

# CAITLIN I. LOOBY

University of California, Irvine, Dept of Ecology and Evolutionary Biology  
321 Steinhaus Hall, Irvine, CA, 92697  
Email: clooby@uci.edu, Phone: 908-752-3086

## EDUCATION

- 2012-present     **Ph.D. in Ecology and Evolutionary Biology**, University of California, Irvine,  
Advisor: Kathleen K. Treseder  
Thesis: Belowground Responses to Elevation in a Tropical Montane Cloud  
Forest
- 2010-2012     **M.S. Biotechnology Science**, Kean University, Union, NJ  
Advisor: William D. Eaton
- 2005-2009     **B.S. Molecular and Cellular Biology**, University of Connecticut, Storrs, CT,  
Minors: Ecology and Evolutionary Biology, Chemistry
- 2008            **Council on International Educational Exchange (CIEE) Tropical Biology  
and Conservation**, Monteverde, Costa Rica

## APPOINTMENTS

- 2017-present     Environmental Journalism Program, mongabay.com
- 2016-present     Script writer, *The Loh Down on Science* Radio Program
- 2016-17           GAANN Fellow, University of California, Irvine
- 2016              Climate Communication Specialist, University of California, Irvine
- 2014-16           EPA STAR Fellow
- 2013-14           GAANN Fellow, University of California, Irvine
- 2012-14           Teaching Assistant, University of California, Irvine
- 2011-12           Teaching Assistant, Kean University
- 2010-12           Graduate Assistant, Kean University
- 2010              NSF REU Research Assistant, Kean University
- 2010              Academic Specialist, Kean University
- 2009              NSF REU Fellow, Peninsula College

## PEER-REVIEWED PUBLICATIONS

- Looby, C.I.,** K.K. Treseder. Shifts in soil fungi and decomposition with simulated climate change in a tropical montane cloud forest. Submitted to *Soil Biology and Biogeochemistry*
- Looby, C.I.,** M.R. Maltz, K.K. Treseder. 2016. Belowground responses to elevation in a changing cloud forest. *Ecology and Evolution* 6: 1996-2009.
- Looby, C,** W.D. Eaton. 2014. Effects of *Bromelia pinguin* (Bromeliaceae) on soil ecosystem function in the lowland forests of Costa Rica. *BMC Ecology* 14:12-20.

Eaton, W.D., D. Shebitz, K. Niemiera, **C. Looby**. 2012. The effects of the N-fixing tree *Pentaclethra maculosa* on the above and below ground communities within a primary forest in the Northern Zone of Costa Rica. In: M. Ali (ed), *The Functioning of Ecosystems*, InTech Publications, pp 57-78.

**Looby, C.**, J.B. Hauge, D. Barry, W. D. Eaton. 2012. Fungal inhibition by *Bromelia pinguin* (Bromeliaceae) and its effect on nutrient cycle dynamics. *Tropical Ecology* 53:225-234.

### **MANUSCRIPTS IN PREPARATION**

**Looby, C.I.**, E.C. Heyne, K.K. Treseder. Carbon in the canopy: how soil fungi and extracellular enzymes differ in canopy and ground soils. (To be submitted by July 2017)

**Looby, C.I.**, K.K. Treseder. Evolutionary trade-offs in responses of decomposers to climate change. (To be submitted by August 2017)

### **MEDIA COVERAGE**

“Efecto en cadena: el bosque nuboso en riesgo por impacto del cambio climático en sus hongos,” Scientific American Español, June 2016

“Observing Fungi in a Mountain Cloud Forest,” UCI Magazine, Spring 2016

“Fungus Among Us: Biologists Study Global Warming from Costa Rica,” Costa Rica Star News, March 2016

“Even Plant-supporting Soil Fungi Affected by Global Warming, UCI study finds,” UCI News, March 2016

