**Dominique A Potvin, PhD, AFHEA**

School of Science and Engineering +61 7 5459 4462

Fraser Coast Campus dpotvin@usc.edu.au

University of the Sunshine Coast Twitter @silvereyedoc

PO Box 1149, Hervey Bay, QLD, 4655

Google scholar profile: http://scholar.google.ca/citations?user=ofrkxHsAAAAJ&hl=en

**Education**

2012 Ph.D. Zoology, University of Melbourne, Australia

2008 M.Sc. Biology, University of Western Ontario, Canada

2006 B.Sc.(Hons) Major Biology, Minor Music, Queen’s University, Canada

**Professional Research Experience**

2017-Present Lecturer: University of the Sunshine Coast

School of Science and Engineering, Fraser Coast Campus

2015-2016 *Postdoctoral Fellow: Australian National University*

Supervisor: Dr. Robert McGrath

Project: Social information use in bird communities

2015 *Postdoctoral Fellow: University of Helsinki, Finnish Natural History Museum*

Supervisor: Dr. Aleksi Lehikoinen

Project: Long-term dispersal and migration patterns in European birds

2014 *Postdoctoral Fellow: Western University*

Supervisor: Dr Scott MacDougall-Shackleton

Project: Effects of anthropogenic noise on stress and development in finches.

2012-2013 *Postdoctoral Project Officer: Melbourne Museum*

Supervisors: Dr Jane Melville & Dr Kirsten Parris

Project: Effects of severe bushfire on frog community ecology and genetics

**Teaching Certification**

2016 Associate Fellow of the Higher Education Academy

2014 Western Certificate in University Teaching and Learning, Western University

Courses: Animal Behaviour, Introduction to Biology, Environmental Biology, Ecology

**Selected Competitive Research Grants**

2014 TD Friends of the Environment Research Trust

2012 Albert Shimmins Postgraduate Writing Up Award, University of Melbourne

2011 Stuart Leslie Bird Research Award. Birds Australia

2009-2011 Holsworth Wildlife Research Endowment. ANZ Trusts

2010 Project Sponsorship Grant. Australian Geographic

2010 Victorian Project Grant 2010. Birds Australia

**Honours & Awards**

2011 Melbourne Abroad Traveling Scholarship, University of Melbourne

2011 Drummond Award, University of Melbourne

2010 Georgina Sweet Scholarship Award, University of Melbourne

2009 Science Faculty Scholarship & Melbourne International Fee Remission Scholarship, University of Melbourne

2008 Graduate Thesis Research Award, University of Western Ontario

2007 Western Graduate Research Scholarship, University of Western Ontario

2005, 2006 Dean’s List, Queen’s University

**Peer-Reviewed Publications**

**2019**

**Potvin, DA**. Mud acts as a noise dampener in Australian passerine nests. **Emu - Austral Ornithology** 119: 45-52

**2018**

**Potvin, DA,** CP Ratnayake, AN Radford & RD Magrath. Birds learn socially to recognize heterospecific alarm calls by acoustic association. **Current Biology** 28: 2632-2637

**Potvin, DA**, E Burdfield-Steel, JM Potvin & SM Heap. Diversity begets diversity: a global perspective on gender equality in scientific society leadership. **PLoS One** 13: e0197280

Dawson Pell, F.S.E., **DA Potvin**, CP Ratnayake, E Fernandez-Juricic, RD Magrath & AN Radford.Birds orient their heads appropriately in response to functionally referential alarm calls of heterospecifics. **Animal Behaviour** 140: 109-118

**2017**

**Potvin, DA,** D Pavón-Jordán, & A Lehikoinen. “To filter or not to filter: assessing the exclusion of hunting and persecution data in ringing recovery studies.” **Ornis Fennica** 94: 12-140

Melville, J, ML Haines, K Boysen, L Hodkinson, A Kilian, KL Smith Date, **DA Potvin** & KM Parris. “Identifying hybridization and admixture using SNPs: Application of the DArTseq platform in phylogeographic research on vertebrates.” **Royal Society Open Science** 4:161061

Griffith, SC, *et al.* "Variation in reproductive success across captive populations: methodological differences, potential biases and opportunities" **Ethology** 123: 1-29

**Potvin, DA.** "Coping with a changing soundscape: avoidance, adjustments and adaptations." **Animal Cognition** 20: 9-18

**Potvin, DA,** KM Parris, KL Smith Date, CC Keely, RD Bray, J Hale, S Hunjan, JJ Austin, J Melville. "Genetic erosion and escalating extinction risk in frogs with increasing wildfire frequency." **Journal of Applied Ecology** 54: 945-954

**2016**

**Potvin, DA,** KVälimäki & A Lehikoinen. "Differences in shifts of wintering and breeding ranges lead to changing migration distances in European birds." **Journal of Avian Biology** 47: 619-628

**Potvin, DA.,** M Curcio, JP Swaddle & SA MacDougall-Shackleton. "Experimental exposure to urban and pink noise affects brain development and song learning in zebra finches (*Taenopygia guttata*)". **PeerJ.** e:2287

**2015**

**Potvin, DA** & SA MacDougall-Shackleton. "Traffic noise affects embryo mortality and nestling growth rates in captive zebra finches." **Journal of Experimental Zoology Part A: Ecological Genetics and Physiology** 323: 722-730.

