

EVELYN LISE JENSEN

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CURRENT APPOINTMENT

2017- Postdoctoral Fellow
Department of Biology, Queen's University
PI: Dr. Stephen Lougheed

EDUCATION

2017 Ph.D. in Biology
Department of Biology, University of British Columbia Okanagan
Advisor: Dr. Michael Russello
Thesis: Learning from the past, examining the present and planning for the future:
Genetic approaches to the conservation of giant Galápagos tortoises

2013 M.Sc. in Biology
Department of Biology, University of British Columbia Okanagan
Advisor: Dr. Michael Russello
Thesis: Genetic assessment of taxonomic uncertainty and conservation units in painted
turtles, with a focus on the at-risk *Chrysemys picta bellii* in British Columbia

2011 B.Sc. with Honors in Evolutionary Biology
Department of Biological Sciences, University of Alberta
Advisors: Drs. Sally Leys and David Coltman
Thesis: Studying the genetic structure of sponge populations

GRANTS AND AWARDS

2017 PhD Excellence and Diversity Award, Canadian Society for Ecology and Evolution
(\$500)

2016 Graduate Student Researcher of the Year, University of British Columbia Okanagan
(\$1,500)

2012, 2016 Graduate Student Travel Award, University of British Columbia Okanagan (\$2,000 total)

2015 American Genetic Association, Ecological, Evolutionary and Conservation Genomics
Award (\$10,000 USD)

2015 Biodiversity Research: Integrative Training and Education Travel Award, Natural
Science and Engineering Research Council of Canada Collaborative Research and
Training Experience Program, University of British Columbia (\$500)

2014 ConGenOmics workshop fee waived, European Science Foundation

2009 Canadian Institute for Nordic Studies Undergraduate Summer Bursary (\$1,500)

SCHOLARSHIPS

2012-2017	University Graduate Fellowship, University of British Columbia Okanagan (\$22,500 total)
2016	Graduate Dean's Thesis Fellowship, University of British Columbia Okanagan (\$6,000)
2013-2016	Postgraduate Scholarship, Natural Sciences and Engineering Research Council of Canada (\$63,000 over 3 years)
2011, 2013	Graduate Entrance Scholarship, University of British Columbia Okanagan (\$9,500 total)
2012-2013	Alexander Graham Bell Canada Graduate Scholarship, Natural Sciences and Engineering Research Council of Canada (\$17,500)
2012	University of British Columbia Okanagan Graduate Scholarship (\$700)
2011	Undergraduate Research Award, University of Alberta (\$100)
2009, 2010	Jason Lang Scholarship, Alberta Scholarship Programs (\$2,000 total)
2009	Marian Campbell Memorial Book Prize, University of Alberta (\$80)

PEER-REVIEWED PUBLICATIONS

11. Jensen, E. L., A. Mooers, G. Caccone, and M. A. Russello. 2016. I-HEDGE: Determining the optimum complementary sets of taxa for conservation using evolutionary isolation. *Peer J.* 4:e2350. (2.18)
10. Milián-García, Y., E. L. Jensen, S. Ribalta Mena, E. Perez Felitas, G. Sosa Rodriguez, L. Guerra Manchena, G. Espinosa Lopez, and M. A. Russello. 2016. Genetic evidence for multiple paternity in the Critically Endangered Cuban crocodile (*Crocodylus rhombifer*). *Amphibia-Reptilia* 37: 273-281. (1.28 IF)
9. Shafer, A. B., J. B. W. Wolf, P. C. Alves, L. Bergström, G. Colling, L. Dalén, L. De Meester, R. Ekblom, S. Fior, M. Hajibabaei, A. R. Hoezel, J. Höglund, E. L. Jensen, M. Krützen, A. J. Norman, E. M. Österling, N. J. Ouborg, J. Piccolo, C. R. Primmer, F. A. Reed, M. Roumet, J. Salmona, M. K. Schwartz, J. Thaulow, M. Valtonen, M. Weissensteiner, C. W. Wheat, and P. Zieliński. 2016. Reply to Garner et al. *Trends in Ecology and Evolution* 31:83-84. (15.27 IF)
8. Jensen, E. L., W. Tapia, A. Caccone, and M. A. Russello. 2015. Genetics of a head-start program to guide conservation of an endangered Galápagos tortoise (*Chelonoidis ephippium*). *Conservation Genetics* 16: 823-832. (1.52 IF)
7. Milián-García, Y., E. L. Jensen, J. Madsen, S. Alvarez Alonso, A. Serrano Rodriguez, G. Espinosa Lopez, and M. A. Russello. 2015. Founded: genetics reconstruct lineage diversity and kinship within on-island captive populations of Cuban Amazon parrots to inform *ex situ* conservation. *Journal of Heredity* 106: 575-579. (2.09 IF)
6. Shafer, A. B., J. B. W. Wolf, P. C. Alves, L. Bergström, M. W. Bruford, I. Brännström, G. Colling, L. Dalén, L. De Meester, R. Ekblom, K. D. Fawcett, S. Fior, M. Hajibabaei, J. A. Hill, A. R. Hoezel, J. Höglund, E. L. Jensen, J. Krause, T. N. Kristensen, M. Krützen, J. K. McKay, A. J. Norman, R. Ogden, E. M. Österling, N. J. Ouborg, J. Piccolo, D. Popović, C. R. Primmer, F. A. Reed, M. Roumet, J. Salmona, T. Schenekar, M. K. Schwartz, G. Segelbacher, H. Senn, J. Thaulow, M. Valtonen, A. Veale, P. Vergeer, N. Vijay, C. Vilà, M. Weissensteiner, L.

