

EDUCATION

First year PhD student. University of Washington Department of Biology, Seattle WA.

B.S. Cellular, Molecular, & Developmental Biology with departmental Honors and a Chemistry Minor.

University of Washington 2010 - 2014

RESEARCH

I study learning and memory in *Aedes aegypti*, a disease vector mosquito that transmits Dengue fever and yellow fever. I am particularly interested in the neuroethology and ecological relevance of learning behavior. Throughout my PhD I plan to investigate the significance of *Aedes* learning in the context of foraging, oviposition, and predator avoidance. I would also like to examine the electrophysiological properties of neuronal plasticity in ecologically important decision-making.

PUBLICATIONS & PRESENTATIONS

- Vinauger, C., Lutz, E.K., Riffell, J.A. (2014). Olfactory learning and memory in the disease vector mosquito, *Aedes aegypti*. *Journal of Experimental Biology*. doi: 10.1242/jeb.101279
- Lutz E.K., J. Stephens, J.A. Riffell, and J.Z. Parrish. Olfactory learning in adult and larvae *Aedes aegypti* mosquitoes. Undergraduate Research Symposium, UW 2013
- Lutz E.K., and J.A. Riffell. Visual and olfactory learning in *Anopheles stephensi* and *Aedes aegypti* mosquitoes. SICB Conference, San Francisco 2013
- Lutz E.K., and J.A. Riffell. Classical conditioning and olfactory stimulation in mosquitoes. Undergraduate Research Symposium, UW 2012

GRANTS & ACADEMIC AWARDS

GRADUATE RESEARCH:

- Robin Mariko Harris Award 2016
- Harvard ComSciCon Travel Award 2016
- NSF Graduate Research Fellowship 2015
- Natural Sciences Dean's Scholarship 2015

UNDERGRADUATE AWARDS:

- NASA Space Grant Summer Undergraduate Research Program 2013
- Second place, Washington Consortium for the Liberal Arts Essay Contest, 2013
- Mary Gates Leadership Scholarship 2012
- Charlotte Mangum Student Support Program 2012
- University of Washington Undergraduate Conference Travel Award 2012
- Mary Gates Research Scholarship 2011
- Robert C. Byrd Honors Scholarship 2010
- Mary Gates Honors Endowment 2010

PUBLIC OUTREACH & SCIENCE COMMUNICATION AWARDS

- Invited Judge, NSF Science Visualization Competition 2015
- Gold medal, "Information is Beautiful" Data Communication Award 2015
- Invited Speaker, Malofiej World Infographics Conference. Pamplona, Spain 2015
- Silver medal, Malofiej World Infographics 2015

CONTRIBUTED TO:

- "Creatures of Light," a National Geographic & PBS documentary. February 2016
- National Geographic Magazine. March 2015
- "Best American Infographics 2015" Houghton Mifflin Harcourt Publishing 2015
- "Atlas of Design" North American Cartographic Information Society. American Printing 2014
- "Maps of the Year" Wired 2014
- "18 Best Infographics of 2014" Fast Company 2014