“Looby Researches Microbial Ecology in the Tropics,” Kean Xchange, May 2012

### **FELLOWSHIPS AND AWARDS**

2017	University of California, Irvine Grad Slam Finals, Third Place
2016-17	GAANN Fellowship, University of California, Irvine
2015-17	NSF Doctoral Dissertation Improvement Grant
2016	Graduate Student Fellowship Award, University of California, Irvine
2016	University of California Carbon Slam, Third Place (Poster Competition)
2014-16	EPA STAR Fellowship
2013-14	GAANN Fellowship, University of California, Irvine
2013	Newkirk Center Fellowship, University of California, Irvine
2013	Edward A. Steinhaus Teaching Award, University of California, Irvine
2012-13	Graduate Recruitment Fellowship, University of California, Irvine
2010-12	Graduate Assistant Fellowship, Kean University
2009	NSF REU Fellow, Peninsula College

**SCIENCE COMMUNICATION****LOH DOWN ON SCIENCE RADIO SCRIPTS**

TBD	“Ballsy Bees”
TBD	“Foul-mouthed Facts”
TBD	“Cannibal Conquerors”
TBD	“Wasteful Attitudes”
Apr 19, 2017	“Cool Doo!”
Apr 18, 2017	“Social Survivors”
Apr 3, 2017	“Uber Convenient”
Mar 6, 2017	“State of Stubborn”
Feb 6, 2017	“Bug Burger”
Jan 20, 2017	“Super Spinach”
Dec 8, 2016	“Squirt Crusaders”
Oct 21, 2016	“#YO-LOH”
Oct 3, 2016	“Gold Medal Sperm”
Aug 3, 2016	“Foot Flagging Frogs”
Jul 21, 2016	“P is for Power”
June 1, 2016	“Antwater Rafting”

**ENVIRONMENTAL NEWS REPORTING FOR MONGABAY**

Apr 7, 2017	“Murky future for freshwater fish in the Amazon floodplains”
Mar 6, 2017	“A Christmas Miracle? Perhaps someday”
Mar 3, 2017	“Discovering the Congo carbon sink”

**FEATURE ARTICLES**

- Looby, C.** 2016. Inside the Climate Action Champions Website. UC Climate Action Champions. <http://climatechampions.ucop.edu/2016/11/02/inside-uc-climate-champions-website/>
- Looby, C.** 2016. Competing towards a common goal. UC Climate Action Champions. <http://climatechampions.ucop.edu/2016/11/02/competing-towards-a-common-goal/>
- Looby, C.** 2016. The Big Yellow Goes Green. UCI Sustainability. <http://sustainability.uci.edu/2016/07/19/the-big-yellow-goes-green/>
- Looby, C.** 2016. Turning Tides: A Glimpse into our Future of Rising Sea Levels. *Canoe and Kayak Magazine*. <http://www.canoekayak.com/news/environment/turning-tides/>
- Looby, C.I., K.K. Treseder.** 2015. The Invisible Power Players in Climate Change. *Cultures Magazine* 2:44-49.
- Looby, C.I., K.K. Treseder.** 2015. Working in the Field: New Solutions for Old Problems. *Association for Women in Science Magazine* 47:43-50.
- Marshal, K., **C. Looby**, K. McGee, W. D. Eaton, L. Mackey Lorentzen. 2011. Women's Association in Rural Costa Rica Offers Insight into Growing a Small Idea into

Something Sustainable. *Association for Women in Science Magazine*. 42:17-19.

### **PRESENTATIONS**

**Looby, C. I.**, E.C. Heyne, K.K. Treseder. August 2017. Living life up high: How fungi differ between canopy and terrestrial soils in a tropical montane cloud forest. Ecological Society of America, Portland, OR. (Invited)

**Looby, C. I.** April 2017. Invisible climate changers. UCI Grad Slam Finals, Irvine, CA.  
**\*AWARDED THIRD PLACE**

**Looby, C. I.**, K.K. Treseder. August 2016. Fungi under the clouds: the effect of changing temperature on fungal diversity in a tropical montane cloud forest. Ecological Society of America, Ft. Lauderdale, FL.

