

# Allison J. Shultz

## *Curriculum Vitae*

Natural History Museum of Los Angeles County  
Ornithology Department  
900 Exposition Blvd  
Los Angeles, CA 90007

(213) 763-3378  
ashultz@nhm.org  
www.allisonshultz.com  
twitter: @ajshultz622

### PROFESSIONAL APPOINTMENTS

- 2018 - Present            **Natural History Museum of Los Angeles County**  
Assistant Curator of Ornithology
- 2019 – Present            **University of Southern California**  
Scholar-in-Residence
- 2020- Present            **San Diego State University**  
Adjunct Assistant Professor
- 2017 - 2018                **Harvard University**  
Bioinformatics Scientist, Informatics Group
- 2017                        **Harvard University**  
Postdoctoral Fellow, Mentor: Scott Edwards
- 2011 – 2017                **Harvard University**  
PhD Candidate, Mentor: Scott Edwards
- 2008 – 2011                **San Diego State University**  
MS Candidate, Mentor: Kevin Burns
- 2007-2008                **Museum of Vertebrate Zoology**  
Centennial Coordinator

### EDUCATION

- PhD                        **Harvard University**  
Organismic and Evolutionary Biology, May 2017  
Advisor: Dr. Scott Edwards  
**Dissertation:** Comparative and population genomics of host-pathogen co-evolution in birds
- MSc                        **San Diego State University**  
Biology, emphasis in Evolutionary Biology, May 2011  
Advisor: Dr. Kevin J. Burns  
**Thesis:** Using an avian visual model to assess the evolution of sexual dichromatism in tanagers
- BA                         **University of California, Berkeley**  
Integrative Biology, May 2007, Honors.  
Honors Thesis Advisor: Dr. Rauri C.K. Bowie  
**Honors Thesis:** A Ninety-three year study of the effects of moderate urbanization on an avian community

**AWARDS, HONORS AND FELLOWSHIPS**

- 2020 North American Ornithological Conference Exceptional Volunteer Service Award for “exemplary and meritorious service in developing and administering the technical meeting architecture essential for the success of the first virtual conference”.
- 2019 American Ornithological Society Elective Member
- 2016 Harvard Graduate School in the Arts and Sciences Merit Fellowship
- 2016 Certificate of Distinction in Teaching for Teaching Fellows at Harvard University
- 2013 American Ornithologists’ Union Student Presentation Award
- 2013 American Ornithologists’ Union Travel Award
- 2008 National Science Foundation Graduate Research Fellowship
- 2008 San Diego State University Tuition Scholarship
- 2007 Joseph LeConte Award  
Awarded to one Integrative Biology graduate for outstanding work in Natural History
- 2003 – 2007 Alumni Scholarship Leadership Award
- 2004 Class of 1951 Briggs Alumni Scholar

**GRANTS AND FUNDING HISTORY**

- 2015 Sigma Delta Epsilon/Graduate Women in Science Fellowship (\$7,683)
- 2015 NSF Dissertation Improvement Grant (\$21,940)
- 2014 Putnam Expedition Grant (\$3,920)
- 2013 Frank M. Chapman Memorial Fund (\$2000)
- 2013 American Ornithologists’ Union Research Grant (\$2480)
- 2013 Rosemary Grant Graduate Student Research Award (\$2250)
- 2009 Los Angeles Audubon Society Schreiber Award (\$1500)
- 2009 American Ornithologists’ Union Research Grant (\$2125)

