

SCOTT VERNON EDWARDS

Alexander Agassiz Professor of Organismic and Evolutionary Biology
Curator of Ornithology, Museum of Comparative Zoology

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PERSONAL

BORN: Honolulu, Hawaii, USA 7 July 1963; married, two children.

EDUCATION

1981 - 1986 B.A. (Biology) Harvard University, *magna cum laude*. Thesis: Mitochondrial DNA variation and the phylogeny of African Mole-Rats (Rodentia: Bathyergidae)

1986 - 1992 Ph.D. (Zoology/Museum of Vertebrate Zoology) University of California, Berkeley. Thesis: Mitochondrial DNA evolution in social babblers (Aves: *Pomatostomus*)

9/92 - 9/94 Alfred P. Sloan Postdoctoral Fellow in Molecular Evolution, Center for Mammalian Genetics, U. Florida, Gainesville (W. Potts & E. K. Wakeland labs; evolution of MHC genes in birds).

CURRENT POSITION

12/03 – pres. Alexander Agassiz Professor of Organismic and Evolutionary Biology & Curator of Ornithology, Museum of Comparative Zoology, Harvard University

FELLOWSHIPS

Visiting Fellow, Institute for Applied Ecology, University of Canberra, Canberra, Australia (May 2012)

Harvard Club of Australia Visiting Fellow, Comparative Genomics Group (J. Marshall-Graves Lab), Research School of Biological Sciences Australian National University, Canberra, Australia (short sabbatical, 11-12/05)

3/02 – 6/02 Visiting Researcher, Avian Immunobiology Group (J. Kaufman Lab), Institute for Animal Health, Compton, U. K. [sabbatical leave from UW]

9/01 – 3/02 Visiting Fellow, Comparative Genomics Group (J. Marshall-Graves Lab), Research School of Biological Sciences Australian National University, Canberra, Australia [sabbatical leave from UW].

RECENT TEACHING, HARVARD UNIVERSITY

- Biology and Diversity of Birds (OEB 190): Spring 2005, 2007, 2009, 2012, 2016, 2018, 2020, 2022
- Freshman Seminar on the dinosaur/bird transition: Fall 2015
- Class field trips for OEB 190 to Panama (2012), Mexico (2009,2007), Costa Rica (2005, 2016) and locally
- Frontiers of Evolutionary Biology/Phylogenomics (OEB275r): Spring 2008, 2009, Fall 2009, 2011
- Molecular Ecology and Evolution (OEB 125): Fall 2004, 2006, 2008, Spring 2011

- Topics in Evolutionary Biology (OEB275r): Fall 2005, Spring 2006, 2007, 2011, 2012, Fall 2017
- Graduate Curriculum Planning Course for “Genomics, Evolution and Infectious Disease” (w/P. Sabeti) (OEB282) Spring 2010
- Evolutionary Genomics and the Museum (OEB275rb), Spring 2013 (connected by video to 4 campuses, including U. New Mexico, UC Berkeley, and Occidental College).

HONORS

1986	Thomas T. Hoopes Prize for senior honors thesis, Harvard University
1992	Ernst Mayr Award for best student presentation, Society of Systematic Biologists
1992 -1994	Alfred P. Sloan Foundation Postdoctoral Fellowship in Molecular Studies of Evolution
1999, 2006	Elected Member (1999) and Fellow (2006), American Ornithologists' Union
2009	Elected Fellow, American Academy of Arts and Sciences
2009	Elected Fellow, American Association for the Advancement of Science
2015	Elected Member, US National Academy of Sciences
2015	Elliot Coues Award, American Ornithologists' Union
2019	Molecular Ecology Prize
2020	Inaugural Inclusiveness, Diversity, Equity, and Access (IDEA) Award, Society for Study of Evolution (with Richard Kliman)
2020	Elected Fellow, American Philosophical Society

SERVICE TO ACADEMIC SOCIETIES

2001 – 2003	Council Member, Society for the Study of Evolution
2001 – 2003	Council Member, Society of Systematic Biologists
2006	President, Society of Systematic Biologists
2004-2006	Council, American Genetic Association (publisher of <i>Journal of Heredity</i>)
2011	President, American Genetic Association
2012	President, Society for the Study of Evolution
2016 – 2019	Council Member, American Ornithological Society (AOS)

SOCIETY MEMBERSHIPS

Life Member, Society for the Study of Evolution
 Life Member, Society for Molecular Biology and Evolution
 Life Member, Society for Systematic Biologists
 Member, American Ornithological Society (1992-present)
 Member, American Society of Naturalists (1992-2002, 2020 – pres.)

SCIENTIFIC, PUBLIC, and EDUCATIONAL SERVICE

International Consulting and Advisory Boards

Panelist and reviewer, Interdisciplinary Environments, Swedish Research Council, 2021

Member, Review Committee, School of Biological Sciences, University of Queensland, Brisbane, Australia (Sept. 2019)

Member, Evaluation Committee, Museum für Naturkund, Berlin, Germany (10/12, 9/19)

Member, External Advisory Board, National Center for Biological Sciences, Bangalore, India (1/10, 1/17, 11/19, 1/20)

Member, Scientific Advisory Board, Max Planck Institute for Evolutionary Biology, Plön, Germany (2007 – 2017)

Member, Review Committee, Research School of Biological Sciences, Australian National University, Canberra, Australia (Dec. 2016)

Scientific Planning Committee, International Ornithological Congress (Brazil and Japan meetings, 2008 – present)

National Service and Advisory Boards

Present

Board of Life Sciences, National Research Council, National Academy of Sciences (2018 - present)

Board of Directors, Cornell Laboratory of Ornithology (2007 – 2013, 2016 - present)

Board of Directors, Massachusetts Audubon Society (2007 – 2018, 2020 - present)

Member, Board of Directors, Adventure Cycling Association (2021 - present)

Member, Advisory Board, Friends of Midway Atoll National Wildlife Refuge (2020 - present)

Miller Institute Advisory Board, UC Berkeley (2021 - present)

Member, Diversity, Equity and Inclusion Committee, American Ornithological Society (2020 - present)

Advisory Board, Yale Institute for Biospheric Studies (2021 - present)

Education Committee, Society for the Study of Evolution (2020 - present)

Past

Invited participant, workshop on Biostatistics, Cold Spring Harbor Banbury Center, April 2022.