**Looby, C. I.**, K.K. Treseder (presenting author). August 2016. Evolutionary trade-offs in responses of decomposers to climate change. Ecological Society of America, Ft. Lauderdale, FL.

**Looby, C. I.** May 2016. Invisible climate changers [poster]. University of California Carbon Slam Competition, Palo Alto, CA. **\*AWARDED THIRD PLACE**

**Looby, C. I.**, K.K. Treseder. April 2016. Invisible climate changes in a tropical montane cloud forest. UCI Association for Graduate Students Graduate Research Symposium, Irvine, CA.

**Looby, C. I.**, K.K. Treseder. August 2014. Belowground responses to elevation in a tropical montane cloud forest. Ecological Society of America, Sacramento, CA.

**Looby, C. I.**, W.D. Eaton. August 2012. Inhibitory effects of *Bromelia pinguin* (Bromeliaceae) on soil ecosystems in primary forests of Costa Rica [poster]. Ecological Society of America, Portland, OR.

**Looby, C. I.**, May 2012. Effects of *Bromelia pinguin* (Bromeliaceae) on soil ecosystem function in the lowland forests of Costa Rica [Master's defense]. Kean University, Union, NJ.

**Looby, C. I.**, W.D. Eaton. April 2012. Inhibitory effects of *Bromelia pinguin* (Bromeliaceae) on soil ecosystems in primary forests of Costa Rica [poster]. Ecological Society of America Mid-Atlantic Chapter, Blacksburg, VA.

**Looby, C. I.**, W.D. Eaton. October 2011. Inhibitory effects of *Bromelia pinguin* (Bromeliaceae) on soil ecosystems in primary forests of Costa Rica [poster]. 3<sup>rd</sup> Annual Argonne Soil Metagenomics Workshop, Chicago, IL.

**Looby, C. I.**, W.D. Eaton. April 2011. Inhibitory effects of *Bromelia pinguin* (Bromeliaceae) on soil ecosystems in primary forests of Costa Rica [poster]. Kean University Research Day, Union, NJ.

**TEACHING EXPERIENCE**

2017 Organisms to Ecosystems, Teaching Assistant, University of California, Irvine  
 2013-14 Philosophy of Biology, Teaching Assistant, University of California, Irvine  
 2013 Limnology, Teaching Assistant, University of California, Irvine  
 2012 Field Methods in Ecology, Teaching Assistant, University of California, Irvine  
 2011-12 Principles of Microbiology Lab, Co-instructor, Kean University

**PROFESSIONAL SERVICE****AFFILIATIONS**

2014-present Association for Tropical Biology and Conservation  
 2012-present Ecological Society of America  
 2015 Association for Women in Science  
 2014 Graduate Women in Science, Sigma Chapter

**EXTERNAL GRANT REVIEW**

Biology and Conservation, FEMS Microbiology Ecology, Microbial Ecology, Molecular Ecology, Mycologia, New Phytologist, Oikos

**SYNERGISTIC ACTIVITIES****Guest Speaker**

2017 Tropical Biology: Race to Save the Tropics course at UCI  
 2015 Undergraduate Ecology Seminar for Majors at UCI  
 2015 Research talk for CIEE study abroad students in Costa Rica

**Student Mentoring**

UCI Francisco Aguirre, Samantha Do, Stephanie Lopez, John Silva, Jerry Zapata  
 Kean Univ Ashley Casimir, Dana D'Angelo, Roberto Gómez, Katie McGee, Kate Niemiera, Radhee Sheth, Marie Torrao

**Volunteer**

2017 Women and Minorities in STEM Mentorship Program  
 2015-2016 Tech Trek lab tour and activity leader at UCI  
 2013 Estuary Awareness Day activity leader at Newport Back Bay, CA