ABBEY E CAMACLANG

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EDUCATION

Doctor of Philosophy 2016

School of Biological Sciences

University of Queensland (Brisbane, QLD, Australia),

Thesis: "Identifying critical habitat for threatened species: concepts and challenges"

Master of Environmental Studies

2007

School of Resource and Environmental Studies

Dalhousie University (Halifax, NS, Canada)

Thesis: "Science, management, and policy in conservation biology: protecting post-emergent hatchling Blanding's turtles in Nova Scotia"

Bachelor of Science (First Class Honours) in Ecology (Co-operative Education)

2004

Department of Biological Sciences

University of Calgary (Calgary, AB, Canada)

Thesis: "Temperature related variation in *Eptesicus fuscus* isolation calls and its consequences for individual recognition"

AWARDS AND SCHOLARSHIPS

University of Queensland International Scholarship - \$87 000 + tuition waiver	Jan 2012 – Jun 2015
NSERC Post Graduate Scholarship (Doctoral) - \$42 000	Jan 2012 – Dec 2013
NSERC Alexander Graham Bell Canada Graduate Scholarship (Doctoral) - \$70 000	Declined
Dalhousie University Faculty of Graduate Studies Scholarship - \$4 000	Sep 2006 – Aug 2007
NSERC Post Graduate Scholarship (Master's) - \$34 600	Sep 2005 – Aug 2007
NSERC Undergraduate Student Research Award - \$4 000	May 2003 – Aug 2003

CURRENT RESEARCH

Postdoctoral Research Fellow

Apr 2016 – Jan 2019

Australian National Environmental Science Programme (NESP) Threatened Species Recovery Hub, School of Biological Sciences, Monash University – Melbourne, VIC, Australia

- Developed simulation models in MATLAB to model the dynamics and spread of introduced feral ungulates and weeds in the Victorian alpine region, their impact on alpine peatlands, and the consequences of alternative management actions
- Performed return-on-investment analyses to optimise management under uncertainty based on cost-effectiveness, and performed model sensitivity analyses and value of information analysis to identify influential parameters and estimate the potential gain in benefit by resolving uncertainty
- Assisted in organising and facilitating structured decision making workshops with managers and other stakeholders to identify management objectives and alternative management actions
- Co-supervised two undergraduate honours thesis students; provided advice on thesis research
 design and analysis, and support for field planning; provided feedback on research proposals and
 final theses

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PREVIOUS RESEARCH EXPERIENCE

Species at Risk Modelling Intern/Aquatic Sciences Biologist

2010 - 2011

Fisheries and Oceans Canada, Pacific Biological Station - Nanaimo, BC, Canada

Developed simulations of illegal fishing behaviour for northern abalone and used R and RAMAS GIS
to conduct spatially explicit population modelling and sensitivity analyses to aid in recovery planning

Conservation Fellowship Research Specialist

2009 - 2010

Calgary Zoo Centre for Conservation Research - Calgary, AB, Canada

Assisted with field surveys on various threatened species in the prairie region; reviewed camera trap
images and performed statistical analysis of camera trap data using R to model swift fox habitat use
near oil and gas structures

Editor, Recovery Strategy for the Eastern Ribbonsnake

2008

Parks Canada, Atlantic Service Centre - Halifax, NS, Canada

 Updated, reviewed and provided suggested edits to the draft of the recovery strategy, and assisted with the development and writing of selected sections of the recovery strategy

Research Assistant 2007 – 2008

Blanding's Turtle Research Team, Acadia University - Wolfville, NS, Canada

 Managed and conducted fieldwork to radio-track hatchling Blanding's turtles; organised, trained, and supervised field researchers; analysed hatchling behaviour, movement and habitat use data

TEACHING EXPERIENCE

Tutor – Animal Behaviour (3rd year undergraduate course)

2015

School of Biological Sciences, University of Queensland

Teaching Assistant – Nature Conservation (3rd year undergraduate course)

2006

Department of Biology, Dalhousie University

RECENT VOLUNTEER ACTIVITIES

Peer Reviewer for Scientific Journals

Ongoing

Conservation Biology, Biological Conservation, Biodiversity and Conservation,

Ecosphere, Wildlife Research, Canadian Journal of Zoology, Landscape and Urban Planning

Governance Officer and Policy Committee Member

2014 - 2015

Society for Conservation Biology – University of Queensland/Brisbane Chapter

Event Planner and Coordinator

2014

2014 UQ Environmental Decisions Group Retreat

Local Organising Committee Member and Volunteer

2013

Student Conference on Conservation Science - Australia 2013

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PUBLICATIONS

Peer-reviewed Publications

 Camaclang, AE, JMR Curtis, I Naujokaitis-Lewis, MS Poesch, and MA Koops. 2017. Modelling the impact of poaching on metapopulation viability for data-limited species. Canadian Journal of Fisheries and Aquatic Sciences 74: 894-906.

- Martin, TG, **AE Camaclang**, HP Possingham, LA Maguire, and I Chadès. 2017. Timing of protection of critical habitat matters. Conservation Letters 10: 308-316.
- Camaclang, AE, M Maron, TG Martin, and HP Possingham. 2015. Current practices in the identification of critical habitat for threatened species. Conservation Biology 29: 482-492.
- **Camaclang, AE**, L Hollis, and RMR Barclay. 2006. Variation in body temperature and isolation calls of juvenile big brown bats, *Eptesicus fuscus*. Animal Behaviour 71: 657-662.