Member, Departmental Review Committee, Department of Biology, University of Utah (Sept. 2016)

Faculty participant, Mentoring workshop for the BRAINS initiative (“Broadening the Representation of Academic Investigators in Neuroscience”), University of Washington, Bainbridge Island, Sept. 2014

NIH Study Section, Genetic Variation and Evolution (GVE), National Institute of General Medical Sciences, National Institutes of Health (2012 – 2018)

Alan T. Waterman Award Committee Member, National Science Foundation (2012-2013)

National Center for Biotechnology Information (NCBI) Board of Scientific Counselors (2012 – 2017)

Board of Advisors, National Museum of Natural History, Smithsonian Institution (April 2011 – 2019)

Scientific Advisory Board, Flybase (2010 – 2014)

Member, Committee for Research and Exploration, National Geographic Society (2001 – 2009)

Committee Member, National Academy of Sciences Working Group on High-end Computing (2007)

Scientific Advisory Board, National Evolutionary Synthesis Center (NESCent; 2004 – 2009)

National Human Genome Research Institute Comparative Genome Evolution Working Group (04-07).
Member, NSF Population and Evolutionary Processes Cluster Working Group on New Frontiers in
Evolutionary Biology (3/05)

Evolutionary Synthesis Center (ESC) Workshop Participant, NSF (5/01)

Invited Faculty, Workshop in Molecular Evolution, Woods Hole, MA (1999-pres.)

Committee of Visitors for National Science Foundation Population Biology (8/00) and for Division of
Environmental Biology (6/06)

Reviewer for Australian Research Council Grants, Marsden Fund Grants (New Zealand)
and NSERC grants (Canada)

Contributor, Tree of Life Web Project (<http://www.tolweb.org/Passeriformes/15868>)

University Service

University of Washington

University of Washington Faculty Fellows Panel, 2000, 2002

Participant, Fred Hutchinson Cancer Research Center Science Education Program; Science
helper in grade school teacher training for NSF-funded project “Hands on Science in Seattle
Schools” (1995-1997)

Participant, U. Washington Howard Hughes High-School Program for Minority High School
Science Students (1995-2003)

Harvard University

Department Chair, Organismic and Evolutionary Biology (2022 - present)

Director of Graduate Studies, Department of Organismic and Evolutionary Biology (2020-
2021)

Hoopes Prize Committee (senior theses: 2007-2011, 2013; Chair, 2019 - 2021)

Faculty Council, Harvard University, 2004-2007; Summa degrees subcommittee

Faculty Representative, Administrative Board, Harvard University, 2006-2007

Curatorial consultant, Harvard Museum of Natural History exhibit “Nests and Eggs”

OEB Departmental Seminar organizer, 2004-2009

OEB Graduate Admissions Committee, 2006-2009, 2019 – pres.

Director of Graduate Studies, Department of OEB, 2020-present

Committee on College Life (2007, 2008)

Committee on General Education (2007-2009)

Dean's Priorities Committee (2008-2009)

International Travel Awards Committee (2012,2013)

FAS Standing Committee on Public Service (2012 – pres.)

FAS Standing Committee on Professional Conduct (2013 – 2016)

Chair, Harvard University Accreditation Steering Committee (6/16 – 4/18)

Member, FAS Dean Search Committee (2018)

Member, University Librarian Search Committee (2018)

Senior Advisor to FAS Dean, 2021 – present.

EDITORIAL AND GRANT PANEL SERVICE

Editorial Board, *Genetics*, 2021 - present.

Editorial Board, *Proceedings of the National Academy of Sciences* (6/18 – pres.)

Editorial Advisory Board, *Science* (2020 - present).

Associate Editor, *PeerJ* (2012-present).

Associate Editor, *Bulletin of the Society for Systematic Biologists*, 2020 - present.

Past Associate Editor for: *Molecular Phylogenetics and Evolution* (2015 – 2018); *Ecology & Evolution* (2011 – 2016); *Frontiers in Ecology & Evolution (Phylogenetics, Phylogenomics, and Systematics)* (2103- 2020); *Conservation Genetics* (2003 – 2006); *Molecular Biology and Evolution* (2003- 2010); *Systematic Biology* (1998 - 2001); *Journal of Molecular Evolution* (1998-2000); *Evolution* (1999-2002); *American Zoologist* (1999 - 2003)

Guest Editor for: *PNAS* (2010), *PLoS Genetics* (2013), *Journal for Ornithology* (2010-2011), *Systematic Biology* (2009)

Reviewer for *Science*, *Nature*, *Nature Communications*, *PNAS*, *PLoS Biology*, *Evolution*, *Molecular Biology and Evolution*, *Molecular Ecology*, *Behavioral Ecology and Sociobiology*, *Immunology Today*, *Immunogenetics*, *Molecular Phylogenetics and Evolution*, *Systematic Biology*, *Bioscience*, *Auk*, *Journal of Avian Biology*, and several others.

National Science Foundation Panel member: Dissertation Improvement Grants (12/93); Collections and Biotic Resources (3/97); Population Biology (10/98, 6/01,10/02); Symbiosis Defense & Self-Recognition (3/08)

Grant reviewer for science foundations in European Research Council, Australia, Sweden, Canada, United Kingdom, Austria, Italy, Germany, France, Chile, New Zealand and Poland.

EXTERNAL THESIS EXAMINER/READER

Robert Kusmierski, PhD Thesis on "Molecular Phylogenies of Bowerbirds Inferred from Mitochondrial Cytochrome B and Nuclear Intron Sequences", La Trobe University, Melbourne, Australia 9/97

Michele D. Binder, MSc Thesis on "Isolation and Characterisation of a Novel Avian Sex-specific Gene", University of Melbourne, Melbourne, Australia, 2/98

Mustafa Abdul Rahman, PhD Thesis on "Biogeography of Avifauna and Patterns of Variation in Little Spiderhunter (*Aracnothera longirostra*) in Southeast Asia", University of Queensland, Brisbane, Australia, 3/01.

Åsa Langefors, Ph.D., "Genetic Variation in Mhc Class II B in Atlantic Salmon: Evolutionary and Ecological Perspectives". Lund University, Lund, Sweden, 9/99

Ulf Johansson, Ph.D., "Higher level molecular systematics of Passeriformes", Swedish Museum of Natural History, Stockholm" 11/02

Camille Bonneaud, Ph.D. "Immunogenetics and Ecology of the House Sparrow (*Passer domesticus*). CNRS, Paris 9/04

Robert Ekblom, Ph.D., "Immunoecology of the Great Snipe (*Gallinago media*): Mate Choice, MHC Variation, and Humoral Immunocompetence in a Lekking Bird". Uppsala University, Uppsala 11/04.

Laura Buggiotti, Ph.D. "Avian evolutionary genomics: studies of *Ficedula* flycatchers". University of Turku, Turku, Finland. 12/07.