**PROFESSIONAL SERVICE**

- 2020 - present **Co-chair**, Content group, IDEA (Inclusion, Diversity, Equity, Access) working group, NHMLAC
- 2020 - present **Founder and Organizer**, Underrepresented Genders in Museum Ornithology
- 2020 - present **Member**, American Ornithological Society Scientific Program Subcommittee
- 2020 - present **Member**, American Ornithological Society Accessibility Subcommittee
- 2019 - present **Member**, American Ornithology Society Collections Committee
- 2018 - present **Member**, American Ornithology Society Meeting Coordination Committee
- 2018 - present **Editorial Review Board**, Journal of Biogeography
- 2014 - 2018 **Chair**, Graduate Women in Science Technology Committee
- 2012 – 2017 **Mentor**, Harvard University Women in Science, Technology, Engineering and Mathematics
- 2010 **Chair, Evolutionary Biology and Ecology Seminar Series Student Committee**, San Diego State University
- 2010-2011 **Assistant Event Captain**, Science Olympiad, Ornithology test
- 2009 **Mentor**, Expanding Your Horizons in Science and Mathematics Conference
- 2007 - 2008 **Senior Manager**, University of California Marching Band
- 2007-2008 **Public Programs Committee**, Berkeley Natural History Museums, University of California
- 2006-2007 **Member**, Cal Performances Board of Trustees

**PUBLICATIONS**

- Submitted Beltran, D.F., **A.J. Shultz**, Parra, J. Colour evolution is associated with speciation in hummingbirds. In Revision, Evolution.
- Richmond, J.Q., Kingston, J., Ewing, B.A.I., Bear, W., Kus, B.E., Lee, C., Swift, C., Preston, K.L., **Shultz, A.J.**, Russel K., Unitt, P., Hollingsworth, B.D., Michael Wall, M., Tremor, S., Palenscar, K.,

and Fisher, R.N. Prioritizing the risk and management of introduced species in a landscape with high indigenous biodiversity. Submitted, Biological Invasions

Cooper, D.S., **Shultz, A.J.**, Sekerciglou, C., Blumstein, D., Is there a global urban raptor: Using community science data to identify traits associated with urban occurrence in Accipiteridae. Submitted, Global Change Biology

- 2021 McCoy, D. E., **Shultz, A. J.**, Vidoudez, C., van der Heide, E., Dall, J. E., Trauger, S. A., & Haig, D. (2021). Microstructures amplify carotenoid plumage signals in tanagers. *Scientific Reports*, 11(1), 1–20. <https://doi.org/10.1038/s41598-021-88106-w>
- Bell, K. C., Adams, B. J., Brown, B. V., Ludt, W. B., Pauly, G. B., **Shultz, A. J.**, & Vendetti, J. E. 2021. Museums Are Critical Infrastructure for Studying Urban Biodiversity. *Bioscience*: biab026. <https://doi.org/10.1093/biosci/biab038>
- A.J. Shultz**, B.J. Adams, K.C. Bell, W.B. Ludt, G.B. Pauly, J.E. Vendetti. 2021. Natural history collections are critical and underutilized resources for contemporary and future studies of urban evolution. *Evolutionary Applications*. <https://doi.org/10.1111/eva.13045>
- 2020 Cooper, D. S., **Shultz, A. J.**, & Blumstein, D. T. (2020). Temporally Separated Data Sets Reveal Similar Traits of Birds Persisting in a United States Megacity. *Frontiers in Ecology and Evolution*, 8, 251. <https://doi.org/10.3389/fevo.2020.00251>
- Price-Waldman, R., **A. J. Shultz**, Burns, K.J. 2020. Speciation rates are correlated with changes in plumage color complexity in the largest family of songbirds. *Evolution* 74(6): 1155-1169.
- 2019 Näpflin, K., L. Becks, S. Bensch, V. A. Ellis, N. Hafer-Hahmann, K. C. Harding, S. K. Lindén, E. A. O'Connor, M. T. Olsen, J. Roved, T. B. Sackton, **A. J. Shultz**, V. Venkatakrisnan, E. Videvall, H. Westerdahl, J. C. Winternitz, and S. V. Edwards. 2019. Genomics of hosts-pathogen interactions: challenges and opportunities across ecological and spatiotemporal scales. *PeerJ* 7:e8013.
- Alfaro, M.E., Karan, E., Schwartz, S.T., **Shultz, A.J.**, 2019. The evolution of color pattern in butterflyfishes (Chaetodontidae). *Integrative and Comparative Biology* 59(3): 604-615.
- Shultz, A.J.** and Sackton, T.B. 2019. Immune genes are hotspots of shared positive selection across birds and mammals. *eLife* 8:e41815
- 2018 Drury, J.P., Tobias, J.A., Burns, K.J., Mason, N.A., **Shultz, A.J.**, Morlon, H. 2018. Contrasting impacts of competition on ecological and social trait evolution in songbirds. *PLoS Biology* 16 (1), e2003563
- 2017 Termigioni-Garcia, F., Jaramillo-Correa, J.P., Chable-Santos, J., Liu, M., **Shultz, A.J.**, Edwards, S.V., Escalante Pliego, P. 2017. Genomic footprints of adaptation in a cooperatively breeding tropical bird across a vegetation gradient. *Molecular Ecology* 26:4483-4496
- Burns, K.J.\*, McGraw, K.J.\*, **Shultz, A.J.\***, Stoddard, M.C.\*, and Thomas, D.B.\*. 2017. Advanced Methods for Studying Pigments and Coloration using Avian Specimens. *in* M. S. Webster, ed. *Studies in Avian Biology: The Extended Specimen: Emerging Frontiers in Collections-based Ornithological Research*. CRC Press. \*These authors contributed equally to this paper
- Shultz, A.J.** and Burns, K.J. 2017. The role of sexual and natural selection in shaping patterns of sexual dichromatism in the largest family of songbirds (Aves: Thraupidae). *Evolution* 71:1061-1074.
- Tigano, A., **Shultz, A.J.**, Edwards, S.V., Robertson, G.J., Friesen, V.L. 2017. Outlier analyses to test

