Professional Curriculum Vitae
Sean P. Mullen

Fields of Interest

Hybridization, Adaptation, Speciation, Mimicry, Evolutionary Genomics, Functional Genetics

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Current Position

Associate Professor, Boston University, Department of Biology & Center for Ecology and Conservation Biology.

Director, Tropical Ecology Program

5 Cummington Mall
Boston, Massachusetts 02215
United States of America

Tel: + 1 617-358-4589
Fax: + 1 617-353-6340
E-mail: smullen@bu.edu

Education History

1999-2006 Ph.D., Ecology and Evolutionary Biology, Cornell University, Ithaca, NY USA

1997-1999 M.S., Biology, Villanova University, Villanova, PA, USA.

1991-1995 B.S., Biology, Dickinson College, Carlisle, PA, USA

Professional Employment

2016 - Present Associate Professor, Dept. of Biology, Boston University, Boston, MA, USA.

2010 – 2016 Assistant Professor. Dept. of Biology, Boston University, Boston, Ma., USA.

2007 – 2010 Assistant Professor. Dept. of Biological Sciences, Lehigh University, Bethlehem, PA., USA.

2005 – 2007 NIMH NRSA Postdoctoral Research Fellow - Department of Biology, University of Maryland, College Park, MD, USA.

RESEARCH

Honors & Awards

2019 Center for Teaching and Learning, Faculty STEM writing Fellowship, Boston University

2006 Ruth L. Kirschstein National Research Service Award Postdoctoral Fellowship – NIH Howard Hughes Postdoctoral Fellowship in Bioinformatics and Genomics – Declined.

2005 "*Advances in Genome Technology and Bioinformatics*", Tuition Scholarship, MBL-Woods Hole, USA.

	Outstanding Graduate Teaching Assistant Award, Department of Ecology and Evolutionary Biology, Cornell University, USA.
2004	Doctoral Dissertation Improvement Grant, National Science Foundation, USA
2003	"*Workshop on Molecular Evolution*", Tuition Scholarship, MBL-Woods Hole , USA.
2002	Cornell Environmental Inquiry Research Partnership (CEIRP) K-12 Teaching Fellowship, National Science Foundation, USA
	Kieckhefer Adirondack Fellowship, Three Awards (2001-03)
	Edna Bailey Sussman Fund, Environmental Field Research Award
2001	Theodore Roosevelt Memorial Grant, American Museum of Natural History.
2001	The Joan Mosenthal DeWind Award, The Xerces Society.
1998	Biology Department Research Fellowship, Villanova University

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Grants and Fellowships Awarded

2019-2021 Rotjan, R., and Mullen, S.P. Inferring effective population sizes, inbreeding, and demography of Pacific tuna stocks using larval icthyoplankton from the Pheoenix Island Protected Area.

- Waitt Foundation Total Award $50,000
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2016-2018 Flaxman, S.M., Mullen, S.P. How predictable is the evolving genomic architecture of speciation?
NSF DEB Evolutionary Processes – Funded as an EAGER award to Flaxman.
Total Award $299,978

2014-2018 Dimensions: Collaborative Research: Connecting the proximate mechanisms responsible for organismal diversity to the ultimate causes of latitudinal gradients in species richness

- NSF Award #1342712 (Mullen: PI) $573,985

Total Award $1,988,908

2010-2013 Collaborative research: The comparative genetics of wing pattern diversity in mimetic butterflies

- NSF Award #1020136 (Mullen: PI) $471,760

Total Award $986,722

2010-2012 The conservation genetics of *Speyeria callippe*.

- Department of Interior, United States Fish & Wildlife Agency
  BU-USFWS Cooperative Agreement #81420-A-J506 $90,690

2009-2010 The developmental basis of mimetic wing pattern variation in butterflies

- Howard Hughes, Biodynamics Summer Institute Award $58,000

2007-2008 Color pattern evolution and mimicry in butterflies

- Faculty Innovation Grant, Lehigh University $25,000

2003-2005 Hybridization, mimicry, and species boundaries in the *Limenitis arthemis* admiral butterfly complex.

