

L A U R A K E H O E

SUMMARY

Mission Statement: To find creative ways to balance human well-being & wildlife conservation

Founder 400trees.org +75 thousand trees planted in agro-ecological projects on degraded land

PostDoc (2016-present) *Conservation Decision Science* (UVic & UBC)

PhD Researcher (2012-2016) *The Influence of Land Use on Biodiversity* (HU, Berlin)

MSc (2010) *Wildlife Biology and Conservation* (Edinburgh Napier University)

BSc (2009) *Psychology through Science* (NUI, Maynooth, Ireland)

Experience in: Spatial analysis & modeling of large datasets, simultaneous autoregressive models, Bayesian statistics, expert elicitation, stakeholder workshop design & implementation, communications, outreach, project management, moderation techniques, environmental education, wildlife tagging & tracking, camera trapping.

Nationality: Irish

PROFESSIONAL SKILLS

Languages: English (native), Spanish (fluent), German & French (intermediate), Italian & Portuguese (basic), Irish (embarrassingly bad)

Coding & Design: R, ArcGIS, Q-GIS, Photoshop, Adobe InDesign, Illustrator, AutoCad

PROFESSIONAL EXPERIENCE

- 2012 – 2016 Conservation Biogeography Lab, Humboldt University, Berlin, Germany
Doctoral Researcher (Supervised by Prof. Tobias Kuemmerle)
- Researching global land use change and related biodiversity loss
- Spring 2015 Princeton University, NJ, USA
Visiting Researcher (collaborating primarily with Dr Lyndon Estes)
- Collaboration on models of future global land-use impacts
- 2011 – 2012 Kino Bay Center for Cultural and Ecological Studies, Sonora, Mexico
Communications and Research Fellow
- Organised stakeholder workshops to discuss new approaches towards more sustainable small-scale fishing and large-scale shrimp trawling practices
 - Marine ecological research including whale mark-recapture studies, nesting success of endangered avian species and by-catch rates on shrimp trailers
- 2010 – 2011 Max Planck Institute, Wild Chimpanzee Foundation (WCF) and Guinea Alumina Corp.
Site Manager for Pan Africa Chimpanzee Collaborative Research Site
- Set-up a temporary research site and collected audio, visual (Bushnell), phenological, isotopic, genetic, nutritional and behavioural data
 - Organised community evenings in local villages to find solutions to local problems e.g. discussing more efficient and sustainable agricultural practices

- Presented to and discussed with Government officials and representatives of the World Bank the regional conservation issues and their potential solutions

Summer 2010

Wildcliff Nature Reserve, Western Cape, South Africa

Independent Researcher (Master's Thesis)

- Studied the effect of invasive black wattle (*Acacia mearnsii*) on biodiversity

PEER-REVIEW ARTICLES

Estes, LD, Searchinger, T, Spiegel, M, Tian, D, Sichinga, S, Mwale, M, **Kehoe, L**, et al. Reconciling agriculture, carbon, & biodiversity in a savanna transformation frontier (2016) *Proc. R. Soc. B* (in press).

Ritchie, E, Dorresteijn, I, Schultner, J, Nimmo, D, Hanspach, J, Kuemmerle, T, **Kehoe, L** & Fischer, J (2016) Crying wolf: limitations of predator-prey studies need not preclude their salient messages. *Proc. R. Soc. B* (in press).

Kühl, H, Kalan, A, Arandjelovic, M, Aubert, F, D'auvergne, L, Goedmakers, A, Jones, S, **Kehoe, L**, et al. (2016) Chimpanzee Accumulative Stone Throwing, *Nature Scientific Reports* (6), 22219.

Kehoe, L, Kuemmerle, T, Meyer, C, Levers, C, Václavík, T, & Kreft, H (2015) Global Patterns of agricultural land-use intensity and vertebrate diversity. *Diversity and Distributions* 21 (11), 1308-1318.

Dorresteijn, I, Schultner, J, Ritchie, E, Nimmo, D, Hanspach, J, Kuemmerle, T, **Kehoe, L** & Fischer, J (2015) Incorporating anthropogenic effects into trophic ecology: predator-prey interactions in a human-dominated landscape. *Proc. R. Soc. B* 282 (1814), 1602.