- Wennerström, C. W. Wheat, and P. Zieliński. 2015. Genomics and the challenging translation into conservation practice. *Trends in Ecology & Evolution* 30:78-87. (15.27 IF)
5. **Jensen, E. L.**, P. Govindarajulu, and M. A. Russello. 2015. Genetic assessment of taxonomic uncertainty in Painted Turtles. *Journal of Herpetology* 49: 314-324. (0.91 IF)
 4. Morbey, Y., **E. L. Jensen**, and M. A. Russello. 2014. Time scale matters: genetic analysis does not support adaptation-by-time as the mechanism for adaptive seasonal declines in kokanee reproductive lifespan. *Ecology and Evolution* 4:3714-3722. (2.44 IF)
 3. **Jensen, E. L.**, P. Govindarajulu, and M. A. Russello. 2014. When the shoe doesn't fit: applying conservation unit concepts to western painted turtles at their northern periphery. *Conservation Genetics* 15:261-274. (1.52 IF)
 2. **Jensen, E. L.**, P. Govindarajulu, J. Madsen, and M. A. Russello. 2014. Extirpation by introgression?: Genetic evidence reveals hybridization between introduced *Chrysemys picta* and endangered Western Painted Turtles (*C. p. bellii*) in British Columbia. *Herpetological Conservation and Biology* 9:342-353. (0.70 IF)
 1. **Jensen, E. L.**, L. M. Dill, and J. F. Cahill. 2011. Applying behavioral-ecological theory to plant defense: light-dependent movement in *Mimosa pudica* suggests a trade-off between predation risk and energetic reward. *American Naturalist* 177:377-381. (4.17 IF)

PUBLICATIONS IN PREP

- Jensen, E. L.**, J. M. Miller, D. L. Edwards, R. C. Garrick, W. Tapia, A. Caccone, and M. A. Russello. Temporal mitogenomics of Pinzón Galapagos tortoises reveals potential biases in population genetic inference. *Journal of Heredity*, submitted December 30, 2018 [MS: 2017-247]
- Miller, M. J., M. C. Quinzin, D. L. Edwards, D. A. R. Eaton, **E. L. Jensen**, M. A. Russello, J. P. Gibbs, W. Tapia, D. Rueda, and A. Caccone. Genome-wide assessment of diversity and divergence among extant Galápagos giant tortoise species. *Ecology and Evolution*, submitted October 9, 2017 [MS: 17-0341]
- Jensen, E. L.**, D. L. Edwards, R. C. Garrick, J. M. Miller, J. P. Gibbs, L. J. Cayot, W. Tapia, A. Caccone, and M. A. Russello. Population genomics through time corroborates bottleneck theory and conservation action. *In revision following review.*
- Reid, B. N., J. M. Kass, S. Wollney, **E. L. Jensen**, M. A. Russello, E. M. Viola, J. Panthophlet, J. B. Iverson, M. Z. Peery, C. J. Raxworthy and E. Nario-Maciel. Disentangling the genetic effects of refugial isolation and range expansion in a trans-continentally distributed species. *In revision following review.*

BOOK CHAPTER

- Russello, M. A. and **E. L. Jensen**. (Submitted) *Ex situ* conservation genetics in the age of genomics. In: Population Genomics: Wildlife (ed. Hohenlohe, P.). Springer Publishing, New York

OTHER PUBLICATIONS

Jensen, E. L. 2014. Additional analysis on the genetic aspects of Coastal Western Painted Turtle populations and draft guidance for conservation. Document commissioned by the British Columbia Ministry of Environment

ORAL PRESENTATIONS [*PRESENTER]

Evelyn L. Jensen*, Adalgisa Caccone, and Michael A. Russello. Genome-wide historical DNA analysis reveals insights into population genetic theory and conservation practice. *Evolution* 2017; June 23-27, 2017; Portland, OR.