- for local adaptation to breeding grounds in a migratory arctic seabird. *Ecology and Evolution*.  
Doi:10.1002/ece3.2819
- 2016 **Shultz, A.J.**, Baker, A.J., Hill, G.E., Nolan, P.M. and Edwards, S.V. 2016. SNPs across time and space: population genomic signatures of founder events and epizootics in the House Finch (*Haemorhous mexicanus*). *Ecology and Evolution*. doi:10.1002/ece3.2444
- 2015 Edwards, S.V., **Shultz, A.J.**, Campbell-Staton, S.C. 2015. Next-generation sequencing and the expanding domain of phylogeography. *Folia Zoologica* 3: 187-206
- Dierickx\*, E.G. **Shultz\*, A.J.**, Sato, F. Hiraoka, T. Edwards, S.V. 2015. Morphological and genomic comparisons of Hawaiian and Japanese black-footed albatrosses *Phoebastria nigripes* using double digest RADseq: implications for conservation. *Evolutionary Applications* 8: 662-678.  
\*These authors contributed equally to this paper
- 2014 Mason, N. A., **Shultz, A. J.**, and K. J. Burns. 2014. Elaborate visual and acoustic signals evolve independently in a large, phenotypically diverse radiation of songbirds. *Proceedings of the Royal Society B, Biological Sciences* 281: (1788) 20140967
- K.J. Burns, **A.J. Shultz**, P.O. Title, N.A. Mason, F.K. Barker, J. Klicka, S.M. Lanyon, I.J. Lovette. 2014. Phylogenetics and diversification of tanagers (Passeriformes:Thraupidae), the largest radiation of Neotropical songbirds. *Molecular Phylogenetics and Evolution* 75: 41-77
- 2013 **Shultz, A.J.** and Burns, K.J., 2013. Plumage evolution in relation to light environment in a novel clade of Neotropical tanagers. *Molecular Phylogenetics and Evolution* 66: 112-125
- 2012 Burns, K.J., and **A.J. Shultz**. 2012. Widespread cryptic dichromatism and ultraviolet reflectance in the largest radiation of Neotropical songbirds: implications of accounting for avian vision in the study of plumage evolution. *The Auk* 129(2): 211-221
- H.K. Snyder, R. Maia, L. D'Alba, **A.J. Shultz**, K.M.C. Rowe, K.C. Rowe, M.D. Shawkey. 2012. Iridescent colour production in hairs of blind golden moles (Chrysochloridae). *Biology Letters* 8(3) 393-396
- Shultz, A.J.**, M.W. Tingley, and R.C.K. Bowie. 2012. A century of avian community turnover in an urban green space in Northern California. *The Condor* 114(2): 258-267