- National Science Foundation DDIG Award #: 0407499 $11,355

2000-2005 Hybridization, mimicry, and the evolution of wing pattern diversity in North American admiral butterflies

- Grants from multiple sources $30,000

Publications – Refereed articles

2020 **Mullen, SP**, VanKuren, NW, Zhang, W, Nallu, S, Kristiansen, EB, Wuyun, Q, Liu, K, Hill RI, Briscoe, AD, and Kronforst, MK. Disentangling population history and character evolution among hybridizing lineages. *Molecular Biology and Evolution*. https://doi.org/10.1093/molbev/msaa004

2019 Semenov, GA, Safran, RJ, Smith, CCR, Turbek, SP, **Mullen, SP**, Flaxman, SM. Unifying theoretical and empirical perspectives on genomic differentiation. *Trends in Ecology and Evolution*. https://doi.org/10.1016/j.tree.2019.07.008

2019 Wuyun, Q., VanKuren, N. W., Kronforst, M., **Mullen, S.P**., & Liu, K. J. (2019, September). Scalable Statistical Introgression Mapping Using Approximate Coalescent-Based Inference. In *Proceedings of the 10th ACM International Conference on Bioinformatics, Computational Biology and Health Informatics*(pp. 504-513). ACM.

2019 Hill, RI, **Mullen, SP**. Adult feeding as a potential mechanism for unprofitability in Neotropical *Adelpha* (Limenitidini, Limenitidinae, Nymphalidae). *J. Lep. Soc*, 73(1): 2019.

2018 Maytin, A. K., Davies, S. W., Smith, G. E., **Mullen, SP**., & Buston, P. M. De novo transcriptome assembly of the clown anemonefish (*Amphiprion percula*): A new resource to study the evolution of fish color. *Frontiers in Marine Science*, *5*, 284.

2018 Hill, RI, Ganeshan, W, Wourms, L, Kronforst, MR, **Mullen SP**, Savage WK. Effectiveness of DNA barcoding in Speyeria butterflies at small geographic scales. *Diversity* 10(4):10pages.

2018 Schilling, MP, **Mullen SP**, Kronforst MR, Safran RJ, Nosil P, Feder JL, Gompert Z, & Flaxman, SM. Transitions from single- to multi-locus processes during speciation. Genes, Invited submission. *Genes 9(6):26*

2018 Kristiansen EB, Finkbeiner SD, Hill RI, Prusa L, and **Mullen SP**. Testing the adaptive hypothesis of Batesian mimicry among hybridizing butterfly lineages. *Evolution 72(7):1436-1448.*.

2018 Finkbeiner, SD, Salazar PA, Nogales S, Rush CE, Briscoe AD, Hill RI, Kronforst MR, Willmott KR, and **Mullen SP**. Frequency-dependence shapes the adaptive landscape of i mperfect Batesian mimicry. *Proc. Roy. Soc. B.* 285(1876). pii: 20172786. doi: 10.1098/rspb.2017.2786.

2017 Finkbeiner SD, Briscoe AD, & **Mullen SP**. Complex dynamics underlie the evolution of imperfect wing pattern convergence in butterflies. Evolution 71(4):949-959. Doi:10.1111/evo.13165.

2017 Tibbets, E.A., **Mullen, S.P**., & Dale, J. Signal function drives phenotypic and genetic diversity: the effects of signaling individual identity, quality, or behavioral strategy. *Phil. Trans. Roy. Soc. B. Biol.*, 372 (1724), 20160347.

2015 Ebel, E. R.*, Hill, R., Willmott, K.W., Sorenson, M., & **Mullen, S. P.** Rapid diversification associated with ecological specialization in Neotropical *Adelpha* butterflies. *Mol. Ecol. 24:2392-2405* DOI: 10.1111/mec.13168 (*Denotes graduate student in Mullen Lab)

2015 Frentiu, F.D., Yuan, F., Savage, W.K., Bernard, G.D., **Mullen, S.P.,** & Briscoe, A.D. Opsin clines in butterflies suggest novel roles for insect photopigments. *Mol. Biol. Evol. 32(2):369-379.*

