Jeffrey M. DaCosta, Ph.D.

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EDUCATION	
2014	Ph.D. Biology Department of Biology, Boston University, Boston, MA Academic Advisor: Dr. Michael Sorenson
2006	M.Sc. Biology School of Life Sciences, University of Nevada, Las Vegas, NV Academic advisors: Dr. John Klicka and Dr. Brett Riddle
1998	B.S. Biology Department of Biology, University of Massachusetts, Amherst, MA
PROFESSIONAL APPOINTMENTS	
2014-Present	Post-doctoral Fellow Dept. Organismic and Evolutionary Biol., Harvard University, Cambridge, MA Comparative genomics of a species radiation: sequencing the apple tribe
2004-Present	Research Equipment Program Chair and Board Member Neotropical Grassland Conservancy NGO dedicated to the conservation of Neotropical grasslands
2007-2014	Research and Teaching Fellow Department of Biology, Boston University, Boston, MA
2005-2006	Research Technician School of Life Sciences, University of Nevada, Las Vegas, NV Surveys of flammulated owls (<i>Otus flammeolus</i>) in Nevada
2003-2006	Research and Teaching Assistant School of Life Sciences, University of Nevada, Las Vegas, NV
2000-2003	R&D Specialist I Transkaryotic Therapies, Cambridge, MA Pre-clinical research using a knockout mouse model
1999-2000	Field Assistant Dept. of Ecology and Evolutionary Biol., Cornell University, Ithaca, NY Worked for PhD candidates in David Winkler's lab at Cornell
1998	Intern US Department of Agriculture, Mapleton, OR

Population monitoring of the northern spotted owl (Strix occidentalis)

- Yant L, Arnold B, Lahner B, **DaCosta JM**, Weisman CM, Hollister JD, Salt DE, and Bomblies K. *Submitted*. Borrowed alleles and convergence: serpentine adaptation in the face of interand intraspecifc gene flow. Proceedings of the National Academy of Sciences USA.
- Peters JL, Lavretsky P, **DaCosta JM**, Bielefeld RR, Feddersen JC, Sorenson MD. *Submitted*. Population genomic data delineate conservation units in mottled ducks (*Anas fulvigula*). Biological Conservation.
- **DaCosta JM** and Sorenson MD. 2016. ddRAD-seq phylogenetics based on nucleotide, indel, and presence-absence polymorphisms: analyses of two avian genera with contrasting histories. Molecular Phylogenetics and Evolution. 94: 122-135.
- Lavretsky P, **DaCosta JM**, Hernández-Baños B, Engilis A, Sorenson MD, and Peters J. 2015. Speciation genomics and a role for the Z chromosome in the early stages of divergence between Mexican ducks and mallards. Molecular Ecology. 24: 5364–5378.
- Ebel E, **DaCosta JM**, Sorenson MD, Hill R, Briscoe A, Willmott K, and Mullen S. 2015. Rapid diversification associated with ecological specialization in Neotropical *Adelpha* butterflies. Molecular Ecology. 24: 2392-2405.
- **DaCosta JM** and Sorenson MD. 2014. Amplification biases and consistent recovery of loci in a double-digest RAD-seq protocol. PLoS One. 9: e106713.
- **DaCosta JM** and Sorenson MD. 2014. An experimental test of host song mimicry as a species recognition cue among male brood parasitic indigobirds (*Vidua* spp.). Auk: Ornithological Advances. 131: 549-558.
- Sorenson MD and **DaCosta JM**. 2011. Genotyping HapSTR loci: phase determination from direct sequencing of PCR products. Molecular Ecology Resources. 11: 1068-1075.
- **DaCosta JM**, Spellman GM, Escalante P, and Klicka J. 2009. A molecular systematic revision of two historically problematic songbird clades: *Aimiphila* and *Pipilo*. Journal of Avian Biology. 40: 206-216.
- **DaCosta JM**, Wehtje W, and Klicka J. 2008. Historic genetic structure and paraphyly within the Great-tailed Grackles. Condor. 110: 170-177.
- **DaCosta JM** and Klicka J. 2008. The Great American Interchange in birds: a phylogenetic perspective with the genus *Trogon*. Molecular Ecology. 17:1328-1343.
- **DaCosta JM**, Spellman GM, and Klicka J. 2007. Bilateral gynandromorphy in a White-ruffed Manakin (*Corapipo altera*). Wilson Journal of Ornithology. 119:289-291.
- Garcia AR, **DaCosta JM**, Pan J, Muenzer J, and Lamsa JC. 2007. Preclinical dose ranging studies for enzyme replacement therapy with idursulfase in a knock-out mouse model of MPS II. Molecular Genetics and Metabolism. 91:183-190.
- Muenzer J, Lamsa JC, Garcia AR, **DaCosta JM**, Garcia J, and Treco DA. 2002. Enzyme Replacement therapy in muccopolysaccharidosis type II (Hunter syndrome): a preliminary report. Acta Paediatrica Supplement. 91:98-99.