## INVITED PRESENTATIONS AND PUBLIC EVENTS

- 2020 Princeton University Ecology and Evolutionary Biology Department Seminar (Graduate Student Invited Speaker), Princeton, New Jersey
- 2020 Cornell University Ecology and Evolutionary Biology Department Seminar, Ithaca, New York
- 2020 California Academy of Sciences Genomics Social Hour, San Francisco, California
- 2020 Los Angeles Audubon Society Seminar, Los Angeles, California
- 2020 California State University Dominguez Hills Biology Department Seminar, Los Angeles, California
- 2020 California State University Los Angeles Biology Department Seminar, Los Angeles, California
- 2019 California State University San Bernardino Biology Department Colloquium, San Bernardino, California.
- 2019 Occidental College Biology Department Seminar Series. Pasadena, California.
- 2019 California State University Northridge Biology Department Colloquium, Northridge, California.
- 2019 Cal Poly Pomona Biology Department Seminar Series. Pomona, California.
- 2019 University of California, Riverside, Ecological, Evolutionary and Organismal Biology Seminar Series, Riverside, California.

- 2019 University of Southern California, Molecular and Computational Biology Seminar Series, Los Angeles, California.
- 2015 Nuttall Ornithology Club Meeting, Cambridge, Massachusetts.
- 2015 Menotomy Bird Club, Cambridge, Massachusetts.
- 2015 Stonehill College Biology Seminar Series, Easton, Massachusetts.
- 2014 Museum of Vertebrate Zoology Lunch Seminar, Berkeley, California.
- 2014 Lund University. Minisymposium in genomics and adaptation, Lund, Sweden.
- 2014 Queens University Biology Graduate Research Day, Kingston, Ontario, Canada.
- 2010 San Diego Field Ornithologists, San Diego, California
- 2008 MVZ Centennial History Symposium, Berkeley, California.
- 2007 Museum of Vertebrate Zoology Lunch Seminar, Berkeley, California.

## CONFERENCE PRESENTATIONS

- 2020 **Shultz, A.J.**, Dall, J.E., McCoy, D.E., Burns, K.J. The evolution of plumage coloration and its underlying mechanisms in male and female tanagers. Invited talk – Studies of avian radiations in the 21<sup>st</sup> century Symposium. North American Ornithological Conference, Virtual.
- 2020 **Shultz, A.J.**, Adams, B.J., Bell, K.C., Ludt, W.B., Pauly, G.B., Vendetti, J.E. Natural history collections are critical and underutilized resources for contemporary and future studies of urban evolution. Invited talk – Leveraging museum collections to track avian population responses to anthropogenic change Symposium. North American Ornithological Conference, Virtual.
- 2020 Price-Waldman, R.M., Demery, A.J., Mason, N.A., **Shultz, A.J.**, Title, P.O., Burns, K.J. The relative importance of natural selection and sexual selection in speciation in the tanagers. Invited talk – Contemporary insights into evolutionary processes using large-scale comparative analyses of avian behavior Symposium. North American Ornithological Conference, Virtual.
- 2019 **Shultz, A.J.**, Pathogen-mediated genotypes to colorful phenotypes: integrating research across organizational levels to study biodiversity. Early Professional Symposium. American Ornithology Society, Anchorage, Alaska
- 2019 **Shultz, A.J.**, The Ornithology Collection of the Natural History Museum of Los Angeles County (LACM). American Ornithology Society, Anchorage, Alaska (poster)
- 2019 **Shultz, A.J.**, Arnold, B.A., Wuitchik, S., Sackton, T.B., The long and the short of it: linking genome-wide signatures of selection across evolutionary timescales in birds. American Ornithology Society, Anchorage, Alaska
- 2019 Price-Waldman, R.M., Demery, A.J.C., Mason, N.M, **Shultz, A.J.**, Burns, K.J., The relative roles of natural selection and sexual selection in speciation in the tanagers. American Ornithology Society, Anchorage, Alaska
- 2019 Demery, A.J.C., Edwards, S.V., **Shultz, A.J.**, Population Genomics of Hawaiian House Finches (*Haemorhous mexicanus*): investigating genetic variation of an introduced population. American Ornithology Society, Anchorage, Alaska
- 2018 **Shultz, A.J.**, Sackton, T.B. Immune genes are hotspots of convergent positive selection in birds. Population, Evolutionary and Quantitative Genetics, Madison, Wisconsin (poster)
- 2017 **Shultz, A.J.**, Zhang, Q., Backstrom, N., Baker, A.J., Hill, G., Nolan, P.M., Edwards, S.V. Demographic consequences of a novel pathogen in native and introduced populations of a songbird. Contagion Symposium, Radcliffe Institute, Cambridge, Massachusetts (poster)

