

Simon Kapitza

Quantitative & Applied Ecology Group (QAEco)
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I am a global change ecologist researching interactions between socioeconomic and biophysical drivers of biodiversity change. My key strength is in interdisciplinary thinking to understand, capture and predict the impact of global transitions of the anthropocene on ecosystems, biodiversity and species.

Skills

Data Analysis	Proficient R user with experience in knitr, sweave, and RMarkdown, as well as integration of basic C++ via the RCpp package. Particularly experienced with very large spatial data sets and parallel processing (MaxEnt, Regression Trees, Linear Mixed Models). GitHub for version control. Intermediate experience with Python, SQL, ArcGIS, QGIS.
Leadership skills	Initiating and leading interdisciplinary research in our most recent project. Currently planning research collaborations with institutes in Europe, with three scheduled seminars.
Languages	German ●●● English ●●● Spanish ●●○ French ●○○

Education

2017 - present	PhD - Science <i>University of Melbourne</i> Supervisors: Prof Brendan Wintle, Dr Nick Golding Project: Global integrated assessment of biophysical and socioeconomic drivers of biodiversity change
2013 - 2016	MSc - Environmental Sciences (High Distinction) , <i>Albert-Ludwigs-Universitaet Freiburg</i> Supervisors: Prof Carsten Dormann, Prof Brendan Wintle Project: Alleviating climate change uncertainty through improved modelling: Australian Great Desert Skinks under a changing fire regime (in collaboration with QAEco)
2009 - 2013	BSc Hon - Environmental Science and Politics <i>University of Stirling</i> Supervisor: Prof Daisy Dent Project: Rural Livelihoods in Changing Contexts: Causes and Impacts of Deforestation in Ta Veaeng District, Cambodia
2011 - 2012	Study Abroad <i>University of Sydney</i>

Presentations

2019	Predicting fractional land-use maps Friends of the Madingley model meeting, University of Cambridge The economy, climate change and biodiversity Centre of Biodiversity and Environment Research seminar, University College London Department of Biogeography colloquium, Humboldt University of Berlin
2018	Integrating drivers of change: an assessment of bio-physical and socio-economic climate change impacts on species habitat Ecological Society of Australia Conference, Brisbane British Ecological Society Annual Meeting, Birmingham Accounting for socio-economic impacts in biodiversity modelling British Ecological Society Quantitative Ecology Spatial Interest Group conference, St. Andrews Assessing direct and indirect impacts of climate change on bird habitat Poster, International Statistical Ecology Conference, St. Andrews Indirect impacts of climate change on future bird habitat in Vietnam and Australia PhD confirmation seminar, School of BioSciences, University of Melbourne Comparing the biophysical and economic impacts of climate change on biodiversity Visiting scholar seminar, Helmholtz Institute for Zoology and Wildlife Research, Berlin
2017	Accounting for socioeconomic drivers of biodiversity change: A novel integrated assessment framework Seminar, Quantitative & Applied Ecology Group, University of Melbourne
2016	Alleviating climate change uncertainty through improved modelling: Great Desert Skinks under a changing fire regime MSc completion seminar, School of BioSciences, University of Melbourne

Workshops

2019	CBRI Grand Challenges University of Melbourne Computational Biology Research Initiative
2018	Spatial Point Pattern Analysis Australian Research Council Centre of Excellence for Mathematical and Statistical Frontiers Combining Different Data Types In a Single Model International Statistical Ecology Conference 2018

Publications

Kapitza, S., Ha, P. V., Golding, N., Kompas, T., Cadenhead, N. C. R., Bal, P., Wintle, B.A., Assessing biophysical and socio-economic impacts of climate change on biodiversity (under review)
Kapitza, S., Golding, N., Improved spatially-explicit land-use change modelling to predict future land use and biodiversity outcomes (in prep)
Kapitza, S., Cadenhead, N., Wintle, B., Alleviating climate change uncertainty through improved modelling: Great Desert Skinks under a changing fire regime (in prep)

Awards and scholarships

2019	David H Ashton Scholarship (AUD 2900)
2018	Wiley Award for Best Poster , International Statistical Ecology Conference, St. Andrews Science Abroad Travelling Scholarship , University of Melbourne (AUD 1500) Financial Support for Research or Conference Travel , University of Melbourne (AUD 2000) Drummond Travel Award (AUD 1500)
2017	Australian Research Council Discovery top-up grant (AUD 21,000) Melbourne International Research Scholarship (AUD 120,000)
2015	DAAD PROMOS Scholarship grant (2300 EUR)

Academic activities

2019	BES2019 Thematic Session: Interdisciplinary model integration to better understand spatio-temporal changes in biodiversity , Co-organiser, session chair
2019 - present	Ecology and Evolution PhD Program
2019	Orygen Youth Health International Student Welfare Project Peer leader
2018 - present	Interdisciplinary PhD Program in Refugee and Forced Migration Studies
2018 - present	British Ecological Society Quantitative Ecology Special Interest Committee member
2017 - present	QAEco Diversity and Inclusion Group Committee member
2017	QAEco mentoring scheme Co-organiser
2015 - 2016	Staff-Student Consultative Committee, University of Freiburg Student rep

Professional experience

2016 - present	Research Assistant Dr Luke Kelly and Prof Brendan Wintle (University of Melbourne)
2014 - 2015	Research Assistant Fraunhofer Institute for Solar Energy Systems
2012 - 2013	Social Media Manager Creative Stirling
2012	Intern German Embassy Colombo
2011	Intern German Agro Action e.V. Cambodia
2008 - 2009	Workshop Coordinator Youth Educational Institute Jugendbildungsstaette Juist

Societies

British Ecological Society, Ecological Society of Australia, BUND (Friends of the Earth Germany)

Referees

Prof Brendan Wintle MSc and PhD supervisor Director NESP Threatened Species Recovery Hub University of Melbourne and University of Queensland brendan.wintle@unimelb.edu.au	Dr Nick Golding PhD Supervisor Research Fellow QAEco University of Melbourne nicholas.golding@unimelb.edu.au
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Melbourne, June 19, 2019
Simon Kapitza