

DELIA S. SHELTON

<https://www.deliashelton.com>

University of Miami
Department of Biology

1301 Memorial Dr
Coral Gables, FL 33146

dshelton@miami.edu
shelton.delia@gmail.com

EDUCATION

- 2010-2016 **Ph.D. Psychological and Brain Sciences & Evolution Ecology and Behavior, minor Cognitive Science**
Indiana University, Bloomington, IN, USA
Committee: Emília P. Martins, Jeffrey R. Alberts, Laura M. Hurley, Meredith J. West
- 2011 **Poynter Institute Teaching Research Ethics Certificate**
Indiana University, Bloomington, IN, USA
Director: Kenneth Pimple
- 2009-2010 **Alternative Teacher Certification Program**
Prairie View A&M University, Prairie View, TX, USA
Secondary Education, General Science Teacher
- 2005-2009 **Bachelor of Science (B.S.) Animal Behavior, minor Spanish**
Southwestern University, Georgetown, TX, USA
Thesis: *Stay in School or Drop Out, What is a Fish to Do?: Multiple Selection Pressures on Teleost Fish.*
Adviser: Jesse E. Purdy

POSITIONS

- 2022 - Assistant Professor, Biology Department, University of Miami
- 2020-2022 Postdoctoral Scholar – NIH NIEHS K99/R00, Oregon State University
- 2016-2019 National Science Foundation (NSF) Postdoctoral Fellow
 Leibniz Institute for Freshwater Ecology and Inland Fisheries (IGB)
 University of Windsor
 Oregon State University
- 2010-2015 National Science Foundation Predoctoral Fellow
- 2010-2015 National Science Foundation IGERT Fellow in the Dynamics of Brain-Body-Environment Systems
- 2009-2010 Science Teacher, Houston Independent School District
- 2007-2008 UNCF·MERCK Science Initiative Scholar
- 2005-2009 Dixon Scholar, Southwestern University

PUBLICATIONS

(† contributed equally; women (n = 32); underrepresented minorities (n = 21); first generation (n = 1); undergrad (n = 17); LGBTQIA (n = 4); disabled (n = 2) co-authors)

1. **Shelton D. S.**, Dinges Z. M., Khemka A., Sykes D. J., Suriyampola P.S., Shelton D.E.P., Boyd, P., Kelly, J.R., Bower, M., Amro, H., Galholt S.P., Latta, M.B., Perkins, H.L., Shaw, J.R., and Martins, E.P. (2023) A Pair of Cadmium-exposed zebrafish affect social behavior of the un-exposed majority. *Journal of Environmental Toxicology and Pharmacology* 104119-104119 <https://doi.org/10.1016/j.etap.2023.104119>
2. Suriyampola P. S., Iruri-Tucker A., Enriquez A., Blackwell G., Cáceres J., **Shelton D. S.**, and Martins E. P. (2022) Small increases in group size improve small shoal's response to water flow. *Journal of Zoology* (316) 271-281 <https://doi.org/10.1111/jzo.12952>
3. **Shelton D. S.**, Delgado M. M., Greenway E. V. G., Hobson E. A., Lackey A. C. R., Medina-García A., Reinke B. A., Trillo P. A., Wells C. P., and Horner-Devine M. C. (2021) Expanding the Landscape of Opportunity: Professional societies support early career researchers through community programming and peer coaching. *Journal of Comparative Psychology*, 135 (4), 439-449 <https://doi.org/10.1037/com0000300>
4. Chen J., Kong A., **Shelton D.**, Li J., Zhao F., Bai C., Huang K., Mo W., Chen S., Xu H., Tanguay R.L., and Dong Q. (2021) Early life stage transient aristolochic acid exposure induces behavioral hyperactivity, but not nephrotoxicity in larval zebrafish. *Aquatic Toxicology*, 238, 105916.
5. Kelly J.R., Shelton S. G., Daniels D. K. Bhat A., Mondal R., Nipple F., Amro, H., Bower M.E., Isaac G., McHaney G., Martins E. P. and **Shelton D. S** (2021). Wild zebrafish sentinels: biological monitoring of pollution using behavior and morphology. *Toxics*, 9(7), p.165.
6. Schell C. J., Guy C., **Shelton D. S.**, Campbell-Staton S., Sealey B. A., Lee D. N., Harris, N. C. (2020) Recreating Wakanda by promoting Black excellence in ecology and evolution., *Nature Ecology and Evolution* 4(10), 1285-1287. <https://doi.org/10.1038/s41559-020-1266-7>
 - 3rd most viewed article in *Nature* for articles of the same age
7. **Shelton D. S.**, Shelton S. G., Daniels D. K., Bhat A., Raja M., Krause J., Higgs D., Tanguay R.L. and Martins E.P. (2020) Collective behavior of zebrafish in the wild, *Zebrafish*, doi.org/10.1089/zeb.2019.1851
 - Featured in *Nature's Lab Animal*: <https://doi.org/10.1038/s41684-020-00665-z>
8. **Shelton D. S.** and Alberts J. R. (2018) Development of behavioral responses to thermal challenges, *Developmental Psychobiology*, 54(7), 766. 10.1002/dev.21588
 - Wiley #top20article award for a top downloaded article in recent publication history.