Camilla Whittington, Ph.D. "Evolution of venom: gene discovery in the platypus". University of Sydney, Sydney, Australia. 3/11.

Anna Runemark, Ph.D., "Island biogeography and population divergence in the Skyros wall lizard", Lund University, Sweden. 5/12.

Paul Hime, PhD Thesis on "Genomic perspectives on amphibian evolution across multiple phylogenetic scales" University of Kentucky, 2017.

Kyle Marc Ewart, PhD Thesis: "Phylogeography and population genetics of Australian threatened and invasive birds". University of Sydney, 2019

FIELDWORK HIGHLIGHTS

Collection of high-quality tissues from northern New Mexico for long-read DNA and RNA sequencing (MCZ-sponsored), May 2021.

New South Wales, Australia; focus on Australian honeyeaters to phylogenetically delimit the origin of neo-sex chromosomes. Narrabri, NSW, July 2019

Central Mongolia and northern Gobi Desert (Museum of Comparative Zoology-sponsored expedition for collecting high quality genomic resources; June-July 2018).

Southern Peru/Andes, MCZ-sponsored collecting trip (expedition leader, Jonathan Schmitt; June 2017)

Eastern Mongolia, Museum of Comparative Zoology general collecting (June 2012)

Bon Portage Island, Nova Scotia; Chemical ecology and behavioral genetics of Leach's Storm Petrels (July 2009, 2010, 2011)

West Texas, general museum collecting and surveying for *Mycoplasma* in avian populations (6/11, 1/16, 1/17)

Massachusetts, Harvard Forest. Ornithological specimen collection with MCZ staff (08/08)

Kimberly/Top End, Northern Australia, Collection of museum specimens and tissues from Australian passerines (11/05)

General ornithological museum collecting, Washington State (1996-2003)

Tern Island, French Frigate Shoals, Northwest Hawaiian Islands: Collection of blood samples from seabird colonies with emphasis on albatrosses (5/01)

Northern Territory, Queensland, Western Australia. Collection of museum specimens and tissues from treecreepers (*Climacteris*) and other passerines (8-9/97)

Eastern Australia (Queensland, New South Wales). Collection of museum specimens and tissues from treecreepers (*Climacteris*) and other passerines (8-9/96, 2/02, 9/02, 11/05, 6/07)

Fly River region, Papua New Guinea: Collection of blood samples for dissertation research (4/90)

Australia: Continent-wide collection of tissue specimens for dissertation research (1987, 1990)

CONFERENCES/SYMPOSIA CHAIRED/ORGANIZED

The rebirth of comparative phylogeography. Society for the Study of Evolution, 2023 (forthcoming). Co-organizer with Isaac Overcast and Megan Smith.

Pangenomes: Evolution and Computation, November 17, 2021, with Prof. Alexander Schleip, U. Gothenburg, Sweden (hybrid format)

Co-organizer, "The Molecular Tree of Life: From Coalescence To Comparative Genomics", Jiangsu Normal University, Xuzhou, China, May 27-31, 2018

Co-organizer (with F. Lei), symposium on "Ornithology in the Era of Genomics", The 1st AsiaEvo Conference, April 18-20, 2018, Shenzhen, China

NSF-funded symposium for Postdoctoral Research Fellowships in Biology: Research Using Biological Collections, Nov. 7-9, 2017, Harvard University

SSE 2013 Symposium: "The Role of Field Expeditions in 21st Century Evolutionary Biology". Annual meeting of the Society for the Study of Evolution, Snowbird, Utah.

Chair, Annual meeting of the American Genetic Association, "Genomics and Biodiversity". National Laboratory of Genomics for Biodiversity, Irapuato, Mexico (July 2011)

Co-organizer: Mathematical and Computational Approaches in High-Throughput Genomics,
Workshop III: Evolutionary Genomics, UCLA, November 2011

Vice Chair and Chair, Gordon Conference in Ecological and Evolutionary Functional Genomics, 2007
(Newport, Rhode Island) and 2009 (Tilton, New Hampshire), respectively.

GRANTS

Research Grants

1986 -1990	National Science Foundation Graduate Fellowship (~\$67,000)
1989	Frank M. Chapman Memorial Award (American Museum of Natural History)
1989	National Science Foundation Dissertation Improvement Grant (\$12,000)
1987,1988	Carl B. Koford and Louise Kellogg research awards (Museum of Vertebrate Zoology)
1990 -1991	Ford Foundation Dissertation Fellowship (\$18,000)
1991	National Science Foundation Graduate Student Travel Award (\$3,000)
1989,1996	National Geographic Research Grants (Molecular biogeography of Australian birds; \$7,000 in 1990; \$19,700 in 1995)
1995	National Science Foundation Grant (3 yrs.; Behavioral and parasitological correlates of MHC polymorphism in Blackbirds; DEB 9419738; \$251, 000)
1995	University of Washington Royalty Research Grant (2 yrs.; Large-scale sequencing and the evolutionary tree for birds; \$25,000)
1997	U. Washington Nathan Shock Center For Excellence in the Basic Biology of Aging (1 yr., Cloning <i>Mhc</i> genes in Budgerigars, an avian model for aging; \$42,000)
1997-1998	National Science Foundation Grant (1.5 yrs., Evolution of class II Mhc genes in birds; DEB 9707458; \$105,000)
1998	National Geographic Society Online, Featured Grantee (Sept – Nov. 1998)
1999	National Science Foundation Grant (3 yrs., Concerted evolution of class II Mhc genes in birds; DEB 9815800; \$265, 000)
2000	National Geographic Research Grant (\$13,301); Conservation genetics of black-footed albatrosses caught in North Pacific fisheries' nets
2000-2003	Evolution of a Parasite and its Recently Colonized Host (NSF DEB (IRCEB)0077804 ; 4 yrs. G. Hill, PI; S. Roberts, S. Edwards, co-PIs; \$2,034,122; \$721,812 to S.V.E.).
2001	Minority Career Advancement Award for Sabbatical Supplement in Evolutionary and Ecological Genetics – (NSF DEB-0129487; 1 yr., \$54,743)
2001-2005	Multilocus Tests of Speciation Models and Comparative Phylogeography of Australian Birds (P. Beerli co-PI; 4 yrs., NSF DEB-0108249; \$375,000)
2002 -2004	BAC Libraries for the Reptilia, Including Birds: Genomic Resources for Comparative Biology (NSF IBN-0207870; Edwards, PI; C. Amemiya, J. R. Macey, co-PIs; 2 yrs.; \$1,095,030)
2003 – 2006	Accomplishment-based renewal: Hitchhiking and Molecular Evolution of the Major Histocompatibility Complex in Birds (NSF, DEB0315806, 3 yrs., \$345,000)
2008-2011	NSF DEB 0743616 "COLLABORATIVE RESEARCH: Estimating Species Trees from Multilocus DNA Sequence Data" (co-PI, Dennis Pearl) \$450,000
2009-2012	NSF - MCB - 0817687: COLLABORATIVE RESEARCH: Evolution of Sex Chromosomes in Turtles. (PI, Nicole Valenzuela, Iowa State University; Edwards, co-PI) \$205,000
2008-2010	NSF DEB-0815705 - Collaborative Research: Multilocus Comparative Phylogeography of Pine-Oak Woodland Birds in North America (PI, Garth Spellman, Black Hill State University; co-PIs, John Klicka, and Scott Edwards) \$143,000
2009-2012	NSF IOS-0922640 - Collaborative Research: Molecular mechanisms of scent mediated self / non-self recognition in a pelagic seabird (PI, Gabrielle Nevitt, UC Davis) \$270,000
2009-2012	NSF IOS - 0923088 - Collaborative Research: Plumage redness and good genes in the House Finch - (PI, Geoff Hill, Auburn University, \$300,000)

