

## **Ayşe Tenger-Trolander, PhD.**

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### **Education & Training**

- 2021 - Present      Postdoctoral Fellow, Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI.  
Advisor: Dr. Patricia Wittkopp
- 2014 – 2020      PhD. Department of Ecology and Evolution, University of Chicago, Chicago, IL.  
Dissertation: "Maintenance and loss of migration and migration-associated phenotypes in monarch butterflies."  
Advisor: Dr. Marcus Kronforst
- 2007 – 2011      B.A. Biology, Carleton College, Northfield, MN

### **Additional Training**

- 2011- 2013      Research Assistant, Harvard University and University of Chicago  
Advisor: Dr. Marcus Kronforst
- 2010      Undergraduate Research Program, Cold Spring Harbor Laboratories, Cold Spring Harbor, NY.  
Advisor: Dr. Alea Mills
- Research Assistant, Carleton College, Northfield, MN.  
Advisor: Dr. Stephan Zweifel

### **Community Service**

- 2013 – 2014      Full-time English Language Learner Academic Coach, City of Lakes, AmeriCorps, Minneapolis Public Schools

### **Outreach**

- 2016 – 2018      Biology and Chemistry Tutor, Ace Technical Charter School, Chicago Public Schools
- 2018 – 2019      Director, Genome Hackers, University of Chicago, summer program for young women in STEM

### **Teaching**

- 2014 – 2019      Graduate Teaching Assistant, University of Chicago
- Introduction to Ecology and Evolution (lab instructor)
  - How can we understand the Biosphere? (lab instructor)
  - Grants, publications, and professional issues, graduate seminar
- 2009 – 2011      Undergraduate Teaching Assistant, Carleton College
- Development, Genes, and Evolution (lab instructor)
  - Introduction to Genetics (lab instructor)

## Publications

\*Equal Contribution

† Mentee coauthor

**Tenger-Trolander, A\***, Cole R. Julick\*, Lu, W. †, Green, D. A., Montooth, K. L. & Kronforst, M.R. Seasonal plasticity in morphology and metabolism differs between migratory North American and resident Costa Rican monarch butterflies. *Submitted*.

**Tenger-Trolander, A.** & Kronforst, M. R. Migration behaviour of commercial monarchs reared outdoors and wild-derived monarchs reared indoors. *Proceedings of the Royal Society B: Biological Sciences* 287, 20201326 (2020).

**Tenger-Trolander, A.**, Lu, W. †, Noyes, M†. & Kronforst, M. R. Contemporary loss of migration in monarch butterflies. *PNAS* 116, 14671–14676 (2019).

Westerman, E.L., Lechtinger, R., **Tenger-Trolander, A.**, Massardo, D., Palmer, S. E., & Kronforst, M. R. Does male preference play a role in maintaining female limited polymorphism in a Batesian mimetic butterfly? *Behavioural Processes* 150, 47–58 (2018).

Westerman, E. L., VanKuren, N.W., Massardo, D., **Tenger-Trolander, A.**, Zhang, W., Hill, R., Perry, M., Bayala, E., Barr, K., Chamberlain, N., Douglas, T., Buerkle, N., Palmer, S. E., & Kronforst, M. R. Aristaless Controls Butterfly Wing Color Variation Used in Mimicry and Mate Choice. *Current Biology* 28, 3469–3474.e4 (2018).

Kunte, K., Zhang, W., **Tenger-Trolander, A.**, Palmer, D. H., Martin, A., Reed, R. D., Mullen, S. P., & Kronforst, M. R. doublesex is a mimicry supergene. *Nature* 507, 229–232 (2014).

The Heliconius Genome Consortium *et al.* Butterfly genome reveals promiscuous exchange of mimicry adaptations among species. *Nature* 487, 94–98 (2012).

## Grants

2019

Hinds Fund. Committee on Evolutionary Biology, University of Chicago. Award: \$2,000.

2019

Women's Board, University of Chicago, Genome Hackers grant, Award: \$12,500. Co-prepared with Rebecca Satterwhite.

2016

US Fish and Wildlife Service Research Grant. "The Genetic and Environmental Basis of Monarch Butterfly Migration". Co-authors: Delbert Andre Green (PI: University of Michigan), Marcus Kronforst (PI: University of Chicago). Award: \$22,000

2015 – 2019

National Science Foundation, Graduate Research Fellowship Program Recipient

2013 – 2014

National Institutes of Health, T32 Genetics and Regulation Training Grant Recipient

## Student Mentoring

2014 - 2020

Michelle Noyes (PhD student, University of Washington), Wei Lu (PhD student, University of Chicago), Elena Sparrow (4<sup>th</sup> year, Bowdoin College), Josue Pantoja (3<sup>rd</sup> year, Concordia University), Attzy Rodriguez (1<sup>st</sup> year, Northwestern University)

## Professional Service

2019 – 2020

Peer reviewer for *Journal of Evolutionary Biology*, *Biological Letters*, *Frontiers Ecology and Evolution*, *Communications Biology*

## Presentations

2020

Research Reports from the Field: Monarch Biology and Rearing, Monarch Joint Venture Monarch Conservation Webinar Series

2019

Society for the Study of Evolution – “Use it or lose it: Contemporary loss of migration in commercially sourced monarch butterflies”

Animal Behavior Society – “Contemporary loss of migration in commercially-sourced monarch butterflies”