CURRICULUM VITAE

Jeffrey Hanson

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EDUCATION

2013— PhD, Biology, The University of Queensland, Australia (Advisors: Richard Fuller present and Jonathon Rhodes, thesis: *The conservation of evolutionary processes in protected areas*)

2011–2012 BS (Hons), First Class, The University of Queensland, Australia (Advisors: Steve Salisbury, Craig Franklin, Hamish Campbell, and Ross Dwyer, thesis: *Using stable isotopes to assess the relationship between body-size, habitat use and diet in estuarine crocodiles (Crocodylus porosus)*)

2007–2010 BS, Major in Ecology, The University of Queensland, Australia

PROFESSIONAL POSITIONS

2012–2013 Research Assistant to Richard Fuller, The University of Queensland, Australia

2012–2013 Research Assistant to Jonathon Rhodes, The University of Queensland, Australia

2012 Casual Professional Staff, The School of Biological Sciences, The University of Queensland, Australia

RESEARCH INTERESTS

My research concerns the challenges involved in conserving biodiversity. I am interested in understanding how management actions can achieve conservation objectives for minimal cost. In particular, I specialize in creating cost-effective plans for protected area networks using limited data.

PUBLICATIONS

Journal articles

2017 **Hanson JO**, Rhodes JR, Possingham HP, & Fuller RA (2017) raptr: Representative and Adequate Prioritisation Toolkit in R. *Under review*.

Dhanjal-Adams KL, **Hanson JO**, Murray NJ, Phinn SR, Wingate VR, Mustin K, Lee JR, Allan JR, Cappadonna JL, Studds CE, Clemens RS, Roelfsema CM & Fuller RA (2016) Distribution and protection of intertidal habitats in Australia. *Emu* **116**: 208–214.

Dudaniec RY, Worthington Wilmer J, **Hanson JO**, Warren M, Bell S & Rhodes JR (2016) Dealing with uncertainty in landscape genetic resistance models: a case of three co-occurring marsupials. *Molecular Ecology*, **25**: 470-486.

Auerbach NA, Wilson KA, Tulloch AI, Rhodes JR, **Hanson JO** & Possingham HP (2015) Effects of threat management interactions on conservation priorities. Conservation Biology, **29**: 1626–1635.

Bunton JD, Ernst AT, **Hanson JO**, Beyer HL, Hammill E, Runge CA, Venter O, Possingham HP & Rhodes JR (2015) Integrated planning of linear infrastructure and conservation offsets. In Weber, T, McPhee, MJ & Andersson RS (eds) *MODSIM* 2015, 21st International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand, December 2015, pp. 1427–1433.

Hanson JO, Salisbury SW, Campbell HA, Dwyer RG, Jardine TD & Franklin CE (2015) Feeding across the food web: The interaction between diet, movement and body size in estuarine crocodiles (*Crocodylus porosus*). *Austral Ecology*, **40**: 275-286.

Rabeb D, Othman DS, Essilfie AT, Hansbro PM, **Hanson JO**, McEwan AG & Kappler U (2015) Maturation of molybdoenzymes and its influence on the pathogenesis of non-typeable *Haemophilus* influenzae. *Frontiers in Microbiology*, **6**: 01219.

Runge CA, Watson JEM, Butchart HM, **Hanson JO**, Possingham HP & Fuller RA (2015) Protected areas and global conservation of migratory birds. *Science*, **350**: 1255-1258.

Popular science articles

Beher J & **Hanson JO** (2015) Welcome to the Mapotron. *Decision Point*, **86**: 10–11.

PEER REVIEW ACTIVITIES

I have reviewed submissions to following journals: Austral Ecology, Global Change Biology, and PLoS ONE.

EDUCATIONAL ACTIVITIES

Classroom Instruction, University of Queensland, Australia

2013–2015 Professional tutor to the "Field Ecology" course, coordinated by Myron Zalucki

Workshop Instruction

2015 Geospatial Analysis in R coordinated by Hawthorne Beyer, Rebbecca Runting and Jutta Beher at the Student Conference of Conservation Science, Australia.

Smoothing the Marxan Flow with R coordinated by Matthew Watts at the Student Conference of Conservation Science, Australia.

2013 Introduction to Geospatial Analysis coordinated by Hawthorne Beyer at The University of Queensland, Australia.

Introduction to Spatial Data Analysis in R workshop coordinated by Hawthorne Beyer at The University of Queensland, Australia.

2011 Introducing R coordinated by Simon Blomberg at The University of Queensland, Australia.

SCHOLARSHIPS

- Australian Postgraduate Award (APA) Scholarship (2013)
- Postgraduate Travel Award Scholarship, The School of Biological Sciences, The University of Queensland, Australia (2016)

SELECTED PROJECTS

An R package for generating spatial prioritizations that capture within feature variation (eg. intra-specific genetic variation). Available at https://CRAN.R-project.org/package=raptr.

prioritizr An R package for creating tailor-made spatial prioritizations. Users can combine a range of different objectives and constraints to find the solution to their problem. Available at https.github.com/prioritizr/prioritizr.

INVITED PRESENTATIONS

Conference presentations

2016	Hanson JO, Rhodes JR, Possingham HP, Fuller RA (2016) RAPR: Representative
	and Adequate Prioritizations in R. Oral presentation to Society for Conservation
	Biology 4th Oceania Congress, Brisbane, Australia.

Hanson JO, Rhodes JR, Fuller RA (2014) Conservation planning for intra-specific biodiversity using surrogates. Oral presentation to the Meeting of the Minds miniconference at The University of Queensland, Brisbane, Australia.

Seminars

2017	Systematic conservation prioritization in R presented to members of the Center for
	Biodiversity and Conservation Science at The University of Queensland, Australia.
2016	Biodiversity processes in reserve-selection presented to members of the Center for
	Biodiversity and Conservation Science at The University of Queensland, Australia.
2016	Biodiversity processes in reserve-selection presented to members of the Center for
	Biodiversity and Conservation Science at The University of Queensland, Australia.

Scientific meetings and networking events

2017 R Unconference hosted by the Brisbane Users of R Group, Brisbane, Australia 2016 rOpenSci Unconference, Brisbane, Australia