2014 Gallant, J. R**. Imhoff, V. E., Martin, A. R., Savage, W.K., Chamberlain, N., Pote, B*., Peterson, C.P.*, Smith, G.E.*, Evans, B. R., Reed, R. D., Kronforst, M. R. & **Mullen, S.P.** Ancient homology underlies adaptive mimetic diversity in butterflies. *Nat. Commun. 5.* doi:10.1038/ncomms5817. (Corresponding author)
(**Denotes postdoc, *undergraduate or graduate student in Mullen lab)

2014 Shaw, K.L. and **Mullen, S.P.** Speciation Continuum. (Invited editorial). *J. of Hered.* 105(S1):741-42.

2014 Kunte, K., Zhang, W., Tenger-Trolander,A., Palmer, D.H., Martin, A., Reed, R.D., **Mullen, S.P.**, Kronforst, M.K. *doublesex* is a mimicry supergene. *Nature* 507(7491):229-32.

2014 **Mullen, S.P.** & Shaw, K. L. Recent progress connecting pattern to process in insect speciation. *Annu. Rev. Entomol. 59:339-61.* (Corresponding author)

2014 Iyengar, V. K., Castle, T. & **Mullen, S. P.** Signal divergence among *Calopteryx* damselflies correlated with increased male-male aggression. *Behav. Ecol. Sociobiol. 68:275-282.* (Corresponding author).

2013 **Mullen, S.P.** Hybrid zones. *Oxford Bibliographies in Evolutionary Biology.* Oxford University Press. http://www.oxfordbibliographies.com/view/document/obo-9780199941728/obo-9780199941728-0040.xml.

2013 Kronforst, M.K., Kapan, D.D., Hansen, M., Crawford, N., Kulathinal, R. & **Mullen, S.P.** Hybridization reveals the genomic architecture of speciation. *Cell reports 5(3):667-677)*. (Corresponding author)

2013 The FroSpects Gregynog Workshop (incl. **Mullen S.P.).** Hybridization and speciation. Targeted Review. *J. Evol. Biol. 26(2):229-246.*

2012 The *Heliconius* Genome Consortium**.** Butterfly genome reveals promiscuous exchange of mimicry adaptations among species. *Nature* 487(7):94-98. (Co-principal investigator)

2012 Kronforst, M. R., Barsh, G. S., Kopp, A., Mallet, J., Monteiro, A., **Mullen, S.P**., Protas, M., Rosenblum, E. B., Schneider, C. J., & Hoesktra, H.E. Unraveling the thread of nature's tapestry: the genetics of diversity and convergence in animal pigmentation. *Pigment Cell Melanoma Res.* 25(4):411-433.

2012 **Mullen, S.P.**, K. Little, K., Draud, M, Brozek J., & Itzkowitz, M. Hybridization among Caribbean damselfish species correlates with habitat degradation. *J. Exp. Mar. Biol. Ecol.* 416-17:221-229. (Corresponding author).

2011 Shaw, K.L*. & **Mullen, S.P*.** Genes versus phenotypes in the study of speciation. *Genetica* 139(5): 649-661. (*Authors contributed equally).

2011 **Mullen, S.P**., Savage, W.K., Wahlberg, N. & Willmott, K.R. Rapid diversification and not clade age explains high diversity in neotropical *Adelpha* butterflies. *Proc. Roy. Soc. B*. 278(1713):1777-1785. (Corresponding author).

2010 Pfennig, D.W. & **Mullen, S.P.** Mimics without models: causes and consequences of allopatry in Batesian mimicry. *Proc. R. Soc. B*. 277:2577-85.

2009 Gommans, W.M., **Mullen**, **S.P.**, & Maas, S. RNA editing: a driving force for adaptive evolution? *Bioessays* 31(10): 1137-1145.

2009 Savage, W.K. & **Mullen, S.P.** A single origin of Batesian mimicry among hybridizing populations of admiral butterflies (Limenitis arthemis) rejects an evolutionary reversion to the ancestral phenotype. *Proc. Roy. Soc. B.* 276 (1677):2557-2565. (Corresponding author).

2008 Ries, L*. & **Mullen, S.P*.** A rare model limits the distribution of its more common mimic: a twist on frequency-dependent Batesian mimicry. *Evolution* 62:1798-1803. (*Authors contributed equally).