9. **Shelton D. S.**, Meyer P. M., Ocasio K. M. (2017) Environmental structure and energetic consequences in groups of young mice, *Physiology and Behavior*, 177, 155-160.
10. **Shelton D. S.** and Martins, E. P. (2017). Behavioral variation, adaptation, and evolution. In: Call, J., Burkhardt, G., Pepperberg, I., Snowdon C., and Zentall T. (Ed.s), APA Handbook of Comparative Psychology: Basic concepts, methods, neural substrate, and behavior, Vol. 1 (pp. 219-236). Washington, DC, US: American Psychological Association.
11. Suriyampola P. S., Sykes D. J., Khemka A., **Shelton D. S.**, Bhat A., Martins E P. (2016). Social plasticity in complex environments: effects of water flow on social behavior of zebrafish. *Behavioral Ecology and Sociobiology*, 27(5), 1-7
12. **Shelton D. S.** (2016). A review of primer effects by murine pheromone signaling: pheromonal influences on reproductive conditions. *Journal of Ethology*, 34, 355.
13. Suriyampola P.S., **Shelton, D. S.**, Shukla R., Roy T., Bhat A. and Martins E. P. (2016). Zebrafish social behavior in the wild. *Zebrafish*, 13(1), 1-8.
14. **Shelton D. S.** (2015). CISAB ambassadors in the student conference exchange program. *Center for the Integrative Study of Animal Behavior Bulletin*, 17(1), 11.
15. **Shelton D. S.**, Price B. C., Ocasio K. M., and Martins E. P. (2015) Social and physical environment influences shoal cohesion, but not coordination in zebrafish (*Danio rerio*). *Journal of Comparative Psychology*, 129, 72-77.
16. **Shelton D.S.**, Atagi E., Keene J. R., and Ross T. (2015). Netlogo Boomshakalaka model. Indiana University, Bloomington, IN.
http://ccl.northwestern.edu/netlogo/models/community/Boomshakalaka_shelton-atagi-keene-ross
17. **Shelton D. S.** 2014. Locating and securing funding. In: Smith. M.J.T., Browne, M.M, Johnson, K, & Peck, W. (Ed.s), GPS for Graduate School: Students Share their Stories. (pp. 1-13) Purdue University Press: West Lafayette, IN.
18. **Shelton D.S.** (2013). Shared goals. *Bulletin of the Museum of Zoology*, 3(1), 6.
19. Price B. C., **Shelton, D. S.**, and Martins, E. P. (2013). Group-size-dependent cohesion of zebrafish (*Danio rerio*) in the presence of disturbances. *Integrative and Comparative Biology* 53:E353.
20. **Shelton D.S.** and Alberts J.R. (2013). Ontogenesis of group regulatory behavior in mouse litters. *Integrative and Comparative Biology*, 53:E370.
21. †Dillon G. M, †**Shelton D.**, McKinney A. P., Caniga M., Marcus J. N., Ferguson M. T., Kornecook T.J., and Dodart, J.C., (2009). Prefrontal cortex lesions and scopolamine impair

attention performance of C57BL/6 mice in a novel 2-choice visual discrimination task, *Behavioral Brain Research*, 204, 67-76.