Evelyn L. Jensen*. Learning from the past, examining the present and planning for the future: Genetic approaches to the conservation of giant Galápagos tortoises. PhD Diversity and Excellence Research Award Symposium at the Canadian Society for Ecology and Evolution Meeting; May 8-10, 2017; Victoria, BC.

Evelyn L. Jensen*, Adalgisa Caccone, and Michael A. Russello. Genomic consequences of population decline and recovery in the Pinzón Island Galápagos Tortoise. Symposium on Genomics of Agriculture & the Environment: November 16, 2016; Kelowna, BC.

Evelyn L. Jensen*, Adalgisa Caccone, and Michael A. Russello. Genomic consequences of population decline and recovery in the Pinzón Island Galápagos Tortoise. *Evolution* 2016; June 17-21, 2016; Austin, TX.

Evelyn L. Jensen*. Using genetics to understand the past, present and future of the Giant Galápagos Tortoises on Pinzón Island. Biology Graduate Student Society Seminar Series; February 4, 2016, Kelowna, BC.

Michael A. Russello*, **Evelyn L. Jensen***, and Matthew Lemay*. How DNA Can Inform Biodiversity Conservation: Case Studies from the Okanagan. Okanagan Water and Biodiversity Forum; September 16-17, 2014; Kelowna, BC.

Evelyn L. Jensen*. Genetics of a head-start program: Conserving the Giant Galápagos tortoises. BGSS Biology Graduate Student Society Seminar Series; February 12, 2014, Kelowna, BC.

Evelyn L. Jensen*, Purnima Govindarajulu and Michael A. Russello. When the shoe doesn't fit: applying conservation unit concepts to the Western Painted Turtle in British Columbia. Canadian Society for Ecology and Evolution Meeting; 2013 May 12-15; Kelowna, BC.

Evelyn L. Jensen*. Conservation genetics of the western painted turtle in British Columbia. BGSS Biology Graduate Student Society Seminar Series; October 10, 2012, Kelowna, BC.

POSTER PRESENTATIONS [*PRESENTER]

Evelyn L. Jensen*, Adalgisa Caccone, and Michael A. Russello. Genomic consequences of population decline and recovery in the Pinzón Island Galápagos Tortoise. Poster presented at the British Columbia EcoEvo retreat; 2016, November 4-6; Brackendale, BC.

Evelyn L. Jensen*, Adalgisa Caccone, and Michael A. Russello. Genomic consequences of population decline and recovery in the Pinzón Island Galápagos Tortoise. Poster presented at the UBC Okanagan Biology Graduate Symposium; 2016, September 6; Kelowna, BC.

Evelyn L. Jensen*, Arne Mooers, Adalgisa Caccone, and Michael A. Russello. Incorporating

evolutionary isolation and complementarity in ranking giant Galápagos tortoises for conservation using genetic networks. Poster presented at the British Columbia EcoEvo retreat; 2015, November 13-15; Brackendale, BC.

Evelyn L. Jensen*, Arne Mooers, Adalgisa Caccone, and Michael A. Russello. Incorporating evolutionary isolation and complementarity in ranking giant Galápagos tortoises for conservation using genetic networks. Poster presented at the UBC Okanagan Biology Graduate Symposium; 2015, September 11; Kelowna, BC.

Evelyn L. Jensen*, Washington Tapia, Adalgisa Caccone, and Michael A. Russello. Genetics of a head-start program to guide conservation of an endangered Galápagos tortoise (*Chelonoidis ephippium*). Poster presented at the British Columbia EcoEvo Retreat; 2014 November, 7-9; Brackendale, BC.

Evelyn L. Jensen*, Washington Tapia, Adalgisa Caccone, and Michael A. Russello. Genetics of a head-start program to guide conservation of an endangered Galápagos tortoise (*Chelonoidis ephippium*). Poster presented at the American Genetic Association meeting; 2014 June, 27-29; Seattle, WA

Evelyn L. Jensen*, Jeanette Madsen, Purnima Govindarajulu and Michael A. Russello. Extirpation by Introgression?: Investigating the genetic consequences of released *Chrysemys picta* on endangered *C. p. bellii* in British Columbia. Poster presented at the First Joint Congress on Evolution; 2012 July 6-12; Ottawa, Ont.

