

# SILIANG SONG

500 S. State Street, Ann Arbor, MI 48109 USA  
734-272-9252 ◦ siliangs@umich.edu

## EDUCATION

---

**Ph.D. in Ecology and Evolutionary Biology** 09/2019-now  
University of Michigan, Ann Arbor MI, US  
- Advisor: Dr. Jianzhi “George” Zhang

**B.Sc. in Biological Science** 09/2014-06/2018  
Zhejiang University, Chu Kochen Honors College Hangzhou, China  
- Major GPA: 3.89/4.00, ranking 1/20

## AWARDS & FELLOWSHIPS

---

Best Student Presenter in CSST summer program, UCLA 9/2017  
First-Class Scholarship for Outstanding Merits 2015&2016&2017  
Zhejiang Provincial Government Scholarship 10/2016  
Excellent project of Zhejiang University SQTP (Students Quality Training Project) 04/2016  
First-Class Scholarship for Elite Students in Basic Sciences 12/2015  
First Prize of Zhejiang Province College Students Physical Innovation Competition 12/2015  
Second Prize of Chinese Physics Olympiad in Zhejiang Division 10/2013

## GRANTS

---

Block Grant, Department of Ecology and Evolutionary Biology, University of Michigan 2019

## TEACHING EXPERIENCE

---

- BIO 305 “Genetics”  
Graduate Student Instructor, University of Michigan, Ann Arbor 1/2020-4/2020, 1/2021-4/2021  
- BIO 173 “Introductory Biology Laboratory”  
Graduate Student Instructor, University of Michigan, Ann Arbor 9/2019-12/2019

## RESEARCH EXPERIENCE

---

**Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor** 09/2019-  
*Ph.D. Student, Advisor: Dr. Jianzhi Zhang* Ann Arbor, MI  
Project: (1) Unbiased inference of the fitness landscape ruggedness from imprecise fitness estimates  
(2) Testing evolutionary hypotheses using human genomes and phenomes

**Department of Organismic and Evolutionary Biology, Harvard University** 05/2018-09/2018  
*Remote Research Assistant, Advisor: Dr. James Mallet* Hangzhou, China  
Project: Elucidating the history and functional significance of a large inversion in *Heliconius*

**Department of Organismic and Evolutionary Biology, Harvard University** 10/2017-04/2018  
*Intern Research Assistant, Advisor: Dr. Naomi Pierce* Cambridge, MA  
Project: Lepidoptera opsin gene screening for differences between diurnal and nocturnal species

**The Cross-disciplinary Scholars in Science and Technology (CSST) Program, University of California, Los Angeles (UCLA)** 07/2017-09/2017  
*Intern Research Assistant, Advisor: Dr. Brad Shaffer* Los Angeles, CA  
Project: Revealing phylogeny of Ambystomatidae using thousands of genes from targeted enrichment

**Institute of Insect sciences, Zhejiang University** 11/2015-07/2017  
*Undergraduate Research Assistant, Advisor: Dr. Xuexin Chen* Hangzhou, China  
Project: Hymenoptera Taxonomy & Phylogeny Practice

## **PUBLICATIONS**

---

Lienard, M.A., Bernard, G.D., Allen, A., Lassance, J.M., **Song, S.**, Childers, R.R., Yu, N., Ye, D., Stephenson, A., Montoya, W.A., Salzman, S., Whitaker, M.R., Calonje, M., Zhang, F. and Pierce, N. (2021) The evolution of red colour vision is linked to coordinated rhodopsin tuning in lycaenid butterflies. Manuscript submitted for publication. *Proc. Natl. Acad. Sci. USA* 118: e2008986118

**Song, S.**, and J. Zhang (2021) Unbiased inference of the fitness landscape ruggedness from imprecise fitness estimates. Manuscript submitted for publication.

Wang, R., Wu, S., Yang, X., Qian, Y., Choi, J.P., Gao, R., **Song, S.**, Wang, Y., Zhuang, T., Wong, J., Zhang, Y., Han, Z., Lu, H., Alexander S.I., Liu, R., Xia, Y. and Zheng, X. (2020) Pcd10-Stk24/25 complex controls kidney water reabsorption by regulating Ezrin-mediated Aqp2 endocytosis. Manuscript submitted for publication.

## **PRESENTATIONS**

---

“Testing evolutionary hypotheses using human genomes and phenomes”, EEB student evaluation seminar, University of Michigan, Ann Arbor 1/2021

“Reconstruction of Ambystomatidae Phylogeny using Thousands of Targeted Genes”, CSST summer program, University of California, Los Angeles 9/2017

## **PROFESSIONAL SOCIETIES**

---

Member of Society for Molecular Biology and Evolution (SMBE)

## **SERVICE & OUTREACH**

---

Grad Student Council (GREEBS) Representative on EEB Seminar Committee, UMich 6/2020-now  
Student Volunteer for Zhejiang University Annual Group Wedding Ceremony 5/2017  
Referee and Organizer for Sanhao Cup Basketball Match, Zhejiang University 2015-2017