- 2017 **Shultz, A.J.**, Yu, J., Sackton, T.B. Genomic signatures of pathogen-mediated selection across the bird tree of life. Evolution Conference, Portland, Oregon (poster)
- 2017 **Shultz, A.J.**, Yu, J., Sackton, T.B. Genomic signatures of pathogen-mediated selection across the bird tree of life. Host-pathogen co-evolution in the genomics area GoCAS workshop, Gothenburg, Sweden
- 2016 **Shultz, A.J.** Rapid evolution in response to a novel pathogen in the House Finch. Boston Evolutionary Genomics Supergroup Annual Retreat. Cambridge, MA
- 2016 **Shultz, A.J.** Yu, J., Sackton, T. Evolution of the innate immune system across the bird tree of life. North American Ornithological Congress, Washington D.C.
- 2014 **Shultz, A.J.**, Mason, N.A., Burns, K.J. The evolution of sexual dichromatism in tanagers: a mosaic of natural and sexual selection. Brazilian Ornithological Meeting of 2014, Rio de Janeiro, Brazil (\*Invited speaker)
- 2015 **Shultz, A.J.**, Backstrom, N., Baker, A.J., Nolan, P.M., Hill, G., Edwards, S.V. Phylogeography and genomic signatures of pathogen-mediated selection using genome-wide diachronic comparisons in the House Finch (*Haemorhous mexicanus*). Joint meeting of the American Ornithologists' Union and Cooper Ornithological Society, Chicago, Illinois
- 2013 **Shultz, A.J.**, Backstrom, N., Baker, A.J., Nolan, P.M., Hill, G., Edwards, S.V. 2013. Signatures of pathogen-mediated selection using genome-wide diachronic comparisons in the House Finch (*Haemorhous mexicanus*). 2015. Ecological and Evolutionary Genomics, Gordon Research Conference, Biddeford, Maine (poster)
- 2013 **Shultz, A.J.**, Backstrom, N., Baker, A.J., Nolan, P.M., Hill, G., Edwards, S.V. 2013. Signatures of pathogen-mediated selection using genome-wide diachronic comparisons in the House Finch (*Haemorhous mexicanus*). 2014. "Infectious diseases as drivers of evolution: the challenges ahead", Conferences Jacques-Monod, Roscoff, France (poster)
- 2013 **Shultz, A.J.**, Backstrom, N., Baker, A.J., Nolan, P.M., Hill, G., Edwards, S.V. Phylogeography and genomic signatures of pathogen-mediated selection using genome-wide diachronic comparisons in the House Finch (*Haemorhous mexicanus*). Society for the Study of Evolution, Snowbird, Utah
- 2011 **Shultz, A.J.** and K.J. Burns. 2011. Male and female plumage evolution in the tanagers: a mosaic of natural and sexual selection. Society for the Study of Evolution, Norman, Oklahoma
- 2011 Mason, N.A., **A.J. Shultz** and K.J. Burns. 2011. Diversification rates and phenotypic evolution in the Neotropical seed-eaters (Genus *Sporophila*). Society for the Study of Evolution, Norman, Oklahoma
- 2010 **Shultz, A.J.** and K.J. Burns. 2010. Evolutionary patterns of male and female plumage in the tanagers. Society for the Study of Evolution, Portland, Oregon
- 2010 Mason, N.A., **A.J. Shultz** and K.J. Burns. 2010. Elucidating patterns of song evolution in a clade of lowland tanagers: The role of phylogenetic signal and plumage. Society for the Study of Evolution, Portland, Oregon
- 2010 **Shultz, A.J.** and K.J. Burns 2010. Different patterns of plumage evolution between sexes in a clade of lowland tanagers. American Ornithologists' Union, San Diego, California
- 2009 **Shultz, A.J.** and K.J. Burns. 2009. Sexual dichromatism in tanagers and cardinals: Evolution from an avian perspective. American Ornithologists' Union, Philadelphia, Pennsylvania