**Potvin, DA.** "See, hear, speak... Using multi-modal examination techniques in biology." **Teaching Innovation Projects** 5(1): 3

**Potvin, DA**, P Crawford, SA MacDougall-Shackleton & EA MacDougall-Shackleton. "Song repertoire size, not territory location, predicts reproductive success and territory tenure in a migratory songbird." **Canadian Journal of Zoology** 93: 627-633

**Potvin, DA** & SA MacDougall-Shackleton. "Experimental chronic noise exposure affects adult song in zebra finches." **Animal Behaviour** 107: 201-207*.*

**Potvin, DA** & SM Clegg. "The relative roles of cultural drift and acoustic adaptation in shaping syllable repertoires of island bird populations change with time since colonization." **Evolution** 69: 368-380

**2014**

**Potvin, DA**, RA Mulder & KM Parris. "Silvereyes decrease acoustic frequency but increase efficacy of alarm calls in urban noise." **Animal Behaviour** 98: 27-33

**2013**

**Potvin, DA** & RA Mulder. “Immediate, independent adjustment of call pitch and amplitude in response to varying background noise by silvereyes.” **Behavioural Ecology** 24: 1363-1368

**Potvin, DA.** “Larger body size on islands affects silvereye (*Zosterops lateralis*) song and call frequency.” **Journal of Avian Biology** 44: 221-225

**Potvin, DA**, RA Mulder & KM Parris. “Limited genetic differentiation between acoustically divergent populations of urban and rural silvereyes (*Zosterops lateralis*).” **Evolutionary Ecology** 27: 381-391

McCarthy, AH, **DA Potvin**, T Aslam, R Bartlett, S Beebe, J Bennett, DJ Hitchcock & M Tee. “Differences between the songs of urban and rural Australian magpies (*Cracitus tibicen*) and potential consequences for territorial interactions.” **Notornis** 60: 143-150

**2012**

**Potvin, DA** & KM Parris. “Song convergence in multiple urban populations of silvereyes (*Zosterops lateralis*).” **Ecology and Evolution** 2: 1977-1984

Guay, PJ, **DA Potvin** & RW Robinson. “Aberrations in Plumage Coloration in Birds.” (Invited review article). **Australian Field Ornithology** 29: 23-30.

Guay, PJ, **DA Potvin** & RW Robinson. “Plumage aberrations in Australian birds: A comment on Guay *et al.* (2012) and Frith & Murphy (2012) – A reply.” **Australian Field Ornithology**29: 215-216

**2011**

**Potvin, DA**, KM Parris & RA Mulder. “Geographically pervasive effects of urban noise on frequency and syllable rate of songs and calls in silvereyes (*Zosterops lateralis*)*.*”**Proceedings of the Royal Society B** 278: 2464-2469

**2010**

**Potvin, DA** & EA MacDougall-Shackleton.“Paternal song complexity predicts offspring sex ratios close to fledging, but not hatching, in Song Sparrows.” **Wilson Journal of Ornithology** 122: 146-152

Guay, PJ & **DA Potvin**. “A schizochroistic Australian Wood Duck *Chenonetta jubata*.” **Canberra Bird Notes** 35:153-157

**2009**

**Potvin, DA** & EA MacDougall-Shackleton*.* “Parental investment amplifies effects of genetic complementarity on growth rates in song sparrows, *Melospiza melodia*" **Animal Behaviour**. 78: 943-948

MacDougall-Shackleton, SA, LA Dindia, A Newman, **DA Potvin**, KA Stewart & EA MacDougall-Shackleton. “Stress, song and survival in sparrows.” **Biology Letters**. 5: 746-748

MacDougall-Shackleton, EA, KA Stewart, **DA Potvin** & E Tennenhouse. “The rich get richer: song complexity predicts local song structure and song output in song sparrows *Melospiza melodia.”* **Animal Behaviour** 78: 141-146

**Book Chapters**

**Potvin, DA**, RA Mulder & KM Parris. 2014. “Acoustic and genetic adaptations in the silvereye (*Zosterops lateralis*)*.*” *In* Avian Urban Ecology. Ed. D Gill & H Brumm. Oxford University Press, UK.