2012-2016	NSF IOS-1258784 - Collaborative Research: A New Model For Chemical Ecology: Integrating Chemistry, Genetics and Behavior to Understand the Role of Individual Scent in a Colonial Nesting Seabird (Lead PI, Gabrielle Nevitt, UC Davis) \$270,000
2014 - 2017	NSF DEB - 1355343 - Collaborative Research: Phylogenomics of palaeognathous birds and the genomic basis of flightlessness (Lead PI, \$600,000; Julia Clarke co-PI, \$375,000)
2016 – 2018	Lemann Brazil Research Fund at Harvard University – Prioritizing biodiversity of birds and butterflies in Cerrado habitats of Brazil using geographic and phylogenetic information systems (\$147,000; N. Pierce, C. Miyaki, co-PIs)
2018 - 2023	NSF DEB-1831560 – Dimensions US-BIOTA-São Paulo: Collaborative Proposal: Traits as predictors of adaptive diversification along the Brazilian Dry Diagonal (Lead PI, \$1,994,393 total funds; \$419,334 to Harvard).
2019 – pres.	“Impacts of Desertification on Vertebrate Biodiversity in Northwest China”. Harvard Global Institute, Harvard University. PI: S. Edwards. \$98,045.
2019 – pres.	“Evolutionary responses to environmental change: comparative genomics and indigenous perspectives”. Australian National University Seed Funds, Australian National University, Canberra, Australia. \$30,000 AUD. PI: Craig Moritz.
2021 – 2025	NIH 1R01HG011485-01 - “Statistical and high-throughput models of enhancer function and evolution”, National Human Genome Research Institute, National Institutes of Health (\$2,246,451 total funds) Lead PI: Edwards. Co-PIs: Jun Liu, Tim Sackton, Emma Farley, Cliff Tabin.

External/Partner Collaborator Grants (no direct funding)

2021-2024	NSF 2109989: Collaborative Research: Reproductive heterogeneity in the structured coalescent framework. Senior Personnel; PI, Peter Beerli.
2021 – 2023	Australian Research Council DP210101738 – “Watching evolution in action using transitional forms of lizard pregnancy”. PIs, Camilla Whittington, Catharine Grueber, University of Sydney
2018 - 2021	Australian Research Council DP180103494 - “Genomic diversity, tolerance and ecology of wildlife disease”. PI, Andrew Bennett, Deakin University
2018-2021	Australian Research Council DP180103844 “Does dynamic ecological change cause rapid evolution?”. PI, Stephen Sarre, University of Canberra
2019 – pres.	ANU Seed Funds, Australian National University, “Evolutionary responses to environmental change: comparative genomics and indigenous perspectives”. PI, Craig Moritz, Australian National University

Mentored NSF Dissertation Improvement Grants

Student		
1999	Hopi Hoekstra	Evolution and maintenance of XY females in natural populations of South American field mice (genus <i>Akodon</i>)
2003	Hollie Walsh	Population Genetics of Black-footed Albatrosses using SNPs: Implications for Regional Differentiation, Mate Choice, and Species Conservation (NSF 0309076)
2009	June Lee	Molecular Evolution of Reproductive Genes in Australian Fairy Wrens (Maluridae) (DEB 0909897)
2011	Maude Baldwin	Function and Evolution of Sweet Taste Receptors in Birds (IOS 1111487)
2013	Shane Campbell-Staton	Temperature-Dependent Biogeography and Limits of Thermal Tolerance in <i>Anolis carolinensis</i>
2015	Allison Shultz	Genomic signatures of pathogen-mediated selection in diachronic populations of the House Finch

Museum collections-related grants

1999	NSF Collections Improvement Grant (1 yr., Improvement of Genetic Resources Collection at
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- Burke Museum; DBI-9876809; \$78,760)
- 2006-2010 NSF Computerization of the Ornithology Collection, Museum of Comparative Zoology, Harvard University (DBI 0646400; 3 yrs., \$479,656)
- 2017-2018 NSF 1746177 (1 yrs., 1 yr. no cost extension): Postdoctoral Research Fellows in Biology Workshop: Research Using Biological Collections; November 7-9, 2017; Harvard University (Joe Cook, PI; \$98,172.
- 2020-2023 NSF 1946857 CSBR: Natural History: Preserving the genomes of the type specimens in the Museum of Comparative Zoology. Co-PI, with Gonzalo Giribet (PI) and Breda Zimkus. \$495,489

Grants for student diversity, mentoring, conferences and workshops

- 1996 Research Corporation, Inc. -- M. J. Research Charitable Trust Grant (2 yrs., for training Seattle-area high school teacher in molecular techniques for eventual transfer to high school setting; \$14,000)
- 1997 U. Washington Faculty Undergraduate Mentoring Award (\$3,000)
- 1996-1997 NSF Research Opportunity Award (with Peter Wimberger as co-PI (supplement to DEB 9419738; \$18,000)
- 2001 NSF UMEB Supplement: Student Diversity at SSE 2001 (\$18,000)
- 2002 -2006 Undergraduate Diversity at the Society for the Study of Evolution and the Society of Systematic Biologists (NSF, DEB-0227714; UMEB Program, 4 yrs., \$60,000)
- 2008-2012 NSF DEB-0826811 (URM - Undergraduate Research & Mentoring): Undergraduate Diversity at SSE/SBB 2008-2012 (\$67,500)
- 2009 NSF DEB 0910551 - 2009 Evolutionary and Ecological Functional Genomics Gordon Research Conference
- 2010-2015 RCN-UBE: Advancing Integration of Museums into Undergraduate Programs (AIM-UP!). DEB 0956129; PI:Joseph Cook (\$485,648)
- 2011 NSF OISE 1118408 - US-Mexico workshop on evolutionary genomics of non-model species: next-gen sequencing, data management and hypothesis testing, Irapuato, Mexico, July 19-21, 2011 (co-PI; Stacey Lance, PI)

RESEARCH PRODUCTS

BOOKS

Audubon: Early Drawings. 2008. Richard Rhodes, Scott Edwards and Leslie Morris. Harvard University Press. 288 pages. [Reviewed favorably in the *NY Times*, *Wall Street Journal*, *Science* and many other venues).

