

Kelly Lin Wuthrich  
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## EDUCATION

<b>PhD Candidate in Biology</b> Florida International University, Miami, FL, USA.	Fall 2021-Present
<b>MS Biological Sciences</b> Department of Biological Sciences, Florida International University, Miami, FL, USA.	Spring 2025
<b>BS Biological Sciences, Cum Laude, with Honors in Biological Sciences</b> Biological Sciences Department; Binghamton University. Binghamton, NY, USA.	Spring 2021
<b>Advanced Regents Diploma</b> Guilderland High School, Guilderland Center, NY, USA.	June 2017

## RESEARCH EXPERIENCE

<b>Research Assistant, Cox Lab</b> Florida International University, Biological Sciences Dept.	Fall 2021-Present
<b>Graduate Research Fellow</b> Smithsonian Tropical Research Institute, Gamboa, Panama	Summer 2022, 2023, 2024
<b>Field Research Assistant</b> Las Cruces Biological Field Station, Costa Rica	June-July 2021
<b>Research Assistant, Swierk Lab</b> Binghamton University, Biological Sciences Dept.	September 2019-May 2021
<b>Ecotoxicology Intern</b> NYS Department of Environmental Conservation	May 2019-August 2019

## PUBLICATIONS

### Publications in review/in prep 2025

- 11) Metz, M., **K. L. Wuthrich**, L. Swierk. Visual ecology of *Anolis aquaticus*:  
How color patterns serve dual functions in predator avoidance and social signaling. *In prep.*
- 10) Lopez, Y. F. T., M. Alcivar, K. A. Alujević, L. Bakewell, J. D. Curlis, A. Gonzalez, N. D. Gripshover, S. Gulati, R. Pirani, N. Ratia, D. Romero, **K. L. Wuthrich**, C. L. Cox, M. L. Logan, W. O. McMillan, S. S. Fontaine, C. E. Williams. Host and environmental drivers of gut microbiome variation in wild *Anolis* lizards. *Molecular Ecology*. *In Review.*

- 9) **Wuthrich, K. L.\***, Fontaine S. S.\*, C. Alfonso, K. Alujević, L. Bakewell, J. Keller, Y. López-Tacoaman, N. Ponce, A. Vivas, C. E. Williams, W. O. McMillan, C. L. Cox, M. L. Logan. Gut microbiome composition and diversity are associated with heat tolerance plasticity in a tropical lizard. *Ecological and Evolutionary Physiology. In Review*.  
\*Authors contributed equally to this work.

## Peer-Reviewed Articles

### 2025

- 8) Cox, C. L., **K. L. Wuthrich**, D., Aloudeh, S. J. Baker, A. G. Climo, A. F. Gross, C. W. Kizer, Z. Korff, O. Melendez, V. Y. Silva, A. M. Spans, G.R. Thilenius, I.T. Clifton, A. K. Chung. Plasticity and regional heterothermy of upper thermal tolerance in the ringneck snake. *Journal of Thermal Biology*. 135:104354. <https://doi.org/10.1016/j.jtherbio.2025.104354>
- 7) Bakewell L., C. Alfonso, K. A. Alujević, S. S. Fontaine, J. Keller, Y. F. Lopez-Tacoaman, N. E. Ponce Chilan, A. Vivas, C. E. Williams, **K. L. Wuthrich**, W. O. McMillan, M. L. Logan, C. L. Cox. Higher parasite load is associated with lower heat tolerance in a tropical lizard. *Journal of Experimental Biology*. 228(18): jeb250580. <https://doi.org/10.1242/jeb.250580>
- 6) **Wuthrich K. L.**, L. Swierk. Color-changing signals are independent of social interactions, but correlate with body condition in an *Anolis* lizard. *Biological Journal of the Linnean Society. Biological Journal of the Linnean Society*. 146(2): blaf075. <https://doi.org/10.1093/biolinnean/blaf075>
- 5) **Wuthrich K. L.**, A. K. Chung, A Rosso, W. O. McMillan, M. L. Logan, C. L. Cox. Beating the heat: a lowland tropical lizard expresses heat shock protein networks in response to acute thermal stress. *Integrative and Comparative Biology*. 65(4): 1109-1120. <https://doi.org/10.1093/icb/icaf057>