INVITED TALKS

2016 “Learning from the past, examining the present and planning for the future: Genetic approaches to the conservation of giant Galápagos tortoises”, Central Okanagan Naturalists Club, Kelowna, BC

2016 “Using genetics to understand the past, present and future of the Giant Galápagos Tortoises on Pinzón Island”, FAB* Lab, Simon Fraser University, Burnaby, BC

TEACHING

2017 Guest Lecture, Queen’s University
Speciation and Macroevolution (1 lecture)

2011-2016 Teaching Assistant, University of British Columbia Okanagan
Evolutionary Principles and Methods (3 terms), Population Genetics (1 term), Classical Genetics (1 term), Biology for Science Majors (1 term), Physiology of Multicellular Organisms (1 term)

2011-2016 Guest Lectures, University of British Columbia Okanagan
Evolutionary Principles and Method (3 lectures), Behavioural Ecology (1 lecture),
Molecular Approaches in Ecology and Evolution (1 lecture)

MENTORING

2017-2018 Co-supervising Michelle Harwood, Undergraduate honors student, Queen’s University

- 2017 Supervised Ashlyn Ketterer, Danya Cook and Nicholas Phillipow, Directed Studies students, University of British Columbia Okanagan
- 2012 Supervised Anna Hall, Work-Study student in the lab and field, University of British Columbia Okanagan
- 2011-2012 Supervised Jeanette Madsen, Undergraduate honours student, University of British Columbia Okanagan
- 2011-2012 Senior Mentee in the Women in Science and Engineering Mentoring Program, University of British Columbia Okanagan

WORK EXPERIENCE

- 2013 Contract, British Columbia Ministry of Environment
Commissioned to write a guidance document outlining recommendations for conserving western painted turtles based on genetic evidence.
- 2012 Research Assistant, Ecological and Conservation Genomics Lab, University of British Columbia Okanagan
Performed genotyping of trawl samples of Kokanee salmon to assign ecotype.
- 2010 Technician, Carcass and Meat Science Lab, University of Alberta
Conducted fat analysis of pork tissue and tested prototype equipment for the spectral analysis of beef tissue in collaboration with the Faculty of Engineering.
- 2009-2010 Lab Technician, Experimental Plant Ecology Lab, University of Alberta
Processed large sample sizes (N>1000) of dried plant and root tissue.

INVITED REVIEWER

Amphibia-Reptilia, Conservation Genetics, Conservation Genetics Resources, PLoS One, Molecular Ecology, Molecular Ecology Resources, Proceedings of the Royal Society B: Biological Sciences, The European Zoological Journal.

WORKSHOPS ATTENDED

- 2015 “ConGen”, a bioinformatics analysis workshop, Flathead Lake Biological Station, Montana, USA
- 2014 “Collections-based research in the genomic era”, a meeting at the Linnean Society, London, England
- 2014 “ConGenOmics”, a European Science Foundation workshop in Uppsala, Sweden

PROFESSIONAL SOCIETY MEMBERSHIPS

American Genetic Association
American Naturalists Society
Canadian Society for Ecology and Evolution
Society for the Study of Evolution

COMMITTEE MEMBERSHIPS

- 2016 Member of a working group on Conservation and Phylogenies, funded by the Canadian Institute for Ecology and Evolution
- 2012-2016 Mentee Liason on the Women in Science and Engineering Mentoring Program planning committee, University of British Columbia Okanagan
- 2011-2014 Executive Member of the Biology Graduate Students Society, University of British Columbia Okanagan
- 2011-2014 Advisor to the Western Painted Turtle Recovery Team, British Columbia Ministry of Environment
- 2014-2015 Member of the hiring committee for the position of Assistant Professor, Department of Biology, University of British Columbia Okanagan
- 2013 Volunteer Coordinator and Public Outreach Committee Member for the Canadian Society for Ecology and Evolution Meeting 2012
- 2012-2013 Member of the Dean of Graduate Studies Student Advisory Committee, University of British Columbia Okanagan

VOLUNTEER ACTIVITIES

- 2016-2017 Dog visitation with seniors with developmental disabilities at the Summit Center, North Shore ConneXions Society, North Vancouver BC
- 2013-2016 Therapy Dog Handler for the Building Academic Retention through K9s (BARK) program, University of British Columbia Okanagan
- 2008-2009 Classroom Demonstrator for ScienceFUNDamentals, a program in elementary schools, Edmonton, AB