Z. Zhang. 2021. Males and females of a polygamous songbird respond differently to mating opportunities. ***Behavioral Ecology & Sociobiology*** 75: 72.

347. Katona, G., B. Vági, Z. Végvári, A. Liker, R. P. Freckleton, V. Bókony & **T. Székely**. 2021. Are evolutionary transitions in sexual size dimorphism related to sex determination in reptiles? ***Journal of Evolutionary Biology*** 34: 594-603.

346. D'Urban Jackson, J, S. Zefania & **T. Székely**. 2021. Madagascar jacana, *Actophilornis albinucha*. Goodman, S. M. (ed.) (in press). ***The new natural history of Madagascar.*** Princeton, Princeton University Press.

345. Zefania, S. & **T. Székely**. 2021. Charadrius, plovers. Goodman, S. M. (ed.) (in press). ***The new natural history of Madagascar***. Princeton, Princeton University Press.

2020

344. Valdebenito, J. O., N. Halimubieke, Á. Z. Lendvai, J. Figuerola, G. Eichhorn & **T. Székely**. 2021. Seasonal variation in sex-specific immunity in wild birds. ***Scientific Reports*** 11: 1349.

343. Kupán, K., **T. Székely**, M. Cruz-López, K. Seymour & C. Küpper. 2020. Offspring desertion with care? Chick mortality and plastic female desertion in Snowy Plovers. ***Behavioral Ecology*** 32: 428-439.

342. Valdebenito, J.O., A. Liker, N.Halimubieke, J. Figuerola & T. Székely. 2020. Mortality cost of sex-specific parasitism in wild bird populations**.** ***Scientific Reports*** 10: 20983.

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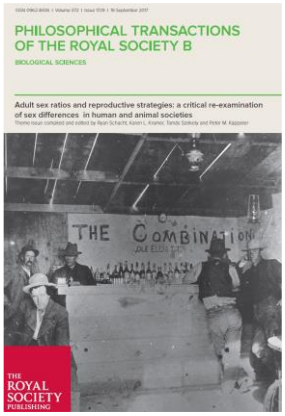

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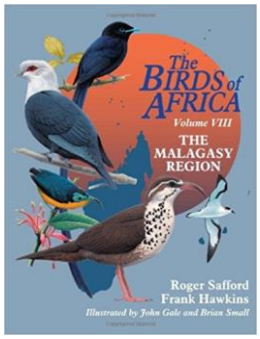

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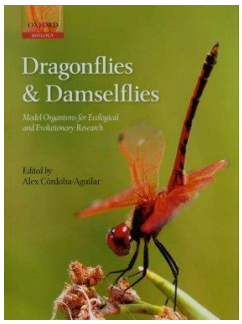

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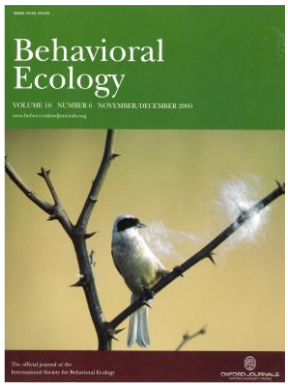

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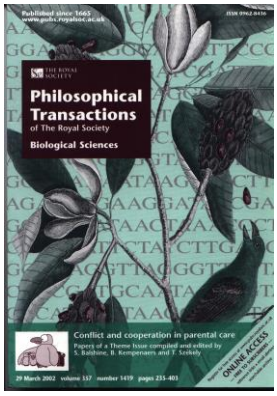

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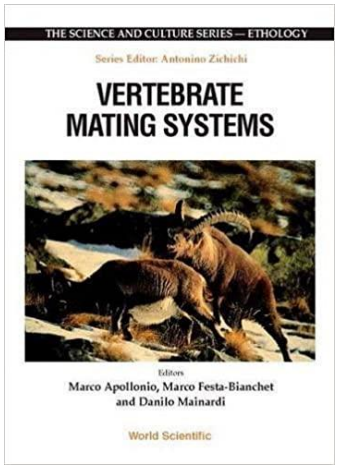

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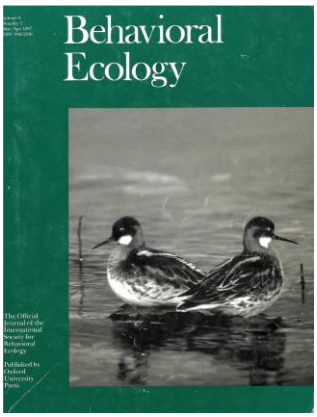

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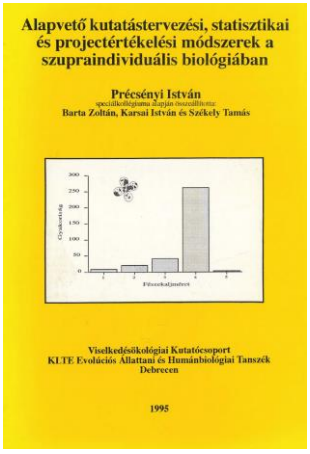

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