

Scientific Recognition: Evolution and Ecology

Awards

Åke Brännström

- Head of Department of Mathematics and Mathematical Statistics, Umeå University, Sweden, July 2018

Christina Kaiser

- European Research Council (ERC) consolidator grant, November 2018

Elizabeth Tellez-Leon

- Distinction of National Researcher, Level I, National System of Researchers, National Council of Research and Technology (CONACYT), Mexico, December 2018

Invited lectures

Åke Brännström

- Resource competition and conditions for species richness. First symposium in Speciation 2018, Uppsala University, Uppsala, Sweden, April 2018
- Adaptive dynamics for spatially-structured populations. International conference in Models in Population Dynamics, Ecology, and Evolution (MPDEE'18), University of Leicester, Leicester, UK, April 2018
- Adaptive dynamics for spatially-structured populations. Research program on Mathematical Biology, Mittag-Leffler Institute, Stockholm, Sweden, October 2018

Ulf Dieckmann

- Systems-analysis training for young scientists in South Africa. Seventh Austrian Internationalization Round Table, Austrian Research Promotion Agency (FFG), Vienna, Austria, January 2018
- Introduction to the Evolution and Ecology Program (EEP) at IIASA. First OECD-IIASA Task Force Meeting on Systems Thinking, Anticipation and Resilience, Organisation for Economic Co-operation and Development, Paris, France, January 2018
- Development of an Interdisciplinary Foundation Course on Systems Thinking and Introduction to IIASA. International Expert Meeting on the Development of the Program on Systems Thinking and the Masters Curriculum on Global Challenges and Human Responses, University of Koblenz-Landau, Landau, Germany, June 2018
- Modeling Eco-Evolutionary Dynamics: An Integrative Overview. 2018 Annual Meeting of the Society for Mathematical Biology (SMB) and the Japanese Society for Mathematical Biology (JSMB), Recent Progress in Evolutionary Theory: Coevolution, Diversity, and Networks mini-symposium, Sydney, Australia, July 2018
- Understanding Complex Adaptive Systems at the Interface of Ecology and Evolution and Social Norms and the Evolution of Cooperation. 8th Annual Meeting of Theoretical Ecology in China, Lushan, China, August 2018
- Complex Adaptive Systems at the Interface of Ecology and Evolution, Statistical Physics, and Social Dynamics. Okinawa Institute of Science and Technology Graduate University, Tancha, Japan, December 2018

Mikko Heino

- Marine ecosystem and fisheries management. Biological and Other Natural Resource Management in a Rapidly Changing Arctic summer school, University of Alaska, Fairbanks, USA, August 2018
- Joint Stakeholder Satisfaction – a way forward toward reducing stakeholder conflicts in resource management? Bren School of Environmental Science and Management, University of California, Santa Barbara, USA, December 2018

Mateusz Iskrzyński

- Ecosystem vulnerability to species loss: Evidence from a study of 245 empirical food webs. Seminar, Systems Research Institute of the Polish Academy of Sciences, Warsaw, Poland, November 2018
- Ecosystem vulnerability to species loss: A broad study of real-world food webs. Complex Systems Society Conference on Complex Systems (CCS), Thessaloniki, Greece, September 2018
- Ecosystem vulnerability to species loss: A broad study of real-world food webs. Conference on Ecological Networks (EcoNet) – a satellite event at the Network Science Society Conference on Network Science (NetSci), Paris, France, June 2018

Christina Kaiser

- Self-organization and emergent phenomena of the soil microbial decomposer system. Rethinking Soil Carbon Modeling workshop, Science and Study Center Raitenhaslach, Technical University Munich, Germany, October 2018
- Individual-based modeling of C and N turnover in soils. International workshop MicroSoil, Saint-Loup Lamairé, France, June 2018

Bushra Khalid

- Riverine flood assessment in connection with summer monsoon rainfall over Upper Indus Basin Region of Pakistan. 17th CAS-TWAS-WMO Forum on Climate Science (CTWF), International Symposium and workshop on Ecohydrology and Climate Change, Beijing, China, September 2018

Johan A.J. Metz

- Conflict between alleles and modifiers in the evolution of genetic polymorphisms. Keynote lecture, International conference in Models in Population Dynamics, Ecology, and Evolution (MPDEE'18), University of Leicester, Leicester, UK, April 2018
- Finite dimensional state representations of physiologically structured populations. Populations: Interactions and evolution conference. Institut Henri Poincaré, Paris, France, September 2018
- Conditions for the ODE reducibility of physiologically structured population models. Research program on Mathematical Biology, Mittag-Leffler Institute, Stockholm, Sweden, November 2018

Chai Molina

- Evolutionary game theory in realistic populations. Department of Mathematical and Statistical Sciences, University of Alberta, Edmonton, Canada, January 2018
- Reducing greenhouse gas emissions using international matching agreements. Department of Epidemiology, Johns Hopkins University, Baltimore, US, May 2018

