

David Tian

Department of Integrative Biology | Museum of Vertebrate Zoology
University of California, Berkeley
Life Sciences Building #3140
Berkeley, CA 94720-3200

(607) 342-2585
tiandavid.github.io
davidtian@berkeley.edu
ORCID iD: 0000-0001-5285-6810

EDUCATION

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

PhD Candidate 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 **Tian, D.**, Patton, A.H., Turner, B. J., and C. H. Martin. 2022. Severe inbreeding, increased mutation load and gene loss-of-function in the critically endangered Devils Hole pupfish. *Proceedings of the Royal Society B*.

Zhao, Z., **Tian, D.**, and C. S. McBride. 2021. Development of a pan-neuronal driver in *Aedes aegypti* mosquitoes. *Cell Reports Methods*.

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*.

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
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TEACHING

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

OUTREACH AND SOCIAL ENGAGEMENT

Fall 2022	Co-organizer – Integrative Biology Research Mixers
Fall 2022	Mentor/Reviewer – UC Berkeley GRFP Workshop
Spring 2022	Mentor - Breaking Language Barriers in Ecology and Evolution
Spring 2022	Curriculum Developer – Biological Collections in Ecology and Evolution Network
Fall 2021	Volunteer – Skype a Scientist Program
Spring 2021	Mentor – Willard Middle School (Berkeley, CA) Be a Scientist Program
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

2022	Contributed talk. NACCB 2022, Reno, NV.
2022	Poster. PEQG 2022, Asilomar, CA.
2022	Invited talk. Museum of Vertebrate Zoology Symposium, UC Berkeley. *Received award for best student presentation
2021	Guest lecture. Ichthyology, UC Berkeley
2021	Contributed talk. Ecological and Evolutionary Ethology of Fishes 2021. *Received Jack Ward Memorial Prize for best oral presentation
2021	Contributed talk. Virtual Evolution 2021.
2021	Invited talk. Devils Hole Pupfish ICT Meeting, National Park Service.
2021	Contributed talk. Bay Area Conservation Biology Symposium.
2021	Contributed talk. Museum of Vertebrate Zoology Symposium, UC Berkeley.
2020	Guest lecture. Ichthyology, UC Berkeley
2020	Contributed talk. Museum of Vertebrate Zoology Symposium, UC Berkeley.

2016	Contributed talk. REU Symposium, Smithsonian Tropical Research Institute.
2015	Contributed talk. SES Symposium, Marine Biological Laboratory.
2017	Poster. Evolution 2017, Portland, OR.
2014	Poster. Sigma Xi Student Research Poster Session, Swarthmore College.

GRANTS AND AWARDS

2022	MVZ Travel Fund	\$500
2022	IB GRAC Travel Fund	\$250
2022	Integrative Biology Summer Research Award	\$2,870
2022	David and Marvalee Wake Fund	\$1,500
2021	Robert and Nancy Beim Endowed Graduate Field Research Fund	\$2,800
2021	MVZ Travel Fund	\$35
2021	Graduate Student Research Fund	\$260
2021	Wilhelm L. F. Martens Fund	\$1,500
2020-2023	NSF Graduate Research Fellow	\$138,000
2020	Graduate Student Research Fund	\$200
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

MENTORSHIP

2022	REU Mentor - Tina Cai, Middlebury College
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REVIEWING

Molecular Ecology Resources

AFFILIATIONS AND MEMBERSHIP

Society for Study of Evolution
Genetics Society of America

MEDIA COVERAGE

Sanders, Robert. "[Endangered Devils Hole pupfish is one of the most inbred animals known](#)"
Berkeley News. November 4, 2022
Secon, Holly. "[Rarest Fish on Earth: Devils Hole Pupfish](#)" Discover Magazine. May 11, 2022

REFERENCES

Christopher Martin, Assistant Professor, UC Berkeley
Craig Miller, Assistant Professor, UC Berkeley
Priya Moorjani, Assistant Professor, UC Berkeley
Stephanie Carlson, Professor, UC Berkeley

chmartin@berkeley.edu
ctmiller@berkeley.edu
moorjani@berkeley.edu
smcarlson@berkeley.edu