22. Dzieweczynski T. L., Bessler A. M., **Shelton D. S.**, and Rowland W. J., (2006). Effect of a Dummy Audience on Male–Male Interactions in Siamese fighting fish, *Betta splendens*. *Ethology*, 112(2), 127-136

MANUSCRIPTS IN PREPARATION:

1. **Shelton D. S.**, Suriyampola P.S., and Martins, E.P. A few contaminated individuals alter boldness and landmark use, but not cohesion and activity. (*in review*)
2. **Shelton D. S.**, Myers M. A., Kim N., Cahela J., and Alberts J. R. Temperature-dependent spatial and social centrality. (*winter 2024 submission*)
3. Noor MD. I., Qui, H., Marriner J., Niemirski M., Balabuch Dal Bo A.C., Flores Ruiz C., Covington M., **Shelton D.S.** Transgenerational effects of chronic dietary cadmium exposure on vision, behavior, and reproductive success of zebrafish. (*winter 2024 submission*)
4. Duffy C.R., Otten M., **Shelton D.S.**, Lauderdale J.D. Decreased GABA levels due to a *gad1b* null mutation in zebrafish decreases the visually evoked Optomotor Response. (*winter 2024 submission*)
5. Covington, M., Gordon, J.E., Janssens, P.A., Walker, M., and **Shelton, D.S.** Strain differences is optomotor responses. (*spring 2024 submission*)
6. Covington, M., Raja, M. and **Shelton D. S.** Sensory tradeoffs across wild zebrafish populations. (*summer 2024 submission*).
7. Lackey A. C. R., Delgado M. M., Greenway E. V. G., Hobson E. A., Medina-García A., Reinke B. A., Trillo P. A., Wells C. P. and **Shelton D. S.** Peer mentoring circle enhance belonging among natural science graduate students (*summer 2024 submission*)
8. Igwe, A.N., Callwood, K.A., **Shelton, D.S.** Green infrastructure to mitigate the contamination legacies on behavior. *Invited special issue Phil. Tras. R. Soc.* (*fall 2024 submission*)

HONORS

2017 Animal Behavior Society Allee Competition Semi-finalist
2014 Be More Engaged Award, City of Bloomington, IN USA
2012 ExxonMobil Bernard Harris Summer Science Camp Alumni Award
2009 Southwestern University Animal Behavior Student of the Year
2005-2009 Paideia Scholar

GRANTS (\$1,876,243)*

EXTERNAL AWARDS (\$1,589,676)

*all amounts are in USD

External research support

Ongoing Research Support

Animal Behavior Society D. Shelton (co-PI) 2020 - 2023
Building peer mentoring communities for Black and Indigenous graduate students to help weave the future of animal behavior. (\$18,000)

NIH R00 Pathway to Independence D. Shelton (PI) 2020 - 2025

The goal of this proposal is to study cadmium-induced behavioral disorders across generations. (\$998,973)

NIH NIEHS D. Shelton (PI) 2023 - 2025
Diversity supplement to support Myles Covington's training in environmental health by studying how selenium might mitigate the effects of cadmium. (\$165,787)

Internal research support

UM Diversity Mini-Grant D. Shelton (Co-PI) 2023
The goal of this proposal is to create writing circles and workshop for junior faculty of color at University of Miami (\$5,000)

UM Global Black Studies D. Shelton (PI) 2023
Research support for undergraduate student, Makeda Walker. (\$5,000).

UM Toppel Internship Fund D. Shelton (PI) 2023
Research support for undergraduate student, Ethan Bentley. (\$3,000).