Editor (with Tariq Ezaz): 2018: E-book: Evolutionary Feedbacks Between Population Biology and Genome Architecture. *Frontiers in Genetics* (10 peer-reviewed articles).

PUBLICATIONS

[Total 229; h-index 80; 32,773 citations [[Google Scholar](#)]; * = not peer-reviewed; † = undergraduate student]

- Honeycutt, R. L., S. V. Edwards†, K. Nelson, and E. Nevo. 1987. Mitochondrial DNA variation and the phylogeny of African mole-rats (Rodentia: Bathyergidae). *Systematic Zoology* 36: 280-292.
- Kocher, T.D, W. K. Thomas, A. Meyer, S. V. Edwards, S. Pääbo, F. X. Villablanca and A. C. Wilson. 1989. Dynamics of mitochondrial DNA evolution in animals: amplification and sequencing with conserved primers. *Proceedings of the National Academy of Sciences (USA)* 86: 6196-6200.
- Edwards, S.V., and A.C. Wilson. 1990. Phylogenetically informative length polymorphism and sequence variability in mitochondrial DNA of Australian songbirds (*Pomatostomus*). *Genetics* 126: 695-711.
- Edwards, S.V., P. Arctander, and A.C. Wilson. 1991. Mitochondrial resolution of a deep branch in the genealogical tree for perching birds. *Proceedings of the Royal Society of London series B* 243:99-

- *Honeycutt, R.L., M.W. Allard, S.V. Edwards and D.A. Schlitter. 1991. Systematics and evolution of the family Bathyergidae. Pages 45-65 in P.W. Sherman, J.U.M. Jarvis and R.D. Alexander, eds. *The Biology of the Naked Mole-Rat*. Princeton University Press, Princeton, New Jersey.
- Edwards, S. V. & Naeem, S. 1993. The phylogenetic component of cooperative breeding in perching birds. *The American Naturalist* 141: 754-789.
- Edwards, S. V. 1993. Long-distance gene flow in a cooperative breeder detected in genealogies of mitochondrial DNA sequences. *Proceedings of the Royal Society of London series B* 252: 177-185.
- Edwards, S. V. 1993. Mitochondrial gene genealogy and gene flow among island and mainland populations of a sedentary songbird, the grey-crowned babbler (*Pomatostomus temporalis*). *Evolution* 47: 1118-1137.
- Bellchambers, K., E. Adams, S. Edwards. 1994. Observations of some birds of coastal and lowland Western Province, Papua New Guinea. *Muruk* 6: 28-39.
- Edwards, S. V. & Naeem, S. 1994. Homology and comparative methods in the study of avian cooperative breeding. *The American Naturalist* 143: 723-733.
- Edwards, S. V., M. Grahn and W. K. Potts. 1995. Dynamics of *Mhc* evolution in birds and crocodilians: amplification with degenerate primers. *Molecular Ecology* 4: 719-729.
- Edwards, S.V., E. K. Wakeland and W. K. Potts. 1995. Contrasting histories of avian and mammalian MHC genes revealed by class II B genes of songbirds. *Proceedings of the National Academy of Sciences*. 92: 12200-12204.
- Edwards, S. V. & M. Kot. 1995. Comparative methods at the species level: geographic variation in morphology and group size in grey-crowned babblers (*Pomatostomus temporalis*). *Evolution* 49: 1134-1146.
- Edwards, S. V., and W. K. Potts. 1996. Polymorphism of *Mhc* genes: implications for conservation genetics of vertebrates. Pp. 214-237 in *Molecular Genetic Approaches to Conservation* (T. B. Smith and R. K. Wayne, eds). Oxford University Press, Oxford.
- *Edwards, S. V. 1996. Short- and long-term evolution of *Mhc* class II B genes in birds: first glimpses. Pp. 169-178 in *Current Topics in Molecular Evolution* (M. Nei and N. Takahata, eds.). Penn State University Press, Institute of Molecular Evolutionary Genetics, Penn State University.
- Lum, P. Y., Edwards, S. V., and Wright, R. 1996. Molecular, functional and evolutionary characterization of the gene encoding HMG-CoA reductase in the fission yeast, *Schizosaccharomyces pombe*. *Yeast* 12: 1107-1124.
- Edwards, S. V., and P. Arctander. 1997. Congruence and phylogenetic re-analysis of perching bird cytochrome *b* sequences. *Molecular Phylogenetics and Evolution* 7: 266-271.
- *Edwards, S. V. 1997. Relevance of microevolutionary processes to higher level molecular systematics. Pp. 251-278 in *Avian Molecular Systematics and Evolution* (D. P. Mindell, ed.) Academic Press, New York.
- Edwards, S. V., K. Chesnut, K., Y. Satta, and E. K. Wakeland, 1997. Ancestral polymorphism of *Mhc* class II genes in mice: implications for balancing selection and the mammalian molecular clock. *Genetics* 148: 655-668.
- Edwards, S. V., Gasper, J., March, M. 1998. Genomics and polymorphism of *Agph-DAB1*, and *Mhc* class II B gene in Red-winged Blackbirds (*Agelaius phoeniceus*). *Molecular Biology and Evolution* 5: 236-250.
- Edwards, S. V., and P. Hedrick. 1998. Evolution and ecology of MHC molecules: from genomics to sexual selection. *Trends in Ecology and Evolution* 13: 305-311.
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PAPERS FROM LARGE CONSORTIA AND GENOME PROJECTS

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- Jarvis, E. D., et al. 2014. Whole-genome analyses resolve early branches in the tree of life of modern birds. *Science*. 346: 1320-1331.
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MANUSCRIPTS IN PRESS

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MANUSCRIPTS IN PREPARATION

- Lee, J. Y. and S. V. Edwards. Phylogenetic evidence of selection at reproductive genes in promiscuous songbirds.
- Cloutier, A., T. B. Sackton, P. Grayson, S. V. Edwards, and A. J. Baker. 2018. First nuclear genome assembly of an extinct moa species, the little bush moa (*Anomalopteryx didiformis*). bioRxiv 10.1101/262816.

