

## Lu “Ling” YANG

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### EDUCATION

- **Ph.D.** Department of Ecology and Evolutionary Biology, Princeton University 2014 - Current  
*Advisor: Peter Andolfatto*
- **B.S.** School of Life Sciences, Peking University 2014

### RESEARCH EXPERIENCES

- **Research Assistant**, Department of Ecology and Evolutionary Biology 2014 - Current  
Princeton University, Princeton, NJ; *supervised by Prof. Peter Andolfatto*
- **Summer Research Assistant**, Department of Molecular Genetics 2013  
University of Toronto, Toronto, Canada; *supervised by Prof. Charlie Boone*
- **Winter Research Assistant**, Graduate School of Natural Science and Technology 2013  
University of Okayama, Okayama, Japan; *supervised by Prof. Jinglong Wu*

### PUBLICATIONS

- **Yang L**, Aardema ML, Zhen Y, Ding J, Andolfatto P. The evolution of Na<sup>+</sup>,K<sup>+</sup>-ATPase in relation to predatory feeding and bufodienolides sequestration in fireflies. (*in prep.*)
- **Yang L**, Ding J, R N, Deshmukh R, Kunte K, Picker M, Andolfatto P. Predictable evolution of Orthopteran cardenolide insensitivity. (*in prep.*)
- Van Leeuwen, J. *et al.* Exploring genetic suppression interactions on a global scale. *Science* **354**, (2016)
- **Yang L**, Yang J, Nakamura N, Wu J. Difference of audiovisual integration between Alzheimer’s Disease Patients and Age-matched Healthy Controls: An fMRI Study. In *Proceedings of 2013 International Conference on Complex Medical Engineering*, May 25-28, 2013, Beijing, China, 19-24.

### PRESENTATIONS

- (Invited talk) "Predictable evolution of toxin resistance in insects and vertebrates." University of Gissen, Germany, 2017
- “The evolution of Na<sup>+</sup>,K<sup>+</sup>-ATPase in relation to predatory feeding and lucibufagins sequestration in fireflies. *Princeton-Penn-Rutgers-Columbia conference in evolution (PPRC)*, Columbia University, 2017
- “Potential mechanisms of toxin insensitivity in firefly femme fatale”. *International Firefly Symposium*, Taipei City, Taiwan, 2017
- “An fMRI Study of audiovisual integration issues in Alzheimer’s Disease”. *ICME International Conference on Complex Medical Engineering*, Beijing, China, 2013

### POSTERS

- “The evolution of Na<sup>+</sup>,K<sup>+</sup>-ATPase in relation to predatory feeding and lucibufagins sequestration in fireflies”. *SMBE*, Austin, TX, 2017
- “The evolution of Na<sup>+</sup>, K<sup>+</sup>-ATPase in relation to predatory feeding and lucibufagin sequestration in fireflies”. *Princeton Research Day*, Princeton University, 2017
- “Predictable evolution of Orthopteran cardenolide insensitivity”. *Evolution in Philadelphia Conference*, University of Pennsylvania, 2017

## RESEARCH GRANTS, AWARDS and PRIZES

- Travel awards of *International Firefly Symposium* 2017
- First Year Fellowship, Princeton University 2015
- Scholarship of Research-Oriented Elite Program, Peking University 2013
- “Best Wiki” prize, International Genetically Engineering Machine Competition, MIT 2012
- Award for PKU academic excellence, Peking University 2011, 2012
- Scholarship for honored freshmen, Peking University 2010

## TEACHING EXPERIENCES

- EEB 309 Evolutionary Biology, Princeton University. *Prof. Bridgett vonHoldt* 2016, 2017
- EEB 311A Animal Behavior, Princeton University. *Prof. James Gould* 2015, 2017

## STUDENT MENTORING

- Karen Zhang, Sophomore at Princeton University 2017  
“Parallel evolution of cardenolide resistance in amphibians and reptiles”
- Marian Wu, Senior at EEB, Princeton University, Honors Thesis Research 2016-2017  
“Adaptive gene expression regulation in milkweed bugs”
- Regina Visconti, Freshman at Tampa University, Princeton Biophysics REU program 2016  
“The chemistry of cardenolides and bufodenolides sequestered by plants and animals”
- Adam Rosenstein, Senior at EEB, Princeton University, Senior Thesis Research 2015-2016  
“Parallel evolution of cardenolide resistance across insect orders”

## OUTREACH

- Session chair of Princeton Research Day 2017
- Judge for Hopewell Elementary Science Fair 2017
- Organizer of Princeton-Penn-Rutgers-Columbia conference in Evolution (PPRC) 2015, 2016, 2017