

Richard T. Lapoint

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Education:

6/2006 – 5/2011	Ph.D., Environmental Science, Policy, and Management University of California, Berkeley, CA
9/2005 – 5/2006	Ph.D. Candidate, Biology University of Vermont, Burlington, VT
9/2001 – 5/2005	B.S., Major: Biosciences & Technology, Minor: Genetics University of New Hampshire, Durham, NH

Research Positions:

7/2011 – present	PERT post-doc position (NIH-Postdoctoral Excellence in Research and Training), University of Arizona, Tucson, AZ
6/2006 – 5/2011	Graduate Research Assistant, University of California, Berkeley
9/2005 – 5/2006	Graduate Research Assistant, University of Vermont
6/2004 – 8/2005	Undergraduate Research Assistant, Hubbard Center for Genome Studies, University of New Hampshire
12/2002 – 6/2003	Undergraduate Research Assistant, UNH Dairy Nutrition Lab, University of New Hampshire

Research Interests:

My research interests focus on the evolution of Drosophilidae, a diverse and scientifically important lineage of Diptera. The Hawaiian Drosophilidae system is an ideal clade to study the evolution of local and global biogeographies, diverse ecologies, and varied morphologies. I employ population genetics, phylogenetics and genomics to uncover the drivers of speciation within this spectacular radiation.

Teaching Experience:

Instructor, Pima Community College, Desert Vista Campus:
 Fall 2012 Biology for Allied Healthcare professionals Bio156IN

Graduate Student Instructor, UC, Berkeley:
 Spring 2009 Principles of Biology BIO1B
 Spring 2010 Molecular Ecology ESPM/IB C149

Graduate Teaching Assistant, UVM:
 Fall 2005 Ecology/Evolution BCOR 103
 Spring 2006 Introductory Biology BCOR 12

Undergraduate Teaching Assistant, UNH:
 Spring 2005 Introductory Biology BIOL 412

Professional Memberships:

3/2006 – present	Society of Systematic Biologists
8/2010 – present	Entomological Society of America

4/2010 – 12/2011	European Society for Evolutionary Biology
8/2006 – 12/2009	Genetics Society of America
9/2006 – 5/2011	Bay Area Biosystematists
9/2006 – 5/2011	UC, Berkeley, Entomology Student Organization

Workshops Attended:

2006	Tucson Stock Center <i>Drosophila</i> Species Identification Symposium, participant
2007	UC Berkeley Intro to Programming for Bioinformatics, participant
2011	Bodega Bay Phylogenetics Workshop, participant
2012	PERT pedagogy workshop, participant
2012	IRACDA International Meeting – professional development and teaching, participant

Service:

12/2005 – present	Reviewer for <i>Molecular Phylogenetics and Evolution</i> , <i>Molecular Ecology</i> , <i>BMC biology</i> , <i>Evolution</i> , <i>Biology Letters</i>
2009	Graduate student admissions reviewer
8/2006 – 5/2011	Mentor for undergraduate independent research projects – UC, Berkeley
11/2006 – 5/2011	Active member of Entomological Student Organization (ESO) managed campus wide ESO events (specifically “Darwin Day”)

Collecting Experience:

I have collected extensively across the Hawaiian Islands for my dissertation: 6 trips to the Island of Hawaii of 10+ days (2006-2012); 5 days collecting on Molokai (2007); 8 days collecting on Lanai and across Maui (2008); 12 days collecting on Kauai (2010). I have also collected *Drosophila* extensively in AZ, CA, OR, and WA. I have experience with acquiring permits from multiple collecting agencies: The Nature Conservancy, Hawaii Volcanoes National Parks, Division of Forestry and Wildlife, Natural Area Reserves System, Hawaii Experimental Tropical Rainforests.

Grants & Awards:

2013	NSF pre-proposal – Co-PI of Systematics grant “Phylogenetics of the genus <i>Scaptomyza</i> : biogeographic origins and ecological innovations”
2012	National Geographic Society Research and Exploration Grant - \$21000
2011	PERT fellowship (Postdoctoral Excellence in Research and Training), University of Arizona, Center for Insect Science, 3-year NIH post-doctoral position – stipend and \$7000 research/year
2011	National Tropical Botanical Garden Travel Award - \$800
2011	UC Entomological Student Organization Travel Grant - \$200
2010	Keen Fellowship in Forest Entomology - semester stipend
2007 - 2011	Walker Grant in insect systematics - \$1200/year
2010	ESEB Travel Award - \$500
2010	ESPM departmental travel fund - \$200
2008	UC Entomological Student Organization Travel Grant - \$200
2007	UC Entomological Student Organization Travel Grant - \$200
2007	Keen Fellowship in Forest Entomology – semester stipend
2007	Harvey I. Magy Memorial Scholarship - semester stipend

Publications:

- Lapoint, R.T.**, Gidaya A., Magnacca, K.N., and O’Grady, P.M. In prep. Phylogenetics of the *antopocerus*-modified tarsus clade of Hawaiian *Drosophila*: Diversification Across the Hawaiian Islands.
- Lapoint, R.T.**, O’Grady, P.M., and Whiteman, N.K. In revision. Diversification and dispersal of the Hawaiian Drosophilidae: the evolution of *Scaptomyza*
- Lapoint, R.T.** and Whiteman, N. 2012. How a bird is an island. *BMC Biology* 10:53. (Commentary).
- Whiteman, N.K., Gloss, A.D., Sackton, T.R., Groen, S.C., Humphrey, P.T., **Lapoint, R.T.**, Sonderby, I., Halkier, B.A., Ausubel, F.M., Pierce, N.E. 2012. Genes involved in the evolution of herbivory by a leaf-mining drosophilid fly. *Genome Biology and Evolution* 4: 788-804.
- Lapoint, R.T.**, Gidaya, A., and O’Grady, P.M. 2011. Phylogenetic Relationships in the Spoon Tarsus Subgroup of Hawaiian *Drosophila*: Conflict and Concordance Between Gene Trees. *Molecular Phylogenetics and Evolution* 58(3): 492-501.
- O’Grady, P.M., **Lapoint, R.T.**, Bonacum, J., Lasola, J., Owen, E., Wu, Y., and DeSalle, R. 2011. Phylogenetic and ecological relationships of the Hawaiian *Drosophila* inferred by mitochondrial DNA analysis. *Molecular Phylogenetics and Evolution* 58(2): 244-256.
- O’Grady, P.M., Magnacca, K.N., and **Lapoint, R.T.** 2010. Taxonomic relationships within the endemic Hawaiian Drosophilidae. *Records of the Hawaii Biological Survey* 108: 3-35.
- Lapoint, R.T.**, Magnacca, K.N., and O’Grady, P.M. 2009. Review of the *spoon tarsus* subgroup of Hawaiian *Drosophila* (Drosophilidae: Diptera), with a description of one new species. *Zootaxa* 2003: 53-68.
- O’Grady, P.M., Magnacca, K.N., and **Lapoint, R.T.** 2009. *Drosophila*. In: *Encyclopedia of Islands* (Gillespie, RG and Clague, D, eds.). Pp. 232-235. University of California Press, Berkeley, CA. (encyclopedia entry)
- Kaneshiro, K.Y. and **Lapoint, R.T.** 2009. *Sexual Selection*. In: *Encyclopedia of Islands* (Gillespie, R.G. and Clague, D., eds.). Pp. 825-829. University of California Press, Berkeley, CA. (encyclopedia entry)
- O’Grady, P.M., **Lapoint, R.T.** and Bennett, G.M. 2008. The potential and peril of the supertree approach: A response to van der Linde and Houle. *Insect Systematics and Evolution* 39: 269-280.
- O’Grady, P.M., Ashburner, M., Castrezana, S., DeSalle, R., Kaneshiro, K.Y., **Lapoint, R.T.**, Magnacca, K.N., Markow, T.A., McAllister, B., Ruíz, A., Vilela, C.R., and Val, F.C. 2008. Comment on the proposed conservation of usage of *Drosophila* Fallén, 1823 (Insecta, Diptera). *Bulletin of Zoological Nomenclature* 65(2): 141-144.
- Drosophila Chromosome Working Group.** 2008. Polytene chromosomal maps of 11 *Drosophila* species: The order of genomic scaffolds inferred from genetic and physical maps. *Genetics* 179: 1601-1655.
- Drosophila 12 Genomes Consortium.** 2007. Evolution of genes and genomes on the *Drosophila* phylogeny. *Nature* 450: 203-218.

Presentations:

- Lapoint, R.T.**, Whiteman, N.K. and O’Grady, P.M. 2012. “Phylogenetics of an ecologically diverse and widespread lineage of *Drosophila*.” Hexapodium. Tucson, AZ. Invited Talk
- Lapoint, R.T.**, Whiteman, N.K. and O’Grady, P.M. 2012. “Biogeography of the globally distributed and diverse genus, *Scaptomyza*.” 14th Pacific Entomology Conference. Honolulu, HI. Invited Talk
- Lapoint, R.T.**, Whiteman, N.K. and O’Grady, P.M. 2011. “Systematics and biogeography of the

- ecologically diverse genus, *Scaptomyza*.” Entomology Society of America. Reno, NV. Talk
- Lapoint, R.T.** and O’Grady, P.M. 2011. “Phylogenetics of the *antopocerus-modified tarsus* clade of Hawaiian *Drosophila*: diversification across the Hawaiian Islands.” Evolution of Life on Pacific Islands and Reefs Conference. Honolulu, HI. Talk
- Lapoint, R.T.** and O’Grady, P.M. 2010. “Diversification in the *Antopocerus, modified tarsus* and *ciliated tarsus* clade of Hawaiian *Drosophila*.” Entomology Society of America. Entomological Society of America. San Diego, CA. Talk
- Lapoint, R.T.** and O’Grady, P.M. 2010. “Phylogenetic relationships in the spoon tarsus subgroup of Hawaiian *Drosophila*: Conflict and concordance between gene trees.” American Genetics Association Annual Symposium. Hilo, HI. Poster
- Lapoint, R.T.** and O’Grady, P.M. 2010. “A Refined Analysis of the Biogeography of *Drosophila waddingtoni* across the Hawaiian Islands.” Evolution 2010. Portland, OR. Talk
- Lapoint, R.T.** and O’Grady, P.M. 2009. “Biogeography of *Drosophila waddingtoni* on the Hawaiian Islands.” Evolution 2009. Moscow, ID. Talk
- Lapoint, R.T.**, Bennett, G.M. & P.M. O’Grady. “Phylogenetics of the genus *Drosophila*: Difficulty despite a large dataset.” 2008 ESPM Graduate Research Symposium. Berkeley, CA. Poster
- Lapoint, R.T.** and O’Grady, P.M. 2007. “Population Genetics of a Recently Divergent Group of Hawaiian *Drosophila*.” 48th Annual *Drosophila* Research Conference. Philadelphia, PA. Poster
- Lapoint, R.T.** and O’Grady, P.M. 2006. “Preliminary Data on the Spoon Tarsus Clade of the Hawaiian *Drosophila*.” Graduate Research Symposium. UVM, Burlington, VT. Poster
- Lapoint, R.T.**, Wilkinson, B and T.D. Kocher. 2005. “Rapid Evolution of Sex Determining Systems in East African Cichlid Fish.” COLSA Undergraduate Research Conference. UNH, Durham, NH. Poster