- 2007 **Shultz, A.J.**, and R.C.K. Bowie. 2007. A ninety-three year study of the effects of moderate urbanization on an avian community. American Ornithologists' Union, Laramie, Wyoming

## TEACHING EXPERIENCE

### Workshop Instructor (Developed and taught course)

- 2019 **Bioinformatics Nanocourse:** Introduction to R, Intermediate R, Data Visualization in R, *Harvard University*
- 2018 **Bioinformatics Nanocourse:** Introduction to R, Intermediate R, Data Visualization in R, Population Genetics in R, and Phylogenetics in R sessions, *Harvard University*
- 2017 **Informatics Workshop Series:** Introduction to R, Intermediate R, and Data Visualization in R workshop, *Harvard University*
- 2017 **3-day Workshop on Bioinformatics** in Iguazu, Argentina, (Co-instructor with Tim Sackton, Gustavo Bravo and Scott Edwards), *Society of Field Ornithologists*
- 2017 **Professional Development Series**, *Harvard University Department of Organismic and Evolutionary Biology* (Co-instructor with Glenna Clifton)
- 2010 **Comparative Analyses and Basics in R Workshop**, Evolutionary Biology graduate students and faculty, *San Diego State University*
- 2007 **IB 98/198: Insights into Vertebrate Evolutionary Research -- Historic and Present:** An Investigative Classroom Endeavor, *University of California, Berkeley*

### Teaching Fellow

- Spring 2016 OEB 190, **Biology and Diversity of Birds**, *Harvard University*
- Spring 2014 LS1b, Genetics, **Genomics and Evolution**, *Harvard University*
- Fall 2012 OEB 10, **Diversity of Life**, *Harvard University*
- Spring 2009 BIOL 212, **Instructor for Human Anatomy Lab**, *San Diego State University*
- Fall 2008 BIOL 212, **Instructor for Human Anatomy Lab**, *San Diego State University*
- Spring 2010 **Field Teaching Assistant for Ornithology**, *San Diego State University*
- Spring 2009 **Field Teaching Assistant for Ornithology**, *San Diego State University*

### Guest Lecturer

- Fall 2020 Evolution, *University of Mississippi*
- Spring 2020 Ornithology, *San Diego State University*
- Spring 2020 Avian Field Biology, *Loyola Marymount University*
- Spring 2019 Dinosaur Phylogenetics and Systematics, *University of Southern California*
- Spring 2018 OEB 190, Biology and Diversity of Birds, *Harvard University*
- Fall 2017 OEB 275r, Phylogeography and phylogenetics in the era of genomics, *Harvard University*
- Fall 2016 Introduction to R seminar series: phylogenetic comparative methods, *Harvard University*
- Spring 2016 OEB 190, Biology and Diversity of Birds, *Harvard University*
- Spring 2013 OEB 275rb, Evolutionary Genomics and the Museum, *Harvard University*
- Fall 2012 OEB 190, Biology and Diversity of Birds, *Harvard University*
- Fall 2010 BIOL 524, Ornithology (developed lab on plumage coloration), *San Diego State University*
- Fall 2010 Graduate Seminar: Comparative Methods of Trait Evolution, *San Diego State University*

