

PETRA DEANE-COE

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EDUCATION

PhD	Cornell University, Ecology and Evolutionary Biology Advisors: Richard Harrison, Irby Lovette Committee: Tim DeVoogd, Elizabeth Adkins-Regan, Jesse Goldberg	Aug 2010 - present
MSc	Queen's University (Canada), Biology Advisor: Vicki Friesen Committee: Paul Martin, Tim Birt	May 2008 - Feb 2011
BScH	Queen's University (Canada), Biology Advisor: Vicki Friesen Committee: Raleigh Robertson, Tim Birt	Oct 2003 - May 2008

RESEARCH INTEREST

Identifying the genomic basis of adaptive diversification in sparrows.

FELLOWSHIP SUPPORT (\$135,650)

NSERC Postgraduate Scholarship	\$63,000	Oct 2011
Cornell Lab of Ornithology Summer Fellowship Award	\$4,600	May 2011
Cornell University Fellowship	\$26,400+	Aug 2010
Alexander Graham Bell Canada Graduate Scholarship	\$17,500	May 2009
Ontario Graduate Scholarship	\$15,000 (decl.)	May 2009
Queen's University Graduate Award	\$6,900	May 2008
University of Winnipeg Academic Proficiency Scholarship	\$500	Oct 2005
University of Winnipeg Special Entrance Scholarship	\$1,750	Oct 2003

RESEARCH GRANT FUNDING (\$30,120)

Cornell Center for Vertebrate Genomics Seed Grant	\$12,000	Dec 2012
Cornell Lab of Ornithology Athena Fund	\$6,000	Nov 2012
Cornell Chapter Sigma Xi, Grant-In-Aid of Research	\$500	May 2012
Cornell Lab of Ornithology Athena Fund	\$9,000	Nov 2011
Society of Systematic Biologists Graduate Research Award	\$1,620	May 2011
Andrew W. Mellon Student Research Grant	\$1,000	Mar 2011

HONORS AND AWARDS (\$1,044)

American Ornithologists' Union (AOU) Student Travel Award	\$450	Sept 2014
World Seabird Conference Student Presentation Award	Top 6	Sept 2010
World Seabird Conference Travel Award	\$700	Sept 2010
Pacific Seabird Group Travel Award	\$344 (decl.)	Dec 2008

PUBLICATIONS

- Deane, P.E.,** K.D. McCoy, R.J. Robertson, T.P. Birt and V.L. Friesen. The Condor
Minimal genetic structure in the Cerulean Warbler (*Dendroica cerulea*)
Despite evidence for ecological differentiation among populations.

TALKS

- Deane, P.E.,** M. Bolton, J. Gonzalez-Solis and V.L. Friesen.
What traits predispose Band-rumped Storm-petrels to the repeated,
independent evolution of sympatric seasonal foraging types?
WSC (World Seabird Conference) Sept 2010
CSEE (Canadian Society for Ecology and Evolution) May 2010

POSTERS

- Deane, P.E.,** M. Bolton, J. Gonzalez-Solis and V.L. Friesen.
Sympatric speciation in action: Evolution of seasonal populations
in the Band-rumped Storm-petrel (*Oceanodroma castro*)
AOU (American Ornithologists' Union) Aug 2009
- Deane, P.E.,** K.D. McCoy, R.J. Robertson, T.P. Birt and V.L. Friesen.
Conservation genetics for a species in decline: What is the pattern
of genetic diversity in the Cerulean Warbler (*Dendroica cerulea*)?
OEEC (Ontario Ecology and Ethology Colloquium) May 2008

TEACHING EXPERIENCE - LECTURES

- Deane, P.E.** Issues in conservation genetics: challenges for the Cerulean Warbler
BIOL310 Conservation Genetics, Queen's University Oct 2009
- Deane, P.E.** Species profile: the Cerulean Warbler
BIOL308 Field Studies in Ornithology, Queen's University May 2009
- Deane, P.E.** The nocturnal life of Storm-petrels: a small and mysterious seabird
BIOL321 Animal Behavior, Queen's University Mar 2009
- Deane, P.E.** Conservation in Manitoba: orchids, cougars and the Mississippi flyway
BIOL422 Conservation Biology, Queen's University Feb 2009