### 2024

- 4) Alujević K, L. Bakewell, I. Clifton, C. L. Cox, L. O. Frishkoff, E. J. Gangloff, G. Garcia-Costoya, M. E. Gifford, M. Glenwinkel, S. Gulati, A. Head, M. Miles, C. Pettit, C.M. Watson, **K. L. Wuthrich**, M. L. Logan. 3D printed models are an accurate, cost-effective, and reproducible tool for quantifying terrestrial thermal environments. *Journal of Thermal Biology*. 119, 103762. <https://doi.org/10.1016/j.jtherbio.2023.103762>

### 2022

- 3) **Wuthrich K. L.**, A. Nagel, L. Swierk. Rapid body color change provides lizards with facultative crypsis in the eyes of their avian predators. *The American Naturalist*. 199: 277-290. <https://doi.org/10.1086/717678>
- 2) **Wuthrich K. L.**, D. Stock, J. Talavera, B. Putman, L. Swierk. Sexual signal conspicuity is correlated with tail autotomy in an anoline lizard. *Current Zoology*. <https://doi.org/10.1093/cz/zoab064>

### 2021

#### Other Peer-Reviewed Contributions

- 1) **Wuthrich K.L.**, L Swierk. 2021. *Anolis aquaticus* (= *Norops aquaticus*) (Water Anole). Dewlap coloration. *Herpetological Review*. 52: 401-402.

## GRANTS AND FELLOWSHIPS

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<b>SICB Broadening Participation Travel Award-</b> \$500.00	January, 2026
<b>FIU UGS Dissertation Fellowship-</b> \$20,416.66	Spring-Summer, 2026
<b>FIU CASE Travel Award-</b> \$200	Winter, 2024
<b>FIU Graduate Student Travel Award-</b> \$1,500 (\$500/year)	Winter, 2023, 2024, 2025
<b>Lewis and Clark Grant-</b> \$5,000	Summer, 2024
<b>Smithsonian Tropical Research Institute Fellow</b>	Summer 2022, 2023, 2024
<b>NSF Graduate Research Fellowship <i>Honorable Mention</i></b>	Spring, 2023
<b>Graduate Research Assistantship-</b> \$120,000 (\$30,000/year)	August 2021-Fall, 2025
<b>Summer Scholars and Artists Fellowship-</b> \$3,500	Spring-Summer, 2020

## HONORS

<b>Best Lightning Talk (2<sup>nd</sup>) at FIU Biosymposium</b>	February 8 <sup>th</sup> , 2025
<b>Best Oral Presentation (2<sup>nd</sup>) at FIU Biosymposium</b>	February 3 <sup>rd</sup> , 2024
<b>Undergraduate Honors Thesis</b>	Spring 2021

## PRESENTATIONS

**Society for Integrative and Comparative Biology 2026 Conference** *Planned: January 4<sup>th</sup>, 2026*  
 "Genome-wide transcriptomic and methylomic patterns in response to acute thermal stress in a lizard"  
*Accepted in **Ecology and Evolution Best Student Presentation Huey Award** session.*

**FIU Biosymposium** February 8<sup>th</sup>, 2025  
 "Phenotypic plasticity in the circadian rhythm of heat tolerance and its basis in gene expression"

**Society for Integrative and Comparative Biology 2025 Conference** January 4<sup>th</sup>, 2025  
 "Phenotypic plasticity in the circadian rhythm of heat tolerance and its basis in gene expression"  
*Selected as a complementary presentation to Symposium: "Identifying the Physiological Mechanisms that Underlie Phenotypic Responses to Rapid Environmental Change".*

**BCI Centennial Symposium** June 19<sup>th</sup>, 2024  
 "A thermoconforming forest lizard alters heat-shock protein network expression in response to acute thermal stress", Lighting Talk.