Pending Research Support

Animal Behavior Society D. Shelton (co-PI) 2024
Building peer mentoring communities for Black and Indigenous graduate students to help weave the future of animal behavior. (\$7,000)

Submitted, but not Funded Support

AHA D. Shelton (PI) 10/2023
Epigenetic therapy for cadmium-induced cardiovascular remodeling and inflammation. (\$750,000)

NSF D. Shelton (PI) 07/2023
Mapping the Behavioral and Environmental Drivers of Human Exposure to Harmful Algal Blooms to Safeguard Human Health (\$500,000)

EPA D. Shelton (PI) 07/2023
Swarm the Storm: Transforming stormwater with zebrafish swarms and phytoremediation. The goal of this project is to understand the contributions of redlining to disparities in stormwater quality and behavioral health. (\$650,000)

ABS D. Shelton (PI) 03/2023
Charles H. Turner program award to support travel and attendance of the Animal Behavior Society meeting for an undergraduate student.

DoD D. Shelton (Co-PI) 12/2022
The goal of the project is to examine the mechanism by which cadmium might accelerate Alzheimer's Disease pathology. (\$500,000)

EPA	D. Shelton (PI)	08/2022
Swarm the Storm: Transforming stormwater with zebrafish swarms and phytoremediation. The goal of this project is to understand the contributions of redlining to disparities in stormwater quality and behavioral health. (\$400,000)		
Beckman	D. Shelton (Co-PI)	05/2022
The goal of this proposal is to develop mentoring teams between undergraduates and department of biology faculty.		
Chan Zuckerberg Institute	D. Shelton (PI)	05/2022
The goal of this proposal is to study sociodemographic disparities in water quality using zebrafish in 7 US cities. (\$1,150,000)		
Carnegie Foundation	D. Shelton (PI)	10/2021
The goal of this proposal was to study disparities in home water quality using zebrafish sentinels. (\$200,000)		
National Academy of Sciences	D. Shelton (PI)	09/2018
Christine Mirzayan Science and Technology Policy Fellowship The goal of the fellowship is to gain experience in science policy. (\$9,000)		
NOAA Sea Grant		04/2017
S. Walker (PI), D. Noakes (Co-PI), T. Quinn (Co-PI), A. Dittman (Co-PI) Development of methods to reduce straying by hatchery salmon in order to maintain sustainable hatchery production for commercial, tribal and recreational fisheries in the Northwest United States.		
Howard Hughes Medical Institutes	D. Shelton (PI)	02/2017
Hannah H. Gray Fellows Program The goal of this fellowship is to receive training in the development of collective behavior. (\$750,000)		
National Science Foundation	D. Shelton (PI)	12/2015
National Institute for Mathematical and Biological Synthesis The goal of this fellowship is to receive training in the development in computational modeling of disease spread via social networks. (\$138,000)		
<u>Completed Research Support</u>		
NSF Innovation-Corps	D. Shelton (PI)	12/01/18- 05/31/2020
The goal of this proposal is to determine the commercial market for Visioglow, a technology that assesses multiple aspects of vision. (\$50,000)		
1611616 National Science Foundation	D. Shelton (PI)	09/01/16-08/31/2019
Postdoctoral Fellowship		

The goal of this proposal was to document population-level differences in social behavior and test for sensory trade-offs in wild zebrafish found in India. (\$216,000)

0851607 National Science Foundation E. Martins (PI) 08/01/2015-07/31/16
Graduate Research Assistant
The goal of this proposal was to develop a public service guide for sharing and combining behavioral data. (\$23,000)

0903495 National Science Foundation R. Beer (PI) 06/01/15-05/31/2016
Doctoral Dissertation Improvement Grant
The goal of the proposal was to develop multisensory assays to behaviorally phenotype zebrafish. (\$4,758)

0903495 National Science Foundation R. Beer (PI) 08/01/10-07/31/15
Integrative Graduate Education and Research Traineeship
The goal of this fellowship was to support graduate studies and training in dynamics of brain–body–environment systems in behavior and cognition. (\$64,000)