Articles submitted or in prep:

Kehoe, L, Senf, C, Meyer, C, Gerstner, K, Kreft, H & Kuemmerle, T (in review in *Ecography*) Agriculture rivals biomes in predicting global species richness.

Kehoe, L, Newbold, T, Polaina, E & Kuemmerle, T (in prep) Nature at risk: Global hotspots of biodiversity loss due to pathways of agricultural expansion and intensification.

Polaina, E, González-Suárez, M, Kuemmerle, T, **Kehoe, L** & Revilla, E (in prep) Diverse implications of land-use extent & intensity for mammalian conservation across the world.

SELECTED POPULAR MEDIA

Kehoe, L (2016) "Can we feed the world and stop deforestation? Depends what's for dinner", published in news outlets such as *the Conversation*, *the Ecologist*, *IFLS*

Kehoe, L (2016) "Mysterious new behaviour discovered in our closest living relatives", published in many outlets including: *the Guardian* (print & online), *the Conversation*, *Scientific American*, *CNN*. Also conducted numerous radio interviews (*BBC*, *Radio Wolfgang*, *Irish Newstalk*) & will appear on *Nature's Weirdest Events* on BBC2

Kehoe, L (2015) "Meet the World's Most-Traded, Least-Known Mammal", blog '*the Walking Artichoke*' reposted in *Mongabay* and *IFLS* (over 250,000 article likes)

Rust, N. & **Kehoe, L**. (2015) "Could the Pill save the Polar Bear?" *The Conversation* – reposted in 6 other large media outlets including *Quartz* magazine (over 200,000 article views)

SELECTED PRESENTATIONS

UNEP-WCMC collaboration, Cambridge, UK, 2015 (20 min. talk and 40 min. discussion)
ICCB Conference, Montpellier, France (poster)
Wilcove Lab Visit, Princeton University, 2015 (20 min. talk)
International Biogeography Society, Bayreuth, Germany, 2015 (15 min. talk)
Food Security and Biodiversity Conference, Aix en Provence, France, 2014 (poster)
Global Land Project Conference, Berlin, 2014 (15 min. talk)
Leichhardt Symposium (5 min. talk) & **Possingham Lab Visit**, 2013 (15 min. talk), UQ, Australia
World Bank Meeting, Republic of Guinea, 2011 (30 min. talk and 30 min discussion)

TEACHING

Undergraduate Courses: I have developed and taught courses in Applied Conservation Biogeography in R, Conservation Biogeography, and Field Methods in Biogeography.

GRANTS, COURSES, ACHIEVEMENTS AND HOBBIES

2015 - Present **Founder of 400trees.org**– I calculated the overall number of trees lost to deforestation divided by the number of people on earth, and realised that we are all missing 400 trees. Spurred by this number and the simplicity of the idea, I created and co-designed a website and teamed up with ‘Trees for the Future’ to allow the public to easily plant their 400 ‘missing’ trees on previously degraded land as part of agro-ecological small-holder farms. So far, my campaign has planted over 65 thousand trees and been featured in Treehugger.com, 100 Projects for the Climate and various German news sites.

2015 **IRI THESys Research Grant** for International Research Stay at Princeton University.

2015 – Present **Initiated & Organised PhD level courses in:** Increase your research impact (with Prof. Mark Reed). Spatial analysis in R (with Dr. Joe Chipperfield).

2014 **Expert Elicitation and Stakeholder Engagement training in:** Legal context in public participation, costs and benefits of stakeholder engagement, planning a participatory process, engagement techniques (expert recruitment techniques, communication, eliciting knowledge, dialogue techniques), key facilitator skills, multivariate elicitation, eliciting probabilities, analysing data using supra Bayesian approach, SHELF and behavioural aggregation (courses given by Prof. Tony O’Hagan and Alex Inman).

2013 – 2015 **‘Women in Science’** Humboldt University Graduate Program Member

2012 - Present **Einstein Fellowship, HU Berlin**

2009 **1st place student award in BSc Psychology through Science**

2009 **Elected “Wildlife Conservation Class Rep”** Edinburgh Napier Uni Trained in communication skills, mediation and project management

2004 **Entrance Scholarship, National University of Ireland, Maynooth**