

Christopher Trisos


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 @christrisos

PROFILE

Ecologist, doing actionable science to help both people and the planet. Recognising environmental problems are social problems, I am working to change how research is done by opening a science synthesis centre in Africa, where scholars, communities and decision-makers work in teams to solve complex social and environmental problems.

WORK EXPERIENCE

Postdoc Scientist, National Socio-Environmental Synthesis Center 2015-current

Research: I focus on understanding links between humans and ecosystems. My research projects ask: What are the potential impacts of climate engineering technologies on biodiversity? Do cities help or harm biodiversity? How do we combine ecology and economics to sustainably manage connected human and ecological systems?

Postdoc Scientist, South African Environmental Observation Network 2014-2015

Research: Analysed the ecology of South African plant biodiversity in fire-prone ecosystems.

Treasurer, Rhodes Scholars Southern African Forum 2010

Selected grantees and paid grants to NGOs creating positive social and environmental change.

EDUCATION

PhD Zoology University of Oxford 2009-2014

Thesis research: Explaining past and present bird biodiversity across South America.

MSc. Integrative Bioscience University of Oxford 2008-2009

BSc. Ecology & Economics University of Cape Town 2006

SELECTED AWARDS

Rhodes Scholarship (South Africa) 2008-2014

Awarded for academic excellence, leadership and commitment to service in South Africa.

South African National Research Foundation Scholarship 2012-2014

Wingate Scholarship 2010

Awarded for proven excellence in scientific research.

SELECTED SYNTHESIS AND SCIENCE POLICY

Lead scientist and research team lead, Cross-Disciplinary Statistics for The 2017

Anthropocene, \$50,000 team science award from USA National Science Foundation.

Co-lead and Co-developer, Socio-Environmental Immersion Program 2017

The program integrates social and environmental disciplines, and trains researchers to do actionable, policy-relevant science at the National Socio-Environmental Synthesis Center.

Christopher Trisos

- Invited Participant**, United Nations Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services “*New visions for nature and people in the 21st century*”. 2017
- Lead facilitator**, *sUrBioCity*, interdisciplinary team science project to understand biodiversity in cities, German Synthesis Centre for Biodiversity Sciences (sDiv). 2017
- Participant**, *Narco-deforestation*, interdisciplinary team science project to map connections between the drug trade, drug enforcement and deforestation. 2017
- Invited Participant**, *Centre for Open Science*, workshop making recommendations for improving transparency and reproducibility in ecology and evolution research. 2015
- Invited Participant**, *Open Science for Synthesis*, training for open, collaborative and reproducible research at National Centre for Ecological Analysis and Synthesis, USA. 2014

SELECTED ACADEMIC PUBLICATIONS

[GOOGLE SCHOLAR PROFILE](#)

- Trisos, CH**, Amatulli, G, Gurevitch, J. et al. (Accepted) ***Potentially Dangerous Consequences for Biodiversity of Solar Geoengineering Implementation and Termination***. *Nature Ecology and Evolution*. **Research used in IPCC special report on Global Warming of 1.5°C.
- Trisos, CH**, Gabriel, C, Robock, A. et al. (Accepted) ***Ecological, Agricultural and Health Impacts of Solar Geoengineering***. In *Resilience: The Science of Adaptation to Climate Change*. Zommers and Alverson (eds.).
- Fiorella, KJ., Rapacciuolo, G. and **Trisos, CH**. 2016. ***Species loss: learn from health metrics***. *Nature*, 538(7625).
- Parker, TH., Nakagawa, S, Gurevitch, J & IIEE (Improving Inference in Evolutionary Biology and Ecology) **workshop authors***. 2016. ***Promoting transparency in evolutionary biology and ecology***. *Ecology Letters* 19.7 (2016): 726-728. * Workshop participating author
- Trisos, CH**, Petchey, O & Tobias, JA. 2014. ***Unravelling the complex interplay of community assembly processes acting on multiple niche axes across spatial scales***. *American Naturalist* 184:593-608.

SELECTED INVITED TALKS

- Climate velocities from solar geoengineering: potential biodiversity impacts*. **Harvard University, Rutgers University, and American Geophysical Union Fall Meeting**.
- Ecological, agricultural and health impacts of solar geoengineering*. **Good Hope for Earth Sciences International Meeting, Cape Town**.
- Global biodiversity monitoring for ecosystem services*. National Socio-Environmental Synthesis Center Seminar, **University of Maryland**
- Why do birds live where they do, in Peru?* **South African National Biodiversity Institute**.

SCIENCE COMMUNICATION PROFESSIONAL SERVICE

- [Why Africa needs a synthesis centre](#), article in *The Conversation* 2017
- Science Café*, speaker Washington, D.C. and Fresno 2016
- Open Streets: I'm a Scientist, ask me a question*, organiser Cape Town 2015
- Flash Seminars: Pop-up science discussions*, speaker and organiser Cape Town 2015
- 'Dance your PhD' winning team* hosted by *Science* (vimeo.com/77304026) 2014
- PhD research video (vimeo.com/16195743) 2010