2008 **Mullen, S.P.**, Dopman, E.B. & Harrison, R.G. Hybrid zone origins, species boundaries, and the evolution of wing pattern diversity in a polytypic species complex of North American admiral butterflies (Nymphalidae: Limenitis). *Evolution* 62:1400-1417. (Corresponding author)

2008 **Mullen, S.P.**, Millar, J.C., Schal, C., & Shaw, K.L. Identification and characterization of cuticular hydrocarbons from a rapid species radiation of Hawaiian Swordtailed Crickets (Gryllidae: Trigonidinnae: *Laupala*). *J. Chem. Ecol*. 34:198-204. (Corresponding author).

2007 Danley, P.D., **Mullen, S.P.**, Lui, Quakenbush, J., & Shaw, K.L. Generation and analysis of large scale cricket expressed sequence tags (EST's) derived from a normalized, nerve chord cDNA library. *BMC Genomics* 8:109.

2007 **Mullen, S.P.** & Andrés, J. A. Rapid evolution of sexual signals in sympatric *Calopteryx* damselfies: reinforcement or "Noisy-neighbor" ecological character displacement. *J. Evol. Biol*. 20:1637-1648. (Corresponding author).

2007 **Mullen, S.P.**, Mendelson, T.C., Schal, C., & Shaw, K. L. 2007. Rapid evolution of cuticular hydrocarbons in a species radiation of acoustically diverse Hawaiian crickets (Gryllidae: Trigonidiinae: *Laupala*). *Evolution* 61(1):223-231. (Corresponding author).

2007 Reudink, M.W., Mech, S.G., **Mullen**, S.P., & Curry, R.L. Structure and dynamics of a chickadee hybrid zone. *The Auk* 124.463-478.

2006 **Mullen, S.P.** Wing pattern evolution and the origins of mimicry among North American admiral butterflies (Nymphalidae: *Limenitis*). *Molecular Phylogenetics and Evolution*. 39 (3):747-758.

2006 Lovejoy, N*., **Mullen, S.P*.**, Sword, G.A., Chapman, R.F., & Harrison, R.G. Ancient trans-Atlantic flight explains locust biogeography. *Proceedings of the Royal Society Biological Series B*. 273:767-774. (*Authors contributed equally).

2003 McIntyre, P.B., Dopman, E.B. & **Mullen, S.P.** *Elaphe obsoleta*. Predation. *Herpetological Review* 34: 66.

Publications – Book reviews & popular press (total =2)

2008 Reis, L. & **Mullen, S.P.** The biogeography of a mimicry complex: surprising discoveries in the July 4th data set. *American Butterflies* 15(3/4): 48-52.

2007 **Mullen, S.P.** Conservation and the genetics of populations. *Copeia* 2007(3):774-776.

Manuscripts in preparation

Crawford NC, McGreevy TJ, Mullen SP, & Schneider CJ. The genomic basis of local adaptation in the *Anolis marmoratus* species complex. *In prep* for *Mol. Ecol.*.

Kristiansen EB, Hill, RI, Nallu S, Zhang W, Kronforst, MK, & Mullen SP. The genomic basis of convergent evolution in admiral butterflies. *In prep* for *Nature Communications.*

Symposium Participation

2017 **Gordon Research Conference on Speciation**, Lucca, Italy. Chaired session on "Hybrid Speciation and Introgression".

2016 "**Latitudinal Gradients in Species Diversity: 50 years since Pianka**" – American Society of Naturalists, Asilomar, CA – "Rapid diversification associated with ecological specialization among Neotropical *Adelpha* butterflies".

2013 "**Speciation Continuum: A discussion on the origin of species**" - American Genetics Association. Ithaca, NY -"Ancient homology underlies adaptive mimetic diversity in butterflies". Invited Talk.

2013 Co-organizer, Symposium on "***Speciation Genomics***", Society for Molecular Biology and Evolution, Chicago, IL, USA

2013 Participant, 4th International Meeting of the *Heliconius* Genome Sequencing Consortium, Harvard Museum of Natural History, Cambridge.