### Public Outreach Lectures and Programs

- 2020 Panelist for Vote for Climate, a panel of youth activists in Los Angeles
- 2020 Plumology – Ologies podcast hosted by Alie Ward
- 2020 Panelist for XPRIZE Tropical Thursdays: How do museum collections help us travel through time?

- 2020 Skype a Scientist (3 events)  
 2019 What's so amazing about birds: The remarkable world of our flying friends, One Day University  
 2019 Guest on NPR's Science Friday  
 2019 STEM Superstar for Project Science  
 2019 Panelist, Graduate Women in Scientist panel discussion on academic and academic-adjacent careers  
 2016 Investigating the Science of Avian Coloration through Observational Drawing, Co-instructor with Erica Beade, Harvard Museum of Natural History  
 2015 Adult Class, Biodiversity in the Avian World, Harvard Museum of Natural History  
 2015 I Heart Science museum public museum festival, Harvard Museum of Natural History  
 2015 Museum Volunteer Orientation, Harvard Museum of Natural History  
 2014 Ursuline Academy A.P. Biology class, Harvard Museum of Natural History  
 2014 Adult Class, Avian Adaptation in a Changing World, Harvard Museum of Natural History  
 2012 Adult Class, Avian Evolution: Coloration in Bird Plumage, Harvard Museum of Natural History

### Student/Postdoctoral Fellow Mentorship

- 2020 – present **Elizabeth Safran**, PhD thesis committee member, University of California Los Angeles  
 2020 – present **Ben Scott**, MS thesis committee member, San Diego State University  
 2019 – 2020 **Jacqueline Dall**, undergraduate intern (InternLA), Occidental College  
 2018 – 2020 **Diego Fabian Beltran Segura**, MS thesis committee member, Universidad de Antioquia  
 2017 **Amelia Demery**, co-advisor with Scott Edwards, Sally Casanova Summer Research Student Internship, Harvard University  
 2015 - 2016 **Julia Yu**, co-advisor with Tim Sackton and Scott Edwards, Undergraduate Student, Harvard University  
 2014 - 2015 **Elisa Dierickx**, co-advisor with Scott Edwards, Post-undergraduate Intern, Harvard University

### FIELD EXPEDITIONS

- 2016 Three weeks of House Finch targeted research in Massachusetts  
 2014 Three week expedition to Washington, US to collect House Finches  
 2014 Two week expedition to Arizona to collect House Finches  
 2012 Four week expedition to northern and eastern Mongolia to collect bird specimens  
 2006 – 2007 Grinnell Resurvey Project participant, collected bird specimens in and near Lassen Volcanic National Park, California

### WORKSHOPS/COURSES ATTENDED

- 2015 **Harvard Business School Credential of Readiness (HBX CORE)**, Pass with high honors, Fall 2015  
 2015 **Harvard miniMBA**, Introduction to business  
 2013 **Summer Institute in Statistical Genetics**, University of Washington, Scholarship recipient for Population Genetics and Association Mapping, High-dimensional Omics Data, and Network and Pathway Analysis of Omics Data modules  
 2012 **Sao Paulo School of Advanced Science – evolution**, FAPESP and USP sponsored.  
 2010 **Comparative Methods and Macroevolution in R Summer Short Course**, NSF and NCEAS sponsored

### PROFESSIONAL MEMBERSHIPS

American Ornithological Society  
 Society for the Study of Evolution  
 Graduate Women in Science