

## Foen Peng, Ph.D.

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Department of Biology  
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<https://scholar.google.com/citations?user=7z5P4dIAAAAJ&hl=e>

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### EDUCATION

- 09/2013-05/2018    **Ph.D. Biology, University of Washington, Seattle, WA, USA**  
Advisors: Dr. Toby Bradshaw and Dr. Thomas Daniel  
Committee: Dr. Benjamin Kerr and Dr. Harmit Malik
- 09/2005-06/2011    **B.S. Urban Planning, East China Normal University, Shanghai, China**

### WORK EXPERIENCES

- 07/2021-            **Assistant Professor**  
Haverford College, PA
- 09/2018-06/2021    **Postdoctoral Research Associate, Advised by Dr. Daniel Bolnick**  
University of Connecticut, CT  
The genomic basis of stickleback's immune resistance against tapeworm
- 09/2013-08/2018    **Graduate Research Assistant, advised by Dr. Toby Bradshaw and Dr. Thomas Daniel**  
University of Washington, WA  
Hidden conflict in pollination and its implications for diversification
- 09/2011-06/2013    **Gap year research, advised by Dr. Xiao-Yong Chen**  
East China Normal University, China  
Pollinator's effectiveness in mediating plant's vs. pollinator's gene flow

### AWARDS AND HONORS

- **Runner-Up**, W.D. Hamilton Award, Society for the Study of Evolution, 2017
- **Diversity Grant**, UW Office of Minority Affairs and Diversity, 2017
- **Travel Award**, BEACON *Evolution in Action* conference, 2016
- **Best Poster**, 2nd place, "Mechanisms of Plant Speciation" International Conference EMBO, Sweden, 2015
- **Scholarship**, OTS Ecology of Climate Change Workshop, 2014
- **Benjamin Hall International Student Fellowship**, University of Washington, 2013
- **National Aspiration Scholarship**, East China Normal University, 2006 and 2010

- **Top Grade (2%) Scholarship**, East China Normal University, 2006
- **First Award**, High School Biology Olympiad, China, 2004

## SERVICES AND OUTREACH

- **Undergraduate Career Advisory Group**, UConn, 2019
- **UConn Science Salon**, Outreach program for kids age 5-12, 2018
- **Diversity Initiative**, UW Department of Biology, 2017
- **Faculty Search Committee**, UW Department of Biology, 2016 and 2017
- **Undergraduate Curriculum Committee**, UW Department of Biology, 2014
- **Campus Ambassador for Teach For China**, ECNU, Shanghai, 2009-2011

## PUBLICATIONS

- Peng F., K. Ballare, S H. Woodard, S. D. Haan, D. I. Bolnick. 2021. What evolutionary processes maintain MHCII $\beta$  diversity within and among populations of stickleback? *Molecular Ecology* 30(7):1659-1671
- Ding, B., E. L. Patterson, S. V. Holalu, J. Li, G. A. Johnson, L. E. Stanley, A. B. Greenlee, F. Peng, H. D. Bradshaw Jr., M.L. Blinov, B.K. Blackman, Y.W. Yuan. 2020 Two MYB Proteins in a Self-Organizing Activator-Inhibitor System Produce Spotted Pigmentation Patterns. *Current Biology* 30(5):802-814
- Peng, F., E. O. Campos, J. G. Sullivan, N. Berry, B. B. Song, T. L. Daniel, and H. D. Bradshaw. 2019. Morphospace exploration reveals divergent fitness optima between plants and pollinators. *PLoS ONE* 14(3), e0213029.
- Peng, F., K. J. R. P. Byers and H. D. Bradshaw. 2017. Less is more: independent loss-of-function *OCIMENE SYNTHASE* alleles parallel pollination syndrome diversification in monkeyflowers (*Mimulus*). *American Journal of Botany* 104(7): 1055-1059
- Ding, B., F. Mou, W. Sun, S. Chen, F. Peng, H. D. Bradshaw and Y.W. Yuan. 2016. A dominant-negative actin mutation alters corolla tube width and pollinator visitation in *Mimulus lewisii*. *New Phytologist*. 213(4): 1936-1944
- Liu, M., S. G. Compton, F. Peng, J. Zhang, and X.Y. Chen. 2015. Movements of genes between populations: are pollinators more effective at transferring their own or plant genetic markers? *Proc. R. Soc. Lond. B*. 282: 20150290
- Byers, K. J. R. P., J. P. Vela, F. Peng, J. A. Riffell, and H. D. Bradshaw. 2014. Floral volatile alleles can contribute to pollinator-mediated reproductive isolation in monkeyflowers (*Mimulus*). *The Plant Journal*. 80(6): 1031-1042

## **PRESENTATIONS**

- (Poster) The genetic basis of stickleback's resistance against tapeworm parasite. Society for the Study of Evolution, Providence, RI, US 2019
- (Talk) Misaligned interests between plants and pollinators revealed through functional exploration of flower morphospace. Society for the Study of Evolution, Portland, Oregon, US 2017
- (Talk) Engineering plant-pollinator interaction: unconstrained exploration of flower theoretical morphospace. BEACON Annual Congress, East Lansing, Michigan, US 2016
- (Poster) Multiple independent loss-of-function of a scent gene parallel pollination syndrome diversification in *Mimulus*. Society for the Study of Evolution, Austin, Texas, US 2016
- (Poster) Multiple independent loss-of-function of a scent gene parallel pollination syndrome diversification in *Mimulus*. "Mechanisms of Plant Speciation" EMBO Conference, Sweden, 2015