National Science Foundation D. Shelton (PI) 08/01/10-07/31/15
Graduate Research Fellowship
The goal of this fellowship was to support graduate training in identifying simple environmental mechanisms that affect complex behavior in zebrafish and house mice. (\$96,000)

Houston Independent School District D. Shelton (PI) 10/30/09-05/31/10
GEAR UP Innovation Grant
The goal of this grant was to enrich the educational environment of Title I high school students through the deconstruction and construction of robotic sharks. (\$1,000)

United Negro College Fund • Merck D. Shelton (PI) 05/01/07 – 08/01/08
The goal of this fellowship was to support undergraduate training in biomedical research at Merck Research Laboratories in neuroscience, Alzheimer’s and drug discovery. (\$25,000)

External scholastic support

2022 NSF SEEP Travel Award
2015 NSF Travel Award - \$700
2013 Society for Integrative and Comparative Biology Broadening Participation- \$500
2013 Charlotte Mangum Housing Award
2012 National Institutes of Health (National Institute for Child Health and Development) and Sackler Institute - \$450
2008 Animal Behavior Society Charles H. Turner Travel Award
2005-2006 Animal Behavior Society Charles H. Turner Travel Award

FELLOWSHIP SUPPLEMENTS

2015 NSF IGERT Travel Award - \$2930
2015 NSF IGERT Travel Award - \$2425

2014 NSF IGERT Travel Award - \$1629

FELLOWSHIP SUPPLEMENTS

2013 NSF IGERT Travel Award - \$2953

2012 NSF IGERT Travel Award - \$580

INTERNAL AWARDS (\$281,567)

Indiana University D. Shelton (PI) 08/01/16 – 05/31/17
Diversity Dissertation Year Fellowship (\$25,000) I declined.

Indiana University D. Shelton (PI) 08/01/10-05/31/2015
Psychological and Brain Sciences, Heller Fellowship
Summer support for graduate studies on group regulatory behavior in mouse huddles. (\$4,067)

Indiana University D. Shelton (PI) 08/01/10-05/31/2015
Graduate Scholars Fellowship (\$125,000) I declined.

Southwestern University D. Shelton (Co-PI with 2 undergrads) 08/01/05 – 05/01/09
King Creativity Fund
Develop a robotic shark to study antipredatory associative learning in schools of fish. (\$2,140)

Southwestern University D. Shelton (Co-PI with 6 undergrads) 08/01/05 – 05/01/09
Paideia Scholar Research Grant
Civic engagement to break down barriers between the local (Georgetown, TX) and university (Southwestern University) community, and develop a monument dedicated to the history of war and peace. (\$1,000)

Southwestern University D. Shelton (PI) 08/01/05 – 05/01/09
Bishop Ernest T. Dixon Scholarship
Full scholarship to support undergraduate studies. (\$120,000)

Internal scholastic support

2015 Center for Integrative Study for Animal Behavior Travel Award, IU - \$400

2015 Provost Travel Award, IU - \$800

2013 Provost Travel Award, IU - \$700

2013 Biology Department Travel Award, IU - \$250

2012 Indiana University Women in Science Program, IU - \$550

2012 Animal Behavior Lab Travel Award, IU - \$400

2012 Center for Integrative Study for Animal Behavior Travel Award, IU - \$360

2011 Animal Behavior Laboratory Travel Grant, IU - \$500

2010 Animal Behavior Laboratory Travel Grant, IU - \$400

INTELLECTUAL PROPERTY

- Invention Id: DRAFT/250/18- Sole inventor, submitted institutional disclosure to Oregon State University. Technology served as a platform for applying to NSF I-Corps.