Kalle Parvinen

- The effect of spatial heterogeneity on evolution in spatial models. Finnish Mathematical Days – Joint European Mathematical Society (EMS) - Finnish Mathematical Society (FMS) - European Society for Mathematical and Theoretical Biology (ESMTB) Mathematical Weekend, University of Eastern Finland, Joensuu, Finland, January 2018
- Evolution of dispersal in metapopulation models. Department of Mathematics, University of Vienna, Vienna, Austria, March 2018
- Evolution of dispersal in metapopulation models. International conference in Models in Population Dynamics, Ecology, and Evolution (MPDEE'18), University of Leicester, Leicester, UK, April 2018
- Adaptive dynamics: Understanding evolution by natural selection using mathematical modelling. BioCity Turku, Turku, Finland, May 2018
- The effect of spatial heterogeneity on evolution in spatial models. 11th European Conference on Mathematical and Theoretical Biology, Lisbon, Portugal, July 2018
- Evolution of dispersal in metapopulation models. Research program on Mathematical Biology, Mittag-Leffler Institute, Stockholm, Sweden, November 2018

Akira Sasaki

- Evolution of Multiplicity of Infection (MOI) of viruses. 2nd Workshop on Theoretical Immunology, Toyama City Center, Toyama, Japan, February 2018
- Cell to cell infection and the emergence of multiple resistant viruses. Symposium at the Ecological Society of Japan Annual Meeting, Hokkaido University, Sapporo, Japan, March 2018
- R0 centrality based control of epidemic diseases in metapopulation networks. Meiji Institute for Advanced Study of Mathematical Sciences (MIMS), Center for Mathematical Modeling and Applications (CMMA) mini-workshop: Mathematical Analysis of Spatial and Evolutionary Epidemiology, Meiji University, Tokyo, Japan, March 2018
- Predicting the evolutionary trajectory of influenza virus antigenicity. Japan Agency for Medical Research and Development (AMED), Japanese Initiative for Progress of Research on Infectious Disease for global Epidemic (J-PRIDE) workshop, Tokyo, Japan, June 2018
- R0 centrality based control of infectious diseases in the commute network of Tokyo metropolitan area. Plenary talk, 6th International Conference on Mathematical Biology, Beijing, China, June 2018
- R0 centrality in metapopulation networks: Finding the epidemiological and evolutionary hotspots. 2018 Annual Meeting of the Society for Mathematical Biology (SMB) and the Japanese Society for Mathematical Biology (JSMB), Recent Progress in Evolutionary Theory: Coevolution, Diversity, and Networks mini-symposium, Sydney, Australia, July 2018
- Cell-to-cell infection to promote fitness-valley-crossing evolution in viruses? Virus Dynamics workshop, Tokyo University, Tokyo, Japan, November 2018

Karl Sigmund

- Social evolution leads to the recurrence of corruption. University of Turin, Turin, Italy, July 2018
- Social evolution leads to the recurrence of corruption. Workshop, Turku, Finland, August 2018

Elizabeth Tellez-Leon

- Are all types of capital flows driven by the same factors? Evidence from Mexico. University of Vienna, Vienna, Austria, October 2018
- Which network measures explain the interest rate spread in the Mexican secured and unsecured interbank markets? An econometric analysis of financial networks. University of Vienna, Vienna, Austria, October 2018

Organized Events

Ulf Dieckmann

- Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES) core-group meeting, IIASA, Laxenburg, Austria, February 2018
- Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES) core-group meeting, IIASA, Laxenburg, Austria, October 2018
- 2018 Annual Meeting of the Society for Mathematical Biology (SMB) and the Japanese Society for Mathematical Biology (JSMB), Recent Progress in Evolutionary Theory: Coevolution, Diversity, and Networks mini-symposium, Sydney, Australia, July 2018

Mikko Heino

- Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES) core-group meeting, IIASA, Laxenburg, Austria, February 2018
- Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES) core-group meeting, IIASA, Laxenburg, Austria, October 2018

Johan A.J. Metz

- Honours course Crises in Biology: Animal Life from the Late Precambrian to the Emergence of Land Life, Faculty of Science, Leiden University, Field part of the course, Roscoff, France, August 2018

Akira Sasaki

- 2018 Annual Meeting of the Society for Mathematical Biology (SMB) and the Japanese Society for Mathematical Biology (JSMB), Recent Progress in Evolutionary Theory: Coevolution, Diversity, and Networks mini-symposium, Sydney, Australia, July 2018
- 2018 Annual Meeting of the Society for Mathematical Biology (SMB) and the Japanese Society for Mathematical Biology (JSMB), Host-parasite Coevolution in Space mini-symposium, Sydney, Australia, July 2018 (co-organizer)

Advisory boards

Ulf Dieckmann

- Chair-invited Member, Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES), Denmark

Mikko Heino

- Member, Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES), Denmark

Bruno Ernande

- Scientific Committee Member, Center for Biodiversity Synthesis and Analysis (CESAB), France
- Chair, Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES), Denmark

Johan A.J. Metz

- Steering Committee Member, Bioscience Initiative, Leiden University, Netherlands
- Council Member, European Society for Evolution and Development, Netherlands

Editorships

Åke Brännström

- Review Editor, *Frontiers in Ecology and Evolution*

Ulf Dieckmann

- Associate Editor, *Journal of Evolutionary Medicine*

Bruno Ernande

- Subject Editor, *Oikos Journal*

Mikko Heino

- Editor, *Ecology Letters*
- Editor, *ICES Journal of Marine Science*

Christina Kaiser

- Editorial Board Member, *Soil Biology and Biochemistry*
- Guest Associate Editor, Research topic on Rhizosphere functioning and structural development as complex interplay between plants, microorganisms and soil minerals, *Frontiers in Microbiology*

Johan A.J. Metz

- Editorial Board Member, *Acta Biotheoretica*