TEACHING EXPERIENCE

2015 Lecturer

College of General Studies, Boston University, Boston, MA

CGS NS201: Biology 1

2014 Lecturer (course designer)

Experimental College, Tufts University, Medford, MA EXP-0032-F: Renewable Energy: The Ecological Impacts

2007-2013 Teaching Fellow and Guest Lecturer*

Department of Biology, Boston University, Boston, MA

CAS BI 302: Vertebrate Zoology CAS BI 303: Evolutionary Ecology* CAS BI 407: Animal Behavior CAS BI 508: Behavioral Ecology*

ZOOL 733: Behavioral Ecology* (University of New Hampshire)

2003-2005 Teaching Assistant

School of Life Sciences University of Nevada Las Vegas, Las Vegas, NV

BIOL 189: Fundamentals of Life Science

GRANTS AND AWARDS

2013: 1st Place (poster): BU Biology Graduate Student Association student symposium.

2011: Boston University Department of Biology Outstanding Teaching Fellow.

2010: NSF DDIG – RAD phylogenetics: harnessing next-generation sequencing for molecular systematics (\$13,223).

2008: American Museum of Natural History Chapman Memorial Grant (\$2,100).

2005: UNLV Graduate Research Assistantship Training Grant (\$3,600).

2005: 1st Place (oral): UNLV Graduate and Professional Student Organization research forum.

2004-2006: UNLV Graduate and Professional Student Association grant (x4) (\$2,250).

PRESENTATIONS & WORKSHOPS

Invited Speaker:

2014: University of Massachusetts Lowell, Lowell, MA.

2013: Louisiana State University Museum of Natural History, Baton Rouge, LA.

2013: Wright State University, Dayton, OH.

2012: American Museum of Natural History, New York, NY.

2009: University of Dar es Salaam & Houghton College (Tanzania campus), Tanzania.

2008: Colby College, Waterville, ME.

Professional Meetings:

2014: Evolution, Raleigh, NC.

2012: North American Ornithological Conference, Vancouver, BC.

Jeffrey M. DaCosta Updated: January 2016 Page 3 of 4

- 2009: American Ornithologists' Union, Philadelphia, PA.
- 2009: Society of Integrative and Comparative Biology, Boston, MA.
- 2008: Evolution, Minnesota, MN.
- 2005: American Ornithologists' Union, Santa Barbara, CA.

Professional Workshops:

- 2011: Evolutionary Genomics of Non-Model Species: Next Generation Sequencing, Data Management, and Hypothesis Testing. American Genetics Association, Irapuato, Mexico.
- 2010: Genetics and Genomics of Speciation. EU Marie Curie Initial Training Network, Speciation, Sheffield, Great Britain.

SERVICE AND COMMUNITY OUTREACH

Grant Reviewer: National Science Foundation, Portuguese Foundation of Science and Technology.

Journal Reviewer: African Journal of Ecology, Auk: Ornithological Advances, BMC Evolutionary Biology, Evolution, Journal of Biogeography, Molecular Ecology, Molecular Phylogenetics and Systematics, PeerJ, Wilson Journal of Ornithology.

Guest Lecturer: Boston University GK-12 program, 5th grade, Pierce School, Brookline, MA.

Volunteer Scientist: Hunkle Elementary School ScienceFest; Biology Inquiry and Outreach with Boston University Graduate Students (BIOBUGS).

Judge: The English High School Science Fair.

Jeffrey M. DaCosta Updated: January 2016 Page 4 of 4