TEACHING EXPERIENCE – TA POSITIONS

- BioEE2650 Tropical Field Ecology and Behavior (in central Kenya) Jan 2011, 2012
Cornell University, Ecology and Evolutionary Biology, professor Irby Lovette
- BIOL422 Conservation Biology Spring 2009
Queen's University, Biology, professor Paul Martin

BIOL321 Animal Behavior Spring 2009
Queen's University, Biology, professor Christoph Richter

BIOL350 Evolutionary Ecology of Humans Fall 2008
Queen's University, Biology, professor Lonnie Aarssen

TEACHING EXPERIENCE - ACADEMIC ADVISING

Kara Seto Sophomore undergraduate, Ecology and Evolutionary Biology, Cornell
Summer research project: *Why do Song Sparrows switch song motifs?*

PROFESSIONAL ACTIVITIES - REVIEWS

Proceedings of the Royal Society B May 2010

PROFESSIONAL ACTIVITIES - SERVICE

Organized and publicized the weekly Cornell University Ornithology Seminar series 2010/2011
Hosted the Cornell E&EB graduate student lunch for visiting speakers 2010/2011

PROFESSIONAL ACTIVITIES – SOCIETY MEMBERSHIP

ABS (Animal Behavior Society)	2012 – present
Sigma Xi	2012 – present
SSE (Society for the Study of Evolution)	2010 – present
AOU (American Ornithologists' Union)	2009 – present
AFO (Association of Field Ornithologists)	2009 – present
WOS (Wilson Ornithological Society)	2009 – present
COS (Cooper Ornithological Society)	2009 – present
WS (Waterbird Society)	2009 – 2011

OUTREACH – STUDENT MENTORING

Maya Lim	Freshman graduate student, Ecology and Evolutionary Biology, Cornell
Kara Seto	Sophomore undergraduate, Ecology and Evolutionary Biology, Cornell
Dominique Hellmich	Sophomore undergraduate, Ecology and Evolutionary Biology, Cornell
Camille Shaw	Sophomore undergraduate, Neurobiology and Behavior, Cornell
Anna Autilio	Sophomore undergraduate, Animal Science, Cornell

OUTREACH – PUBLIC SEMINARS

Deane, P.E. Temporal dimensions for sympatric speciation

Cornell University Ornithology seminars	Oct 2009
Queen's Behaviour, Ecology and Evolution Research seminars	Mar 2009

Deane, P.E. Issues in conservation genetics: challenges for the Cerulean Warbler

Queen's Ecology, Evolution and Behaviour seminars	Oct 2008
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Deane, P.E. The environment and sustainable development (co-delivered)
2009 Youth Forum on Global and Community Development

Mar 2009

OUTREACH – PUBLIC ENGAGEMENT

Organized and participated in community biodiversity surveys and wildlife festivals.

Presqu'île Waterfowl Festival	Mar 2010
Kingston, Ontario Christmas Bird Count	Dec 2009
Kingston Region BioBlitz	Aug 2009
Charleston Lake Annual Odonate Survey	Aug 2007

Conceived, designed and published a family-friendly "Roadside Guide to Turtles of Eastern Ontario" in an effort to engage families in turtle identification, highlight key issues and reduce road mortality.

Planted and promoted biologically productive native gardens in urban spaces, and won second place in the "Environmentally Friendly Garden" category in the Kingston Communities in Bloom competition.

Judged the Lennox and Addington Regional Science Fair in Kingston, Ontario.

OUTREACH - ACTIVISM

Educated residents of Lennox and Addington County, Ontario, about illegal use of the herbicide Garlon-4 by Ontario Hydro on wetlands and shorelines.

Use of this herbicide was subsequently banned by the county	Fall 2006
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Campaigned to promote the adoption of a groundbreaking by-law banning use of cosmetic pesticides, like 2-4-D, in the city of Kingston, Ontario.

A cosmetic pesticide by-law was successfully passed by Kingston city council	Fall 2007
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OTHER WORK EXPERIENCE

SWEP (Summer Work Experience Program) researcher Queen's University (ON, Canada)	May 2007 – Aug 2007
Natural History Education Park Ranger Charleston Lake Provincial Park (ON, Canada)	May 2006 – Aug 2006
Nature Interpreter Level II Oak Hammock Marsh Interpretive Centre, Ducks Unlimited (MB, Canada)	May 2004 – May 2006