

Yannik Elo Roell

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Education:

- 2017 Master of Science in Biology; University of Idaho, Moscow, ID.
- 2017 GIS Certificate; University of Idaho, Moscow, ID.
- 2014 Bachelor of Science in Biology, minor in Environmental Studies; Truman State University, Kirksville, MO.
- 2014 Bachelor of Science in Chemistry, Honors and ACS Certified; Truman State University, Kirksville, MO.

Research Experience:

- 2016-Present GIS Technician – GIS programmer for new biologically relevant topographic index for snail species distribution in the Galapagos.
- 2016-Present Graduate Research – Modeling species richness across the Galapagos using GIS data to enhance previous island biogeography models.
- 2015-Present Graduate Research – Collection and analysis of metabolic rate for endemic land snails of the Galapagos due to shell morphology and environment.
- 2015-2016 Field Technician – Collection of *Taricha granulosa* to study tetrodotoxin in a non-toxic population.
- 2015 Marine Conservation Internship – Conservation and education outreach on the local coral reefs on Caqalai, Fiji Islands. Global Vision International.
- 2013-2014 Research Technician – *Terrapene ornata* home range, habitat use, and movement rates in northeast Missouri. Truman State University.
- 2013-2014 Research Technician – Environmental screening and molecular analysis of cellulose degrading fungi. Truman State University.
- 2013 Research Technician – Development of general microbiology lab using *Trichoderma reesei* and *Fusarium oxysporum*. Truman State University.
- 2013 Desert Southwest Ecology Course – Reptile body size and habitat variation along a latitudinal gradient. Truman State University.
- 2012-2014 Research Technician – Development of organic chemistry lab that synthesizes and analyzes phenytoin. Truman State University.

Teaching Experience:

University of Idaho

- 2016-2017 GIS assistant for biology graduate students.
- 2016 Invited speaker for Operation Wallacea: Adaptation in the Galapagos for kids.
- 2016 Field Work Mentor for Research Experience for Undergraduate (REU) student.
- 2016 Teaching Assistant for Structure and function across the tree of life.
- 2015 Teaching Assistant for Herpetology.

Motoriki District School, Fiji

- 2015 Environmental Topics: 4th and 8th grade classes on conservation and sustainability.

Presentations:

- Roell, Y. E. 2017. An empirical test of the role of topographic complexity in the general dynamic model of oceanic island biogeography. International Conference of Evolution.
- Roell, Y. E. 2016. A complex land from birds to snails: using GIS techniques for biologist. Seminar speaker for Science After Hours at Palouse Clearwater Environmental Institute (PCEI).

- Roell, Y. E. 2016. Galapagos land snail's metabolic rate: a relationship of shell morphology and environment. International Conference of Island Biology.
- Roell, Y. E. 2016. Variation in metabolic rate due to shell morphology and environment in Galapagos snails. Evolutionary Biology in the Pacific Northwest (EVO-WIBO).
- Roell, Y. E. 2016. Relationship of metabolic rate and shell morphology and environment in Galapagos snails. Society for Integrative and Comparative Biology (SICB) annual meeting.
- Roell, Y. E. 2015. Variation in metabolic rate due to shell morphology and environment in Galapagos snails. 11th annual Student Research Exposition at University of Idaho.
- Roell, Y. E. and Long, D. S. 2014. Environmental screening and molecular analysis of cellulose producing fungi. 27th annual Student Research Conference at Truman State University.
- Roell, Y. E. 2014. Synthesis of phenytoin as a new organic lab. 27th annual Student Research Conference at Truman State University.
- Gibson, A. K., Hanna, A. R., and Roell, Y. E. 2014. Diversity, abundance, body size, and habitat preference variation in snakes and lizards along a latitudinal cline. 27th annual Student Research Conference at Truman State University.
- Kartje, M. E., Hanna, A. R., and Roell, Y. E. 2014. Home range, movement rate, and habitat use of *Terrapene ornata* at the northern edge of its range. 27th annual Student Research Conference at Truman State University.

Manuscript in Preparation:

- Roell, Y. E. and Parent, C. E. (2017). An empirical test of the role of topographic complexity in the general dynamic model of oceanic island biogeography. *Journal of Island Biogeography*.

Awards and Funding:

- Esri Student Assistantship to Attend 2017 Esri User Conference. 2017.
- Center for the Study of Evolution in Action (BEACON) Travel Grant. \$500. 2017.
- Graduate and Professional Student Association Travel Award, University of Idaho. \$700. 2017.
- Graduate Research Assistantship, University of Idaho. 2016-2017.
- Conchologists of America Grant for Malacology. \$2200. 2016.
- Biology Departmental Fellowship, University of Idaho. 2015-2016.
- Graduate and Professional Student Association Travel Award, University of Idaho. \$590. 2015.
- SICB Charlotte Mangum Student Support Program for 2016 annual SICB meeting. 2015.
- Magna cum laude*, Truman State University. 2014.
- Chemistry Department Honors, Truman State University. 2014.
- Vice President for Academic Affairs List, Truman State University. 2010-2014.
- Grants in Aid of Scholarship and Research, Truman State University \$750. 2013.
- Valedictorian, Waynesville High School, Waynesville, MO. 2010.
- Federal Pell Grant, Truman State University \$2400. 2010.
- A+ Recognition Scholarship, Truman State University \$1500. 2010.

Service:

- 2017-Present Member of GIS Users of the Palouse.
- 2017-Present Member of American Society of Naturalist (ASN).
- 2016-Present Member of American Association for the Advancement of Science (AAAS).
- 2015-Present Member of Society for Integrative and Comparative Biology (SICB).
- 2015-Present Associate Member of Sigma Xi.
- 2015 Environmental Intern in charge of Caqalai and Motoriki, Fiji composting system.
- 2013-2014 Organizer of Rot Riders, a community bike powered compost pickup.
- 2013 Intern of Truman State University's Compost Project.
- 2010-2014 Member of Environmental Campus Organization at Truman State University