Grayson, P., D. Adams, C. J. Tabin, S. V. Edwards Convergent regulatory evolution revealed by comparative developmental transcriptomics and epigenomics of flightless birds (Palaeognathae)

BOOK REVIEWS

- Edwards, S. V. 1998. Review of *Molecular Evolution and Adaptive Radiation* (eds. T. Givnish and K. Sytsma). *American Zoologist* 38: 986-988.
- Edwards, S. V. 2001. Immunology: how it all began (review of *Origin and Evolution of the Vertebrate Immune System*, L. DuPasquier and G. W. Litman, eds). *Trends in Immunology* 22: 59.
- Edwards, S. V. 2008. Bird speciation: selection and the origin of species (review of *Speciation in Birds* by Trevor Price). *Evolution* 62: 991-995.
- Edwards, S. V. 2011. A Bird's Eye View of Animal Evolution (review of *Animal evolution: Fossils, Genomes, and Trees*. Maximilian J. Telford and D. T. J. Littlewood. Oxford University Press, 2009. *Quarterly Review of Biology* 61: 331-333.

PUBLISHED CORRESPONDENCE

- Mayer, Gregory C., Jerry A Coyne, Jonathan B Losos, Johannes Foufopoulos, Neil Shubin, Douglas J Futuyma, Benjamin C Campbell, Scott V Edwards. 2013. Museums' Role: Increasing Knowledge. *Science* 339: 1148-1149.
- Wu, S., S. Song, L. Liu, S.V. Edwards. 2013. Reply to Gatesy and Springer: The multispecies coalescent model can effectively handle recombination and gene tree heterogeneity. *Proceedings of the National Academy of Sciences* 110: E1180-E1180.
- Liu, L. and Edwards, S.V., 2015. Comment on "Statistical binning enables an accurate coalescent-based estimation of the avian tree". *Science* 350: 171; DOI: 10.1126/science.aaa7343
- Liu, L., Zhang J., Rheindt F. E., Lei F., Qu Y., Wang Y., Zhang Y., Sullivan C., Nie W., Wang J., Yang F., Chen J., Edwards S. V., Meng J., and Wu S. 2017. Reply to Gatesy and Springer: Claims of homology errors and zombie lineages do not compromise the dating of placental diversification. *Proc Natl Acad Sci U S A* 114:E9433-E9434.

RECENT INVITED MAJOR LECTURESHIPS & PLENARY LECTURES

Annual Superspeaker, Ecology and Evolution Program, University of Montana, Bozeman (Sept. 2022)

Invited Plenary, XVI Avian Immunology Research, University of Delaware, April 2022

Keynote speaker, Inter-departmental Population Biology Seminar Series , University of Southern California, Dec. 2022.

Department of Zoology, University of Oxford. In person, November 2021.

Royal Palace, Stockholm (with King of Sweden in audience) December 2021.

Plenary lecture, Systematics, Evolution and Biogeography (June 2021)

Keynote Speaker, Annual Symposium, National Center for Biological Sciences, Bangalore, India, "Enhancers and the evolutionary genomics of flightlessness in birds". January 2020.

Marker Lecturer in Evolutionary Biology, Penn State University. Bird evolution: from dinosaurs to DNA" and "Convergent regulatory evolution and loss of flight in paleognathous birds. September 2019.

Murray Lectureship, University of Sydney, “Bird evolution: from dinosaurs to DNA” and “Convergent regulatory evolution and loss of flight in paleognathous birds. August 2019.

Opening lecture, Symposium on “The Molecular Tree of Life: From Coalescence To Comparative Genomics”, Jiangsu Normal University, Xuzhou, China, “Comparative genomics, the anomaly zone, and the phylogeny of palaeognathous birds”, May 27-31, 2018.

Plenary Lecture, 1st meeting of the Taiwan Ornithological Society; “Comparative genomics and the role of gene regulation in the origin of flightlessness”, April 4-7, 2018.

Darwin Day Speaker, Bridgewater State University, Bridgewater, MA. “Evolutionary genomics of flightlessness in birds.” Feb. 2018.

Keynote lecture, International Biogeography Society meeting, Bangalore, India, 9/17: “Multilocus phylogeography: from mtDNA to next-generation sequencing on two continents”

Keynote Lecture, 2017 Carl Woese Institute for Genomic Biology Fellows Symposium, University of Illinois, Champagne-Urbana, “Convergent regulatory evolution and the origin of flightlessness in palaeognathous birds”

2017 University of Kentucky Nietzel Distinguished Visiting Faculty Award and Keynote Lecture “Convergent regulatory evolution and the origin of flightlessness in palaeognathous birds”

2017 Storer lecture and Ecology and Evolution, University of California, Davis “Convergent regulatory evolution and the origin of flightlessness in palaeognathous birds”

2016 International Society of Avian Endocrinology Keynote Lecture “Convergent regulatory evolution and the origin of flightlessness in palaeognathous birds”

Symposium on phylogenomics sponsored by the journal *Zoologica Scripta*: “Unifying genome history and function in avian phylogenetics”, Oslo, Norway, Nov. 4, 2015

Several lectures as workshop faculty for “Avian Biology Workshop”, Shillong, Meghalaya, India, 27 September – 3 October 2015.

Two-week New Zealand Lecture Tour hosted by the Allan Wilson Centre: “Bird Evolution: From Dinosaurs to DNA”. Multiple locations in New Zealand. August 6-22, 2015.

Lecture: “Using phylogenomics to understand genome history, function and evolution in birds”, for symposium at Sun Yat Sen University, Guangzhou, China on “Evolution and Protection of Biodiversity 2015”, 15-20 July 2015.

Plenary Lecture: “From feathers to flightlessness: using comparative and population genomics to study the genetic basis of phenotypic evolution”. Reunión Argentina de Biología Evolutiva, Cordoba, Argentina. July 6 2015.

Invited symposium talk: “From seabirds to songbirds: the phylogeography of avian resilience and invasion in Hawaii and beyond” Association of Tropical Biology and Conservation, Honolulu, HI, July 2015.

Invited faculty for 4-day workshop on species trees and phylogenetic estimation, the Scandinavian Research School in Systematics and the University of Gothenburg, Sweden. Nov. 2014.

“Building genealogies of species using the multispecies coalescent model”. Conference on Biomathematics and Ecology: Research and Education (BEER). Oct. 2014, Harvey Mudd College, CA.

