

# David Tian

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## EDUCATION

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- 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

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- 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

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- 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**

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

**TEACHING AND SOCIAL ENGAGEMENT**

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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**

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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

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Christopher Martin, Assistant Professor, UC Berkeley  
Lindy McBride, Assistant Professor, Princeton University  
Vince Formica, Associate Professor, Swarthmore College  
W. Owen McMillan, Staff Scientist, STRI

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