2011 Participant in Frontiers in Speciation workshop entitled "***Hybridization & Speciation***", Gregynog Hall, Wales, U.K.

2010 "**Genetics and the Origin of Species: The Continuing Synthesis**", Ithaca, NY USA (July 22nd -23rd) – "Genes vs. Phenotypes in the Study of Speciation". Invited Talk.

2010 **6th International Butterfly Biology Conference**, Edmonton, Alberta (June 2010) - **"**Comparative genetic mapping reveals unexpected diversity in the genetic control of mimetic wing pattern variation across three distantly related butterfly species." Invited Talk

2010 "***The Genetics and Evolution of Animal Coloration***". Hopi Hoekstra & Marcus Kronforst, Organizers, April 22-23, 2010 - "*Melanism and mimicry in butterflies*" – Harvard University's Radcliffe Institute for Advanced Study. Invited Talk.

2010 Organizer – ***Lehigh Valley Ecology & Evolution Symposium***, Keynote by Ryan Calsbeek.

2007-09 Co-organizer and participant, ***Darwin Day Celebration*** at the Da Vinci Science Center, with Richard Kliman.

Conference Presentations

2019 **Society for the Study of Evolution**, Providence, RI. –"Disentangling population history and character evolution among hybridizing lineages"

2018 **American Genetics Association Symposium of "The Origins of Adaptive Radiation"**, Big Island, Hawaii – "Testing the adaptive hypothesis of mimicry in admiral butterflies.

2017 **Gordon Research Conference on Speciation**, Lucca, Italy. –Talk – "Hybrid Zones and the Evolutionary Process".

2014 **Society for the Study of Evolution**, Raleigh, NC. – "Ancient homology underlies adaptive mimetic diversity in butterflies".

2009 **Society for the Study of Evolution**, Moscow, ID - "*Finding a needle in a haystack: recent progress identifying the genomic region(s) housing mimicry genes in admiral butterflies*"

2008 **Society for the Study of Evolution**, Minneapolis, MN - "*The origins and maintenance of an admiral butterfly hybrid zone involving mimicry*"

2006 **Society for the Study of Evolution**, Stony Brook, NY - "*Biogeographic patterns of intra- vs. inter-island diversity in cuticular hydrocarbons in a rapid species radiation of Hawaiian crickets*"

2005 **Great Lakes Odonata Meeting**, 2005. University of Ottawa, Canada.- "Hybridization, Reinforcement, and Wing Pattern Evolution among North American Jewelwing Damselflies (*Calopteryx*)".

2003 **Society for the Study of Evolution**, Champaign-Urbana, IL. - "Mitochondrial DNA variation across a butterfly hybrid zone in eastern North America". *Poster Presentation*

1999 **American Ornithologist's Union**, Ithaca, New York - "Genetic and morphometric variation across a chickadee hybrid zone in southeastern Pennsylvania". *Poster Presentation*

1994 **American Society of Mammologists**, Washington, D.C. - "The Raccoon roundworm (*Baylisascaris procyonis*) as a cause for decline of Allegheny woodrat (*Neotoma magister*) populations in central Pennsylvania". *Poster Presentation*

Invited Seminars:

2019 Boston Museum of Science, Presentation about butterfly biology
2019 Cambridge Entomolocial Society, host: Avalon Owens
2018 University of Chicago, host: Marcus Kronforst
2018 Denver University, host: Shannon Murphy
2017 Clark University, host: John Gibbons
2017 Bowdoin College, host: Michael Palopoli
2017 Boston Evolutionary Genomics Super Users Meeting – Harvard OEB, host: Jim Mallet
2015 Cambridge Entomological Society, host: Naomi Pierce
2015 Michigan State University, host: Jason Gallant
2015 University of Colorado, Boulder, host: Rebecca Safran
2015 The University of Kansas, host: Jamie Walters
2014 Tufts University, host: Erik Dopman
2014 Temple University, host: Rob Kulathinal
2013 University of Hawaii, Manoa, host: Mark Wright
Tulane University, host: Cori Richards-Zawacki
U.C. Irvine, host: Adriana Briscoe
2012 Massachusetts Butterfly Club
2011 Stonehill College, host. Magdelena Peterson
2010 Cambridge Entomological Society, host: Naomi Pierce
FAS Systems Biology Center, Harvard University, host: Marcus Kronforst
Moravian College, host: Diane Husic
Boston University, host: Michael Sorenson
2009 FMNH, University of Florida, host: Keith Willmott
Cedar Crest College, host: Erika Iyengar
2008 Franklin & Marshall College, host: Dan Ardia
Villanova University, host: Robert L. Curry
2007 Fairfield University, host: Glenn Sauer
Willamette University, host: Barbara Stebbins-Boaz
Dickinson College, host: Carol Loeffler
Lehigh University, host: Murray Itzkowitz
North Carolina State University, host: Coby Schal