“Population genomics and transcriptomics of adaptation of House Finches (*Haemorhous mexicanus*) to a rapidly evolving bacterial pathogen”. Invited talk, CNRS Symposium on Infectious Diseases as Drivers of Evolution: The Challenges Ahead”, Roscoff, France, Sept. 6-10, 2014.

“Conserved non-exonic elements as markers of phylogenomic history and regulatory innovation in birds” Invited symposium talk at 26th International Ornithological Congress, Tokyo, Japan, Aug. 18-25 2014.

“Opportunities and Challenges for Funding and Sustaining Natural History Collections”. iDigBio Symposium on Natural Collections in the 21st Century, University of Florida (April 2014)

“Rumors, myths and subtleties in the analysis of species trees”. Invited keynote address for iEvoBio symposium, Raleigh, NC, June 23, 2014.

“Genomes, Feathers and Flight: Biodiversity and Evolution through the Lens of Genomics”. Lecture for Symposium on EO Wilson Biodiversity Symposium, University of Alabama, April 2014.

“Genomes, feathers and flight: comparative genomics of birds and other reptiles”. February 10, 2014. Darwin Day Speaker, University of Virginia.

“Phylogenetics and the Coalescent Process”. Seminar at Workshop on Evolutionary Genomics, Universidad Austral de Chile, Valdivia, Chile (January 2014).

“Phylogenetics and Comparative Genomics”. Seminar at Workshop on Evolutionary Genomics, Fudan University, Shanghai, China (July 2013).

“Genomes, feathers and flight: comparative genomics of birds and other reptiles”. University of Mexico Research Day Speaker. April 2013

“Genomes, feathers and flight: comparative genomics of birds and other reptiles”. 2013 Roger Carpenter Lecturer in Comparative Biology at San Diego State University (May 2013)

“From reptiles to dinosaurs to birds: a view from the genome”. Virginia Commonwealth University Darwin Day Speaker, March 2013

“Genomic, geographic and temporal tracking of a rapidly evolving host-pathogen interaction”, 10th Symposium on Ecological Genomics, Kansas State University, Kansas City, MO (October 2012),

Plenary lecture: “Resolving the Tree of Life through Phylogenomics and the Multispecies Coalescent Model”, 2nd symposium on Evolutionary Genomics and Bioinformatics (symposium in honor of the 7th birthday of Wen-Hsiung Li), Kaohsiung, Taiwan (October 2012)

Plenary lecture: “Molecular Ecology in the 21st Century: Genomic Foundations of an Integrative Science”. German Zoological Society annual meeting, Konstanz, Germany (September 2012)

Public lecture: “Molecular Ecology in the 21st Century: Genomic Foundations of an Integrative Science”, University of Canberra, Canberra, Australia (May 2012)

3rd Biological Evolution Workshop, Porto Allegre, Brazil. “Major Events in the Evolution of the Avian Genome.” (November 2011)

2nd Latin American School for Evolution, Valdivia, Chile. "Principles of Genome Evolution as revealed by Comparative Genomics of Birds and Reptiles" (November 2011)

Sewall Wright Annual Graduate Student Speaker, University of Chicago, Department of Ecology and Evolution. "The phylogeography-phylogenetics continuum". (May 2011)

Symposium for the Opening Ceremony of the Paleontological Museum of Liaoning (PMOL), Shenyang Normal University, Shenyang, China. "Genomics and paleontology: opportunities for integration". (May 2011)

George C. Williams Memorial Lecture Graduate Student Invitee, Department of Ecology and Evolution, State University of New York, Stony Brook "Genomics of Host-Pathogen Evolution: A Tale of Birds and Bacteria" and "Population genetics and phylogenetics: where is the common ground?" (May 2011)

"From Dinosaurs to Birds", The HistoryMakers, a celebration of African-Americans in Science, Detroit Science Museum, February 2011 <http://www.idvl.org/thehistorymakers/>

"Symposium lecture: "Genomics of host-parasite co-evolution in House Finches and *Mycoplasma*" Darwin Now Symposium, Alexandria, Egypt (Nov. 2009)

Invited lecture, "Beyond Darwin's Dreams: Genomics of Host Parasite Co-Evolution", Darwin Symposium, Smith College, Massachusetts (Oct. 2009).

Invited lecture, "Species Trees: The Latest Twist on Darwin's Tree of Life", Darwin Symposium, Punta del Este, Uruguay (Sept. 2009).

Invited lecture, "Genomics of Host Parasite Co-Evolution", Darwin's Evolution Symposium, Stockholm Museum/University of Stockholm, May 2009.

Harvard Museum of Natural History: "The Ecology and Evolution of Nests and Eggs" (5/07), Special Lecture opening "Nests and Eggs" exhibit.

Plenary Lecture, European Society of Evolutionary Biology, (8/07) "Navigating the forest of gene trees, from phylogeography to phylogenomics".

Plenary Lecture, XXIV International Ornithological Congress, Hamburg, Germany: "Genomics and Ornithology" (8/06)

Songbird Genome Mapping Workshop, Sigtuna, Sweden: "Genomic parameters of relevance to QTL mapping in songbirds" (9/06)

Class of 1960 Annual lecture, Williams College, Williamstown, MA "Multilocus approaches to phylogeography and disease ecology" (11/06)

James P. Holland Memorial Lecture, Indiana University, Bloomington, IN: "From Archaeopteryx to Modern Birds: A DNA Trail" (2003)

PRESS WRITE-UPS/TV APPEARANCES

"Singing a Genetic Tune" by Eric Sorensen, Seattle Times. July 2000.

"NSF's Ark Draws Alligators, Algae and Wasps", by Jennifer Couzins. Science 297: 1638-39 (6 Sept. 2002).

“Avian Expert Joins Biology Department” by Risheng Xu, Harvard Crimson, Feb. 4, 2004.

“Collection takes flight: Edwards studies birds with genetic databases, not binoculars” by Steve Bradt, Harvard University Gazette, May 27, 2004. (<http://www.hno.harvard.edu/gazette/2004/05.27/03-edwards.html>)

“Unlocking the DNA Secrets of Birds” by Carolyn Johnson, Boston Globe, Feb. 15, 2005.

“Exhibit explores ivory-billed mystery: HMNH highlights Harvard collection, current debate” by Alvin Powell, Harvard Gazette, June 1, 2006. (<http://www.news.harvard.edu/gazette/2006/06.01/11-ivorybill.html>)

Numerous press articles and digital media covering our 2007 paper in *Nature*, including Zimmer, C. “Evolution - Jurassic genome” *Science* 315: 1358-1359.

Textbook appearance, “Interview” and “Inquiry Box” in section on “Mechanisms of Evolution”, Biology, (8th ed.) N. A. Campbell and J. B. Reece (and others). Pearson-Benjamin Cummings, Boston (2008).

