David Tian

Department of Integrative Biology | Museum of Vertebrate Zoology

University of California, Berkeley (607) 342-2585 Life Sciences Building #3140 davidtian@berkeley.edu

Berkeley, CA 94720-3200 ORCID iD: 0000-0001-5285-6810

**EDUCATION**



2019-Present **University of California, Berkeley**

PhD Student in Integrative Biology | Museum of Vertebrate Zoology

Advisor: Christopher Martin

2013-2017 **Swarthmore College**

B.A. in Biology | Minor in History

Semester in Environmental Science at Marine Biological Laboratory (2015)

Advisor: Vince Formica

**PUBLICATIONS**



Published Concha, C., Wallbank, W. R., Hanly, J., Fenner, J., Livraghi, L., Santiago, E., Paulo, D., Arias, C., Vargas, M., Sanjeev, M., Morrison, C., **Tian, D.**, Massardo, D., Counterman, A. B., Scott, M., Jiggins, C., Papa, R., Martin, A. and W. O. McMillan. 2019. Interplay between developmental flexibility and determinism in the evolution of mimetic Heliconius wing patterns. *Current Biology*.

Zhao, Z., **Tian, D.**, and C. S. McBride. Development of a pan-neuronal driver in *Aedes aegypti* mosquitoes. *bioRxiv*.

In Review Formica, V., **Tian, D.,** and E. D. Brodie III*.* Social network position shapes nonlinear selection on weaponry.

Journalism **D. Tian**. 2016. Ecosystem Engineers: Modifying our Surrounding Environments. *Swarthmore Journal of Science.* 2(1):10-11.

**D. Tian**. 2015. Unraveling the Links Between Ecosystems and Public Health. *Swarthmore Journal of Science.* 1(2):36-37.

**PREVIOUS RESEARCH EXPERIENCE**



2017-2019 **Research Specialist** - Princeton University, McBride Lab

2017 **Research Assistant** - Swarthmore College, Formica Lab

2016 **REU Student** - Smithsonian Tropical Research Institute, McMillan Lab

2015 **Research Assistant** - Marine Biological Laboratory, Neill Lab

2015 **Research Assistant** - Swarthmore College, Kaplinsky Lab

2014 **Research Assistant** - Cornell University, Kessler Lab

**WORKSHOPS AND COURSES**



2017 Eco-Evolutionary Dynamics in Nature and the Lab, KITP

**TEACHING AND SOCIAL ENGAGEMENT**



Spring 2020 **Graduate Student Instructor** - UC Berkeley, Ecological Genetics

Fall 2019 **Graduate Student Instructor** - UC Berkeley, General Biology

Summer 2017 **Teaching Assistant** – KITP, Eco-Evolutionary Dynamics in Microbial Communities

Spring 2017 **Science Associate** - Swarthmore College, Organismal and Population Biology

Fall 2016 **Student Delegate** - Marrakech, Morocco, UNFCCC (COP22)

2016-2017 **Biology Editor** – Swarthmore College, Swarthmore Journal of Science

Summer 2015 **Student Mentor** - Swarthmore College, Science For Kids Program

2015-2016 **Biology Contributor** – Swarthmore College, Swarthmore Journal of Science

**PRESENTATIONS**



**Talks**

2017 Formica, V., **Tian, D.,** and E. D. Brodie III. Social network position shapes nonlinear selection on weaponry. Evolution 2017, Portland, OR.

2016 **Tian, D.**, Concha, C., and W.O. McMillan. Linking genotype to phenotype: Using CRISPR/Cas9 to alter the wing pattern coloration of *Heliconius* butterflies. REU Research Symposium, Smithsonian Tropical Research Institute.

2015 **Tian, D.** & C. Neill. Influence of soil characteristics on spatial distribution of Japanese Knotweed. SES Research Symposium, Marine Biological Laboratory.

**Posters**

2017 **Tian, D.**, Concha, C., & W.O. McMillan. Linking genotype to phenotype: Using CRISPR/Cas9 to alter the wing pattern coloration of *Heliconius* butterflies. Evolution 2017, Portland, OR.

2014 **Tian, D.**, Morrell, K., & A. Kessler. Protease inhibitors are induced by herbivore suites as a defense response in tall goldenrod (*Solidago altissima*). Sigma Xi Student Research Poster Session, Swarthmore College.

**GRANTS AND AWARDS**



2020-2023 NSF Graduate Research Fellow $138,000

2020 Wilhelm L. F. Martens Fund $2,000

2016 REU Summer Research Grant $6,000

2015 HHMI Summer Research Grant $4,350

2014 S. Theodore Lande Research Fellowship $4,350

**REFERENCES**



Christopher Martin, Assistant Professor, UC Berkeley chmartin@berkeley.edu

Lindy McBride, Assistant Professor, Princeton University csm7@princeton.edu

Vince Formica, Associate Professor, Swarthmore College vformic1@swarthmore.edu

W. Owen McMillan, Staff Scientist, STRI mcmillano@si.edu