

Yannik Elo Roell

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Education:

- 2017 (est.) Master of Science in Biology; University of Idaho, Moscow, ID.
- 2017 (est.) 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

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

Motoriki District School, Fiji

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

Presentations:

- Roell, Y. E. 2016. A complex land from birds to snails: using GIS techniques for biologist. Science After Hours in Moscow, Idaho.

Roell, Y. E. 2016. Galapagos land snail's metabolic rate: a relationship of shell morphology and environment. Island Biology.

Roell, Y. E. 2016. Variation in metabolic rate due to shell morphology and environment in Galapagos snails. Evo-WIBO.

Roell, Y. E. 2016. Relationship of metabolic rate and shell morphology and environment in Galapagos snails. Society of Integrated and Computational 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.

Awards and Funding:

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 Colgate contact for Motoriki District School in Fiji.

2015 Environmental Intern in charge of Caqalai and Motoriki, Fiji composting system.

2013-2014 Volunteer for Truman State University Herpetology Lab.

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.

Professional References:

Dr. Christine Parent
Biology Department, University of Idaho
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Dr. Michael Kelrick
Biology Department, Truman State University
mkelrick@truman.edu