**FIU Biosymposium** February 3<sup>rd</sup>, 2024  
 "A thermoconforming forest lizard alters heat-shock protein network expression in response to acute thermal stress", Contributed Talk.

**Society for Integrative and Comparative Biology 2024 Conference** January 3<sup>rd</sup>, 2024  
 "A thermoconforming forest lizard alters heat-shock protein network expression in response to acute thermal stress", Contributed Talk.

**FIU Biosymposium** February 11<sup>th</sup>, 2023  
 "Transient heat waves induce a rapid and reversible increase in thermal tolerance in a thermoconforming lizard", Contributed Talk.

**Society for Integrative and Comparative Biology 2023 Conference** January 3<sup>rd</sup>, 2023  
 "Transient heat waves induce a rapid and reversible increase in thermal tolerance in a thermoconforming lizard", Contributed Talk.

**Society for Integrative and Comparative Biology 2022 Conference**January 6<sup>th</sup>, 2022

"Rapid body color change provides lizards with facultative crypsis in the eyes of their avian predators",  
Contributed Talk.

**Binghamton University Research Days**April 30<sup>th</sup>, 2021

"Rapid body color change provides lizards with facultative crypsis in the eyes of their avian predators",  
Poster Presentation.

**Binghamton University Biology Graduate Student Organization Symposium**February 6<sup>th</sup>, 2021

"Rapid body color change provides lizards with facultative crypsis in the eyes of their avian predators",  
Flash Talk.

**Animal Behavior Society Annual Conference**July 28<sup>th</sup>-30<sup>th</sup>, 2020

"The Role of Rapid Body Color Change in *Anolis aquaticus* (Water Anole) Anti-predator Strategy", Oral  
Presentation.

**INVITED JOURNAL PEER REVIEW**

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*Journal of Herpetology, Behavioral Ecology and Sociobiology, Amphibia and Reptilia, Phyllomedusa,*  
*Journal of Thermal Biology, Journal of Comparative Biochemistry and Physiology Part A*

**TEACHING EXPERIENCE**

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**Graduate Teaching Assistant**

Florida International University, Biological Sciences Dept.

*BSC 2981: QBIC Journal Club, Biology I*

Fall 2025

*BSC 2922: QBIC Journal Club, Biology II*

Spring 2022

*BSC 2011L: General Biology II Laboratory*

Fall 2021

**Undergraduate Teaching Assistant**

Binghamton University, Biological Sciences Dept.

*BIOL 371: Zoology*

Spring 2020, 2021

*BIOL 355: Ecology*

Fall 2020

**Invited Guest Lecturer: BIOL 355**

November 17, 2020

- *Conservation Biology*

**Invited Guest Lecturer: BIOL 355**

November 9, 2021

- *Predation and Herbivory*

**MEDIA AND OUTREACH**

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**FIU News:** "Do you know anoles? They're having a moment"<https://news.fiu.edu/2025/female-water-anoles-step-into-the-spotlight>**Invited Lecture: Our Lady of Lourdes Academy, Miami FL**

Lectured for three AP biology classes about thermal biology, fieldwork, and women in science.

**News for Kids:** "Florida's Cold Weather Brings Falling Iguanas"

Photo credit

<https://newsforkids.net/articles/2022/02/02/floridas-cold-weather-brings-falling-iguanas/>

**Women in Ecology and Evolution Podcast: Paper in Focus**  
Season 2, Episode 1 "W.E.E. are BACK!"

## REFERENCES

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**Dr. Christian Cox**

*Associate Professor*, Florida International University  
PhD Advisor  
Email: [ccox@fiu.edu](mailto:ccox@fiu.edu)

**Dr. Heather Bracken-Grissom**

*Associate Professor*, Florida International University  
PhD Committee Member  
Email: [hbracken@fiu.edu](mailto:hbracken@fiu.edu)

**Dr. Lindsey Swierk**

*Assistant Professor*, Binghamton University, State University of New York  
Undergraduate Advisor and PhD Committee Member  
Email: [lswierk@binghamton.edu](mailto:lswierk@binghamton.edu)