Popular press coverage - selected

2018 PBS Nature
2017 The Jungle Diaries: https://www.youtube.com/watch?v=4ax38AFL3_Y
2016 Anchor FM - This Amazing Earth
2014 *Nature: News & Views* - "Evolutionary Biology: Sex, Lies, and Butterflies" D.W. Loehlin & S.B. Carroll.

2012 *Science Daily* - "Genome research reveals key behind one butterfly's ability to mimic another."
2011 *This week in Evolution*, "Rapid diversification and not clade age explains high diversity in neotropical butterflies"
2011 *Bostonia Magazine, "*The secrets of butterfly wings"
2009 *Lehigh Alumni Bulletin*, "Darwin party earns national recognition for Lehigh's Sigma Xi chapter"
2008 *Lehigh Alumni Bulletin*, "Celebrating Darwin's birthday and legacy"
2006 *National Geographic Daily News*, "Ancient locust swarm crossed Atlantic, study says"

TEACHING

Associate Professor
Boston University

Introductory Biology, - 25% effort, Fall 2017-2019 - Intro. Course for majors
Introductory Biology -BU Acadamy, Fall 2016-19 – Undergraduate Course
Evolution, Fall 2011-2019 – Undergraduate Course
Evolution, Summer 2018, 2019 – Undergraduate Course
Progress in Ecology, Behavior, Evolution & Marine Science, Fall 2013 – Graduate course
Advanced Evolutionary Analysis, Spring 2013-19 – Graduate course
Species & Speciation, Fall 2012, Spring 2016– Graduate course
Population Genetics, Spring 2011– Undergraduate course

Assistant Professor (2007-2010)
Lehigh University

Integrative & Comparative Biology w/Lab, Spring 2009, 2010 – Undergraduate Course
Evolution, Fall 2007-2009 – Undergraduate Course
Species & Speciation, Spring 2008 – Graduate course

Instructor

University of Maryland, College Park
Principles of Evolution, Winter 2006 – Undergraduate Course

NSF K-12 Teaching Fellow – Cornell University

Environmental Science, The Alternative Community School, Ithaca, NY USA. - Spring 2004
Ecology, The Alternative Community School, Ithaca, NY USA - Fall 2003

Teaching Assistant – Undergraduate Courses

Introductory Biology, 1999-2001; 2004-2005
Evolution for non-majors, 2002-2003
Environmental Science, 1998; 1999
Animal Behavior, 1997

DEPARTMENTAL SERVICE

Boston University

2019 Director, Tropical Ecology Program
Graduate Committee Member
CAS General Education Curriculum Committee (GECC)
Center for Teaching & Learning Faculty Fellow – Writing in STEM
Global Change Ecology Faculty Search Committee Member

2018 Director, Tropical Ecology Program
Global Change Ecology Faculty Search Committee Member
Graduate Committee Member
Review of Master's applications
2017 Chair, Graduate Committee (Spring)
Graduate Committee Member (Fall)
Director, Tropical Ecology Program
2016: Department of Biology, undergraduate advising (n=39)
Freshman Friday
Chair, Graduate Committee
2015: Department of Biology, undergraduate advising (n=23)
EBE Graduate Committee Service – EBE grad guide revision.
Biobugs x 2
Freshmen Friday x 2
2014 Department of Biology, undergraduate advising (n=19)
2013 Department of Biology, undergraduate advising (n=26)
2012 Ecology, Behavior, Evolution, and Marine Biology Seminar Organizer
Department of Biology, undergraduate advising (n=24)
2011 Ecology, Behavior, Evolution, and Marine Biology Seminar Organizer
Department of Biology, undergraduate advising (n~18)
2011 Biobugs x 2
2010 Freshmen Friday x 3
Biomixer

