

Yara A. Alshwairikh

Yale University – School of the Environment
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EDUCATION

- 2019 – 2025 **Ph.D.** Yale University, School of the Environment
Advisor: Dr. David Skelly
Dissertation: *Past, present, and future adaptation: insights from the genomes of freeze tolerant frogs*
- 2017 – 2019 **M.Sc.** in Bioscience; King Abdullah University of Science and Technology (KAUST), Red Sea Research Center
Advisor: Dr. Manuel Aranda
Thesis: *A Comparative Assessment of the Physiological Performance of Red Sea and non-Red Sea Symbiodiniaceae Strains in Acute Heat*
- 2013 – 2017 **B.S.** in Biology; University of California, Los Angeles
Departmental highest honors

PROFESSIONAL EXPERIENCE

- 2020 – current Museum assistant for Vertebrate Zoology, Yale Peabody Museum of Natural History

FELLOWSHIP AND SCHOLARSHIPS

- 2019 – 2025 Saudi Arabia Ministry of Education Graduate Fellowship, Saudi Arabia
2019 – 2020 MiSk Graduate fellowship, Saudi Arabia
2013 – 2017 KAUST Gifted Students Program scholarship, KAUST, Saudi Arabia
2013 – 2017 Saudi Arabia Ministry of Education undergraduate scholarship, Saudi Arabia

GRANT AND AWARDS

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| 2021 | Kohlberg-Donohoe Research Fellowship | (\$5,000) |
| 2021 | Yale Natural Preserve Fund | (\$10,000) |
| 2021 | Yale Institute for Biospheric Studies Fellowship | (\$7,750) |
| 2020 | Yale Institute for Biospheric Studies Pilot grant | (\$3,000) |
| 2020 | Conference travel award –Yale School of the Environment | (\$125) |

PEER-REVIEWED PUBLICATIONS

1. **Alshwairikh, Y. A.**, Kroeze, S., Olsson, J., Stephens, S., Swain, W., Waits, L., Horn, R., Narum, S., Seaborn, T. Influence of Environmental Conditions at Spawning Sites and Migration Routes on Adaptive Variation and Population Connectivity in Chinook Salmon. 2021. *Ecology & Evolution*. 11 (23), 16890-16908. doi.org/10.1002/ece3.8324

PUBLICATIONS IN REVIEW OR IN PREP (COPIES AVAILABLE UPON REQUEST)

1. **Alshwairikh, Y.A.***, Sommer, N.R.*, Andis Arietta, A.Z., Skelly, D. K., Buchkowski, R.W. Intensity-of-risk interacts with functional types to predict prey metabolic responses to predators. *In prep.*

2. Rowland, F. E.*, Prats, K. A.*, **Alshwairikh, Y. A.**, Burak, M. K., Fanton, A. C., Duguid, M. C. Towards a new stable state: Equitably assessing trainee writing productivity post-COVID-19. 2021. *Under review in BioScience.*

* These authors contributed equally

NATURAL HISTORY NOTES

1. **Alshwairikh, Y. A.**, Andis Arietta, A.Z., Jordan, S, Messer, K. RANA SYLVATICA (Wood Frog). USA: ALASKA: northwest arctic borough. Geographic Distribution Note. Herpetological Review. 52(3). 2021.

POSTER AND ORAL PRESENTATIONS

1. **Alshwairikh, Y. A.** Influence of Environmental Conditions at Spawning Sites and Migration Routes on Adaptive Variation and Population Connectivity in Chinook Salmon. International Association of Landscape Ecology (IALE) 2021, virtual conference
2. **Alshwairikh, Y. A.** Freeze Tolerance Adaptation in Wood Frogs. Montreal Eco-Evo Symposium (MEES) 2019, Québec, Canada
3. **Alshwairikh, Y. A.** A Comparative Assessment of the Physiological Performance of Red Sea and non-Red Sea Symbiodiniaceae Strains in Acute Heat. 2019. Securing a Future for Red Sea Ecosystems conference. KAUST, Thuwal, Saudi Arabia
4. **Alshwairikh, Y. A.**, Urrutia, T., Chung, D., Smith, D., Enokida, Y., Cooper, R., Toffelmier, E., Shaffer, H. B. The Indirect and Unforeseen Impacts of Human Development and Recreation on *Sceloporus occidentalis*. 2017. UCLA Ecology and Evolutionary Biology Annual Biology Research Symposium, Los Angeles, CA
5. **Alshwairikh, Y. A.**, Urrutia, T., Chung, D., Smith, D., Enokida, Y., Cooper, R., Toffelmier, E., Shaffer, H. B. The Indirect and Unforeseen Impacts of Human Development and Recreation on *Sceloporus occidentalis*. 2017. UCLA Research Poster Day, Los Angeles, CA

INVITED TALKS

1. **Alshwairikh, Y. A.** Frozen Frogs and Climate Change. 2022. The Yale Peabody Museum's 26th Annual Celebration of Dr. Martin Luther King Jr. New Haven, CT

RESEARCH AND FIELDWORK EXPERIENCE

- Graduate Research (June 2021)
 - Location: USA, Alaska, Northwest Arctic Borough (Ambler and Kobuk rivers)
 - Embarked on a 12-day expedition and floated 160 miles down the Ambler and Kobuk rivers in search of wood frogs in Arctic Alaska
- Graduate Research (July 2019 – current)
 - Location: USA, Connecticut (Yale Myers Forest, Madison, Guilford)
 - Regularly collect wood frog eggs, larvae, and metamorphic wood frogs from ponds
- Undergraduate Research (2016)
 - Location: USA, California (Stunt Ranch Reserve, Angelo Coast Range Reserve, Fort Ord, Mojave)

- Desert)
 - Surveyed lizards and amphibians and recorded mass, snout-to-vent length, number of ticks on their bodies, identified sex, and measured their body temperatures
- Undergraduate Field Assistant (2015 – 2017)
 - Location: USA, California (Carpinteria Salt Marsh Reserve)
 - Surveyed estuaries for algae species composition; collected seawater, algae, and sediment samples

SCIENCE OUTREACH AND COMMUNITY ENGAGEMENT

- Virtual Ask-A-Scientist program (February 2021)
 - Introduced my PhD research and engaged in a Q&A session with elementary and middle school students from local New Haven schools
- Yale Peabody Museum of Natural History – New Haven, CT (October-November 2019)
 - Led educational tours at the museum’s dinosaurs exhibit for K-12 students from local New Haven schools
- Mentoring middle school students – Saudi Arabia (January 2019)
 - Conducted a science demonstration session at a local middle school for girls in Thuwal, Saudi Arabia
 - Mentored a group of girls to develop their own project for a local science fair
- Saudi Research Science Institute – Saudi Arabia (June – August 2018)
 - Served as the counselor leader; led a group of nine student counselors and worked closely with management in successfully executing an immersive summer STEM research program for 40 highschool students from Saudi Arabia

SERVICE AND LEADERSHIP EXPERIENCE

- Women in Science at Yale (WISAY) board member (2021 – current)
- Doctoral student government representative - Yale school of the Environment (2020 – 2021)
- Title IX working group member – Yale School of the Environment (2019 – current)
- Yale Title IX Graduate Student Board member (2019 – 2020)
- Reviewer for the following journals:
 - Journal of Thermal Biology