TEACHING EXPERIENCE

Current Courses

Animal Behavior (BIL 441, 36 student/class; annually in Fall)
 Projects in Biology (BIL 495–497; Fall and Spring)

Guest Lectures

- 2021
 - Guest Lecture, Social Behavior
Undergraduate, Animal Behavior course
State University of New York, December 1, 2021
 - Guest Lecture, Animal Behavior,
Undergraduate, Animal Behavior course, ~35 students
University of Tennessee Chattanooga, April 5, 2021
- 2020
 - Guest Lecture, Animal Behavior Journey
Charles H. Tuner Program, Animal Behavior Society ~10 students
Animal Behavior Society Virtual meeting. July 27, 2020
 - Guest Lecture, Animal Behavior, Hidden Figures and Citation Practices
Undergraduate, Animal Behavior course, November 12, 2020 ~15 students
Southwestern University
- 2018
 - Guest Lecture, Social Networks
Undergraduate Animal Behavior course, April 5, 2018. ~50 students.
University of Tennessee - Knoxville
- 2013
 - Guest Lecture, Social Behavior: Group Structure and Cooperation, in
undergraduate/graduate Animal Behavior course, April 9, 2013. ~50 students.
Indiana University-Bloomington
- 2011
 - Lecturer, Indiana University-Bloomington *BioEthics*:
Center for Integrative Study of Behavior
~ 10 undergraduates and 2 primary school teachers
- 2009- 2010
 - Science Teacher at Title 1 High School in
Houston Independent School District
 - Science Department: *Integrated Physics and Chemistry* >200 high school students
Supervisor: Carolyn Brown, M.A.

ADDITIONAL EXPERIENCE

- 2009
 - University of Ghana: Oceanography and Fisheries**
Legon, Ghana (West Africa)
Research Assistant –Academic School Term
Fisheries research • aquatic sampling • coastal surveying

- 2008 **INBIO Parque**
Heredia, Costa Rica (Central America)
 Research Assistant –Academic School Term
 Managed butterfly colony • Herpetological husbandry
- 2007, 2008 **Merck Research Laboratories**
Boston, MA, USA
 Research Associate- Summer Intern
 Drug discovery • Operant conditioning • Immunohistochemistry • Alzheimer’s models • High throughput behavioral phenotyping
- 2005-2008 **Aquatic Animal Laboratory- Southwestern University**
Georgetown, TX, USA
 Research Assistant –Academic School Term
 Classical conditioning • Cephalopod husbandry • Animatronics • Pharmacology • Saltwater system management
- 2005, 2006 **Alliance of Graduate Education and the Professoriate (AGEP)**
Rice University, Houston, TX, USA
 Research Associate- Summer Intern
 Carnivore enrichment • Zoo • Stereotypical Behavior • Public outreach
- 2004 **NSF REU- Center for Integrative Study of Animal Behavior (C.I.S.A.B.)**
Indiana University, Bloomington, IN, USA
 Research Associate-Summer Intern
 Audience effect • tropical fish • video-play back

MENTORING

Mentored 3 PhD student, 2 master’s of science students, 1 post-bac, 50 ^Uundergrads and 7 high school students in full-time summer research programs or multi-week academic year internships. The students were from diverse backgrounds, 38 ♀ women, 30 🧑🏫 people of color, 15 🎓 first generation college students, 4 🏳️‍🌈 LGBTQIA students, 🌈 one neuro-diverse student, and one 🏆 veteran. 7 undergraduate co-authors on refereed articles, and 29 students have given presentations at conferences.

PHD STUDENTS

- 2022- • MD Imran Noor – PhD student, University of Miami
- 2022- • Jessica Okutsu – PhD student, University of Miami
- 2019-2021 • Jeff Kelly – PhD student, University of Tennessee-Knoxville

MASTER’S STUDENTS

- 2018-2020 • Molly Arnold - MS in Forestry, Oregon State University
- 2017-2018 • Samuel Swanson – MS in Water Resource Engineering, Oregon State University