Generalist speaker, “EVOLVE”, The History Channel (13 Episodes), aired Summer 2009.

Principal, “Beast Legends”, 6-part miniseries on the zoological origins of mythological beasts (Yap Films, aired Canadian History Channel and US SyFy Channel, Fall 2010)

“Old specimens, fresh answers” May 12, 2011, by Alvin Powell. Harvard University Gazette. <http://news.harvard.edu/gazette/story/2011/05/old-specimens-fresh-answers/>

Numerous press articles and digital media covering our 2011 paper (Vo et al.) in *PNAS* on mercury levels in Hawaiian albatross, including Mercury rising. *Nature News*, April 18, 2011. By Nadia Drake. http://www.nature.com/news/2011/110418/full/news.2011.243.html?s=news_rss; numerous additional web articles on Vo et al. 2011 from BBC News, e! Science News, and other venues.

“Melding the Web and the tactile: Harvard, other schools create a virtual classroom that uses museum collections.” Harvard Gazette, April 29, 2013. By Alvin Powell.

On camera-narrator and consultant, “Mysteries of the Museum” episode on Meinertzhagen and the case of the Fraudulent Forest Owlet”. Filmed Nov. 2014 for Travel Channel, upcoming (2015).

“Cold snap makes lizards evolve in just a few months” *Science* magazine News (Aug. 3, 2017). <http://www.sciencemag.org/news/2017/08/cold-snap-makes-lizards-evolve-just-few-months>

“Cold snap drives lizard change”. *Nature Research Highlights*. <https://www.nature.com/articles/d41586-017-02264-4>

“Study explains why some of our famous flightless birds can't fly”. Phys.org, <https://phys.org/news/2019-04-famous-flightless-birds.html>

“How emus and ostriches lost the ability to fly” ScienceNews. 4 April 2019. <https://www.sciencenews.org/article/dna-emus-ostriches-birds-lost-ability-fly?tgt=nr>

“Kiwi and moa may have flown to New Zealand – study” Newshub.

<https://www.newshub.co.nz/home/new-zealand/2019/04/kiwi-and-moa-may-have-flown-to-new-zealand-study.html>

“New research uncovers why moas and kiwis lost ability to fly” Stuff. 5 April 2019.

<https://www.stuff.co.nz/science/111806818/new-research-uncovers-why-moas-and-kiwis-lost-ability-to-fly>

Numerous articles, webinars and podcasts documenting my ~3800-mile 2020 cross-US bicycle trip for recreation and social justice (*Audubon*, *Roadtripper*, *Boston Globe*, Smithsonian Online Events, Harvard Museum of Natural History, Harvard Gazette, Iowa National Public Radio, and others)

CURRENT LAB PERSONNEL

Undergraduates: Chidambaram Thillairajah '22. *Graduate students*: Alexandria DiGiacomo (2018 – pres.); Sophie MacRae Orzechowski, (2019 – pres.); Kelsie Lopez (2020 – pres.). *Postdoctoral Fellows/Research Scientists*: Daren Card (NSF Postdoc), Flavia Termignoni, Gunnar Kramer (NSF Postdoc), Bohao Fang, Robert Boria (NSF Postdoc), Jonathan Schmitt. *Visiting Scholars*: Rus Hoelzel, University of Durham, Xianfa Xie, Virginia State University

PAST LAB PERSONNEL

Undergraduates: Natalia Fuentes, Desiree Pante, Madison Hwang-Keng, Chidambaram "Cid" Thillairajah, Julia Yu, Juan Gonzalez, Eamon Corbett, Lily Lu, Max Gersh, Jack Lawlor, Amanda Lu, Zach Herring, Liz Schold, Bianca Lec, Grant Miura, Eric Waltari, Dan Garrigan, Matt Saunders, Nancy Chen, Elaine Vo, David Lum (and several others).

Graduate Students: Chris Hess, Hollie Walsh, Bethanne Zelano, Corey Welch, Hopi Hoekstra, John Nusser (MSc), Monica C. Silva, Gary Voelker (co-advised), Ricardo Godinez, June Yong Lee, Shaoyuan Wu, Shane Campbell-Staton (co-advised w/Jonathan Losos), Maude Baldwin, Jonathan Schmitt, Phil Grayson, Allison Schultz, Sophie Macrae Orzechowski, Kelsie Lopez, Alexandria Digiacomo.

Postdoctoral Fellows/Research Associates: Sharon Birks, Robb Brumfield, Zhenshan Wang, Bryan Jennings, Kara O'Keefe (co-advised with Paul Turner, Yale University), Charles Chapus, Patricia Brito, Christopher Balakrishnan, Anna Dubiec, Camille Bonneaud, Liang Liu, Chris Organ, Susan Cameron, Miguel Alcaide, Andrew Shedlock, Daniel Janes, Christian Anderson, Niclas Backström, Mark Liu, Clemens Küpper, Frank Rheindt, Matt Fujita, Christie Riehl (Harvard Junior Fellow); Cassie Stoddard (Harvard Junior Fellow), Tim Sackton, Betul Kacar (independent research program on experimental evolution); João Tonini, Simon Sin, Alison Cloutier, Kathrin Naepflin, Katie Stryjewski, Sangeet Lamichhaney, Gustavo Bravo, Daren Card, Gunnar Kramer, Rob Boria, Bohao Fang, Flavia Termignoni-Garcia.

Visiting Students and Sabbatical Scholars: Mary O'Connell (Dublin City University, Ireland), Tobias Lenz (MPI Evolutionary Biology, Germany), Irene Salicini (Spain), Bei An (China), Patrick Albers (Germany), Moos Blom (Germany), Longying Wen (China), Gisele Dantas (Brazil), Elisa Dierickx (Graduate student, University of Cambridge), Pengcheng Wang, John Burley (MEME); Aikaterini Maria Bougiouri (MEME), Michael Reed (Professor of Ecology, Tufts University), Juan Opazo (Professor, Universidad Austral de Chile); Carlos Schrago (Professor Federal University of Rio de Janeiro, Brazil), Fernanda Werneck (Professor at Instituto Nacional de Pesquisas da Amazônia (INPA), Brazil); Alexandre Antonelli, (U. Gothenburg, Sweden); Gang Liu, Institute of Forestry, Beijing, China; Lu Dong, Beijing National University, China; Ethan (Chuang) Zhou (Sichuan University, China), Rus Hoelzel (U. Durham, UK); Xianfa Xie (Virginia State U.).

Technicians: Joe Gasper, Nancy Rotzel, Ingrid Soltero, Flavia Chen, Liz Schold, Nicole Mejia.