Manuscripts Currently in Preparation

- Camaclang, AE, I Chadès, TG Martin, and HP Possingham. In Preparation. Immediate protection is more important than accurate designation when the rates of habitat loss are high.
- Moore, JL, AE Camaclang, AL Moore, CE Hauser, MC Runge, V Picheny, and L Rumpff. In Preparation. Accounting for multiple threats and management actions improves the efficiency of managing multiple threats.

CONFERENCE PRESENTATIONS

•	Ecological Society of Australia Annual Conference	2018
	25-30 Nov, Brisbane, Australia	
	Mismatches between expert-based condition assessments,	
	management thresholds, and field data for alpine and subalpine	
	peatlands.	
•	Joint Conference of the Ecological Society of Australia	2017
	and the New Zealand Ecological Society	
	26 Nov – 1 Dec, Hunter Valley, Australia	
	Models and decision frameworks for optimal threat management	
	in alpine and subalpine peatlands of Victoria	
•	10 th Annual Conference of the Society for Risk Analysis	2017
	Australia and New Zealand	
	20–23 Nov, Melbourne, Australia	
	Using models and a decision framework to optimise threat management	
	in alpine and subalpine peatlands of Victoria	
•	Ecological Society of Australia Annual Conference	2016
	28 Nov–2 Dec, Fremantle, Australia	
	Linking threat management to the conservation and recovery of	
	alpine and sub-alpine peatlands in Victoria	
•	27 th International Congress for Conservation Biology	2015
	2–6 July, Montpellier, France (speed talk)	
	Optimizing the trade-off between learning and doing in protecting species habita	
•	99th Annual Meeting of the Ecological Society of America	2014
	10–15 August, Sacramento, USA	
	Optimal trade-offs between learning and doing in habitat conservation	

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CUNICEDENICE	PRESENTATIONS	Icant 1
CONFERENCE	PRESENTATIONS	LCOIIL.

•	North America Congress for Conservation Biology	2014
	13–16 July, Missoula, USA	
	Mismatch between purpose and practice in the identification of	
	critical habitats for threatened species	
•	26 th International Congress for Conservation Biology	2013
	21–25 July, Baltimore, USA (poster presentation)	
	What's in a name? Reviewing the concept and current practice of	
	critical habitat identification for threatened and endangered species	
•	Student Conference on Conservation Science – Australia	2013
	21–31 January, Brisbane, Australia (poster presentation)	
	Reviewing current approaches to critical habitat identification for	
	threatened and endangered species	
•	World Conference on Natural Resource Modeling	2012
	9–12 July, Brisbane, Australia (received a student presentation award)	
	Importance of poaching on northern abalone population viability in British Co	olumbia
•	2 nd International Marine Conservation Congress	2011
	14–18 May, Victoria, Canada	
	Effects of poaching on northern abalone population viability in British Columb	bia
TECHNICA	AL AND PROFESSIONAL DEVELOPMENT TRAINING	
•	Introduction to Structured Decision Making	2016
	Presented by: US Fish and Wildlife Service and US Geological Survey	
	(National Conservation Training Centre, West Virginia, USA)	
•	Talking Science with the Media	2014
	Presented by: Econnect Communication (Brisbane, Australia)	
•	Facilitation Skills Master Class	2014
	Presented by: Mary Maher & Associates (Brisbane, Australia)	
•	Advances in Conservation Impact Evaluation and Causal Inference	2014
	Presented by: Dr. Paul Ferraro (Georgia State University)	
•	Species Distribution Modelling	2013
	Presented by: Dr. Jane Elith (University of Melbourne), and	
	Dr. Ramona Maggini (University of Queensland)	
•	Introduction to HexSim	2013
	Presented by: Dr. Nathan Schumaker and Dr. Allen Brookes	
	(US Environmental Protection Agency)	
•	Advanced R	2012
	Presented by: Dr. Bill Venables (CSIRO)	
•	Introduction to Marxan	2012
	Presented by: ARC Centre of Excellence in Environmental Decisions	
	(University of Queensland)	
•	Complex Systems and Geosimulation and Land Change Modelling	2012
	Presented by: <i>Prof. Danielle Marceau</i> (University of Calgary), and	
	Prof. Robert Gilmore Pontius Jr. (Clark University)	
•	Introduction to ArcGIS II	2010
	Presented by: Coastal Resource Mapping Ltd (Nanaimo, Canada)	

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SUMMARY OF RESEARCH AND PROFESSIONAL SKILLS

Research and Data Analysis

- Working knowledge of decision theory and analytical approaches
- Knowledge of research and experimental design and statistical sampling methods
- Experience in modelling and statistical analysis using R and MATLAB
- Knowledge of mapping and GIS analysis using ArcGIS
- Strong background in ecological and conservation biology theory
- Experience conducting systematic literature reviews and meta-analysis
- Familiarity with environmental law and policy analysis

Organisation and Communication

- Facilitating workshops with scientists, government, and conservation groups
- Collaborating with diverse stakeholders groups on conservation research programs
- Writing technical reports, project summaries, and scientific papers
- Oral and poster presentations for departmental seminars and scientific conferences
- Community outreach and presentations to promote wildlife research and conservation
- Training of students and volunteers in research, field methods, and data collection
- Event planning and project management experience

Field Methods

- Wetland habitat sampling and wetland vegetation identification
- Survey and mark-recapture techniques for small mammals, birds, and herpetofauna
- Radio-telemetry and animal behaviour observation methods