POSTBAC STUDENTS

- Myles Covington – NIH NIEHS Scholar, University of Miami

UNDERGRADUATES

- 2023- • Zach Bulter - research assistant, University of Miami
- 2023- • Madison Deperalto - research assistant, University of Miami
- 2023-2024 • Jenna Robinson - research assistant, University of Miami
- 2023 • Beck Koop – research assistant, University of Miami
- Isabela Fernandez – research assistant visiting from Florida State University
- 2023 • Teilil Garcia-Gonzalez – research assistant, University of Miami
- 2023 • Claudia Flores Ruiz – Miami Dade Scholar, research assistant
- 2023 • Kennedy Smith – NIH FYER scholar visiting from Howard University
- 2023 • Jenny Parral – NSF DUE HSI scholar visiting from NEIU
- 2023 • Jackson Mariner - research assistant, University of Miami
- 2023-2024 • Hui Qiu - research assistant, University of Miami
- 2023 - • Michael Niemirski - research assistant, University of Miami
- Ethan Bentley - research assistant, University of Miami, Toppel Summer Internship fund
- 2023-2024 • Makeda Walker - research assistant, University of Miami, Global Black Studies fellows, Honor’s thesis
- 2022-2024 • Jalen Gordon - research assistant, University of Miami, NCAA Athletic Coast Conference (ACC) rising star award, and the UM NCAA ACC service award
- 2022-2023 • Patrick Janssen - research assistant, University of Miami, interned at University of Washington
- 2022 • Tatiana Mailli - research assistant, University of Miami, Environmental Justice chair of the NAACP
- 2022 • Jeremy Saintyl- research assistant, University of Miami
- 2020-2022 • Vincent Johnson - research assistant, Oregon State University
- 2020 • Cindy Zurita Cruz – SACNAS president, STEM leaders, research assistant, Oregon State University
- 2020 • Juliana Garcia - research assistant, Oregon State University
- 2020 • Summer Estes - research assistant, Oregon State University
- 2020-2021 • Gillian McHaney- research assistant, University of Tennessee - Knoxville
- 2020-2021 • Gabriel Isaac- research assistant, University of Tennessee - Knoxville
- 2019-2020 • Arianna Sanchez - STEM Leaders research assistant, Oregon State University, applying medical school

- 2019-2021 • Myra Bower - research assistants, University of Tennessee – Knoxville, now PhD student at UC-Boulder, submitted NSF GRFP
- 2019-2020 • Halima Amro - research assistants, University of Tennessee - Knoxville
- 2018 • Colbe Moe – NSF I-Corps Team member, Oregon State University.
- 2018 • Fahren Nipple- Society of Toxicology intern, Oregon State University
- 2018 • Hnin Oo “May” Wai, SURF intern, and NSF I-Corps team member, Oregon State University
- 2017 • Sierra Shelton – India field research assistant, Blinn College
- 2017 • Ploypenmas Sonya Boyd – PROMISE intern, Oregon State University
- 2015-2016 • Mary Myers- research assistant, graduate student at Ball State University
- 2015-2016 • Nahrie Kim- research assistant, graduate student at Seoul National University
- 2015 • Xenia Davis- NIH MARC Scholar, won best poster presentation at Annual Biomedical Conference for Minority Students for her summer research project through the NSF REU
- 2015 • Samantha Schwindel- research assistant, Hutton Honors Scholar, Indiana; University, graduate student at University of Louisville
- 2015 • Stephanie McQueen- research assistant, Indiana University, veterinary assistant
- 2014-2015 • Anuj Khemka- research assistant, Indiana University
- 2014 • Zoe Austin- NSF REU; OK Louis Stokes Alliance for minority participation scholar, graduate student, Indiana University
- 2014 • Jason Cahela- NIH MARC scholar, respiratory therapist at Queens Medical Center, Hawaii, USA
- 2014 • Meital Shacaf- IFLE scholar, Indiana University
- 2013-2014 • Erik Wegner-Clemens- veterinary student
- 2014 • Karen Ocasio- NSF REU, Jr., Microbiologists in industry
- 2012-2013 • Devin Jacobs- 1st place poster at Animal Behavior Conference, law school
- 2012-2013 • Brittany Price- NSF REU- conference presentation, Broadening Participation Travel Award, Charlotte Mangum Award, CISAB travel award, honor’s thesis at North Carolina State University, post-bac at Wright State University, PhD program University of North Carolina
- 2012 • Patrick Sweeny- military veteran
- 2012 • Gray Stephenson- summer undergraduate research assistant, biology major, founder of a green start-up company
- 2012 • Dakota Scheu- lawyer J.D., civil law, 2nd Place Poster in Animal Behavior Seminar