**Selected Invited Seminars**

2016 *City Bird, Country Bird: the effects of urban noise on wildlife*. Invited seminar speaker, Deakin University, Geelong, Australia

2016 *The effects of urban noise on wildlife*. Invited seminar speaker, University of Veterinary Medicine Vienna, Vienna, Austria

2015 *Gender equality in STEM.* Invited seminar speaker, University of Jyväskylä, Finland

2014 *Noise annoys: Urban and industrial soundscape effects on wildlife.* Sarnia Green Drinks, Sarnia, Canada

2013 *Frogs and fire: impacts of the 2009 bushfires on frog communities in the Kinglake region.* Victorian Field Naturalists, Melbourne, Australia.

2012 *Being heard: the implications of noise for urban avian species.* New South Wales Ecological Consultants, Wollongong, Australia.

2012 *To a different tune: the urbanization of the silvereye*. Birdlife Victoria, Melbourne, Australia.

2010*To a Different Tune: are silvereyes altering their songs in cities?* Birds Tasmania, Hobart, Australia.

2010 *Song and Genetics: Crucial Connections*. Scientific Day, Australian Bird Studies Association, Sydney, Australia.

**Selected Conference Presentations**

**Potvin, DA.** 2018. Nests & Noise.International Ornithology Congress, Vancouver, Canada.

**Potvin, DA**, K Strickland, J Slade, E MacDougall-Shackleton & C Frere. 2017. Applying social network analysis to birdsong research. Australian Ornithological Union Meeting, Geelong, VIC.

**Potvin, DA.,** A Diez & S MacDougall-Shackleton. 2016. Bridging the gap between environment and behaviour: how urban noise affects developing songbird brains. Urban Birds: British Ornithology Union 2016 Meeting. Leicester, UK.

**Potvin, DA.** 2015. Life downtown: the implications of urbanization for avian species. **Invited plenary speaker**, Spring Symposium, University of Helsinki, Finland.

**Potvin, DA.,** PFaltynek, & SA MacDougall-Shackleton. 2014. “Cultural evolution or learning deficiencies? An investigation into the effects of noise on song learning in juvenile zebra finches." Animal Behavior Society Meeting, Princeton, NJ.

**Potvin, DA.,** KL Smith, J Melville & KM Parris. 2013. “Burning love: the effects of intense bushfire on the *Litoria* species complex.” Australasian Evolution Society Meeting, Geelong, Australia.

**Potvin, DA.** 2012. “Cultural evolution in isolation: The relative contributions of habitat, geography and colonization events in shaping island dialects.” Evolution Meeting – Joint Congress, Ottawa, Canada.

**Potvin, DA**, KM Parris & RA Mulder. 2011. “City birdsong – what’s behind the change?” Meeting of the International Bioacoustics Council (IBACC), La Rochelle, France.

**Potvin, DA**, RA Mulder & KM Parris. 2010. “Urban effects on song and genetics in silvereyes (*Zosterops lateralis*): a large-scale study.” Congress, International Society for Behavioral Ecology, Perth, Australia.

Parris, KM**, DA** **Potvin\*** (speaker). 2010. “Acoustic communication in urban noise: the benefits of vocal adjustment for frogs and birds”. International Congress for Conservation Biology, Edmonton, Canada

**Potvin, DA,** RA Mulder. 2009. “Urban noise effects on song learning, development and evolution in a native Australian bird species”. Meeting, Australasian Evolution Society, Canberra, Australia

**Potvin DA**, EA MacDougall-Shackleton. 2008. “Song, genetic compatibility and offspring performance in song sparrows (*Melospiza melodia*)”. Congress, International Society for Behavioral Ecology, Ithaca, NY.

**Service**

2018 – Pres. Vice-treasurer, Board, Australasian Society for the Study of Animal Behaviour

2016 – Pres. Associate Editor & Communications Editor, Emu: Austral Ornithology

2009 - Pres. Peer reviewer for twelve national and international journals including PLoS One, Global Ecology and Biogeography, Evolutionary Ecology and Animal Behaviour

2009 – Pres. A-Licenced bird bander with the Australian Bird and Bat Banding Scheme and the New Zealand Bird Banding Scheme (Department of Conservation)

2010 Vice President of the Zoology Post-graduate Association, University of Melbourne

2010-2012 Health and Safety representative for the Behaviour and Evolution lab group, Department of Zoology, University of Melbourne

**Selected Knowledge Transfer**

**Television appearances:** Network Ten (Australia) – Scope; Totally Wild

**Radio Interviews:** ABC Radio (Australia Pacific, Sydney, Melbourne, Perth, Wide Bay, Queensland, Tasmania)

**Newspapers:** The Age, Sydney Morning Herald & Melbourne Leader (Australia); Zeitgeist (Germany); St. Albert Gazette & First Friday (Canada)

**Magazine Articles:** Australian Geographic, New Scientist (Australia), VOICE (University of Melbourne), Australasian Science

**Various Online media** Canada, Australia, India, Japan, Thailand, New Zealand, USA

**Public appearances** Inspiring Scientists weekend - Scienceworks Museum (Australia)