Lehigh University

2010 Department of Biological Sciences, undergraduate advising (n=19)
Pool Scholars Pre-Medical Faculty Advisor
Graduate Admissions Committee
2009 Biology Seminar Series Coordinator
Pool Scholars Pre-Medical Faculty Advisor
Microbial Ecology Search Committee
Graduate Admissions Committee
Department of Biological Sciences, undergraduate advising (n=14)
2008 Graduate Admissions Committee
Department of Biological Sciences, undergraduate advising (n=11)
Undergraduate Curriculum Committee
2007 Undergraduate Curriculum Committee

Postdoctoral advisor

2017 - 2020 Martin Schilling, Ph.D. - Utah State University. Co-Advised with Dr. Samuel Flaxman, CU Boulder.

2015 - 2018 Susan Finkbeiner, Ph.D. – UC Irvine. Co-Advised with Dr. Marcus Kronforst , UChicago. *Current Position*: Assistant Professor, Pepperdine College.

2011 – 2013 Jason R. Gallant. *Current Position*: Assistant Professor, Department of Zoology, Michigan State University

2009 - 2012 Wesley K. Savage. *Current Position*: Full-time Lecturer, Department of Biology, UMass Lowell

Graduate advisor/ co-advisor.

2016 - present Isabella Muratore, Ph.D., Boston University, USA - Co-Advised with Dr. James Traniello
2014 - 2019 Evan Kristiansen, Ph.D., Boston University, USA
2012 - 2014 Emily R. Ebel, M.S., Boston University, USA
2007 - 2014 Vance Imhoff, Ph.D., Lehigh University, USA

Graduate Committee Service: Currently a committee member for 11 PhD dissertations; Prior service on ~15 completed dissertations.

EXTERNAL PROFESSIONAL SERVICE

Associate Editor – Journal of Heredity

American Genetics Association – Council Member 2014-19.

School Committee Member, Easton, MA 2015-2017.

Professional Reviews – Guest Editor

2013 Journal of Heredity
2014 Journal of Zoology

Ad-hoc Reviews – Scientific Manuscripts

Nature
PLoS Genetics
Journal of Evolutionary Biology
Animal Behavior
Molecular Ecology
Science
BMC Genomics
PLoS Biology
Molecular Biology & Evolution
PNAS
Evolution
Molecular Phylogenetics and Evolution
Proceedings of the Royal Society, Series B
Genetics
BMC Evolutionary Biology
Genetica
Nature Ecology & Evolution
Journal of the Lepidopterist Society

Ad-hoc Reviews - Proposals

2009-2019 National Science Foundation, Division of Environmental Biology, Evolutionary Processes -External Reviewer – 2-3 proposals, annually.
2010 BBSRC External Review, UK.
2009 Dutch Research Council (NWO) External Reviewer

Grant Proposal Review Panels

2018 National Science Foundation, Division of Environmental Biology, Evolutionary Processes, Ad hoc review
2017 National Science Foundation, Division of Environmental Biology, Evolutionary Ecology Full Proposal Panel.
2015 National Science Foundation, Division of Environmental Biology, Evolutionary Processes, Preproposal Panel
2014 National Science Foundation, Division of Environmental Biology, Evolutionary Processes Panel
2014 National Science Foundation, Division of Environmental Biology, Dimensions in Biodiversity
2012 National Science Foundation, Division of Environmental Biology, Evolutionary Process DDIG Panel
2010, National Science Foundation, Division of Environmental Biology, Evolutionary Process DDIG Panel
2009 National Science Foundation, Graduate Research Fellowship Panel

Professional Memberships

American Genetics Association
Society for the Study of Evolution
Society for Molecular Biology and Evolution
Lepidopterist's Society
Sigma Xi Scientific Research Society