- 2011 • Lauren Green- Professional Experience in Radio Communication
- 2011 • Ticia Watson- NSF REU, Master's in Public Health Florida International

HIGH SCHOOL STUDENTS

- 2023 • Ana Balabuch Dal Bo – MAST Academy, Young Scholars Program University of Miami
- 2023 • Thomas Green – MAST Academy, Young Scholars Program University of Miami
- 2017 • Dolores Shelton – Brenham High School, Oregon State University, PROMISE intern.
- 2013 • Roger Morris- Bloomington North high school research assistant, co-founder and COO of Zoro Card
- 2013 • Andy Morris – Bloomington North high school, research assistant
- 2013 • Hannah Fox-Teague – Holland Summer Scholar, high school research assistant
- 2011-2012 • Moonju Lee – high school student, pursuing B.S. in Neuroscience at Rice University

GRADUATE STUDENT DISSERTATION COMMITTEE SERVICE

- Millie Rogers (2022 - current)

PROFESSIONAL SERVICE AND OUTREACH

- 2023 • Member-At-Large #1, elected position, Animal Behavior Society
- Co-Chair SIGNAL Workshop, Animal Behavior Society
- United Nations Development Program – Armenia, Behavior Insights Associate, Sustainable Development Goals Innovation Lab delegate host.
- Co-advisor to UM Tri-Beta, national biology honor society, 175 student members
- Co-organizer for Junior Faculty of Color Writing Circle and Retreat, University of Miami
- Faculty advisor, BioGrad Symposium, Biology Department University of Miami
- BioReach lab contributor with ~ 100 students impacted
- Organizer, Distinguished Black Scientist Symposium, Biology Department, University of Miami
- Research and Creative Innovation Forum Judge

2022

- Co-advisor to UM Tri-Beta, national biology honor society, 175 student members
- Nuit des Idees (Night of Ideas) an international event sponsored by the French Consulate of Miami and FilmGate
- United Nations Permanent Forum of People of African Descent panel to help cities achieve UN Sustainable Development Goals for Black residents
- Co-Chair WFAB Grad Workshop, Animal Behavior Society
- Co-organized WFAB Early Career Scientists Reunion, Animal Behavior Society
- Diversity committee member, Animal Behavior Society
- Member-At-Large #2, elected position, Animal Behavior Society
- Moderator of the Neuroethology session at the Animal Behavior Society meeting
- BioGrad Symposium Judge
- Research and Creative Innovation Forum Judge

2021

- Inclusive Mentoring Workshop, Animal Behavior Society
- Member-At-Large #3, elected position, Animal Behavior Society

2020

- Animal Behavior Society 58th Annual Conference. #BlackInAnimalBehavior. Twitter campaign highlights Black Animal Behaviorists. I co-organized the campaign and created the flyers.

2016-2019

- Animal Behavior Society Diversity committee member. Coordinator of Charles H. Turner Program

2018

- SACNAS outreach volunteer to increase K-12 engagement in STEM

2018

- TEAMTox toxicology club volunteer to increase undergraduate engagement in STEM

2017, 2018

- Enhance community and youth enthusiasm for zebrafish through talks in villages and schools in India.

2017

- Oregon Department of Fish and Wildlife, Free Fishing Day liaison, and translator

2017, 2018

- Student presentation judge, Oregon Chapter of American Fisheries

- 2011-2016 • Volunteer with Bethel Homework Help, contributing to the efforts that were Community and Family Resources Department for encouraging literacy.
- 2011-2013 • Indiana University, Mechanisms of Behavior (Graduate Student Representative)
- Student Member, CISAB Animal Behavior conference planning committee.
- 2010-2016 • Chair of program committee (2013-2014), peer reviewing and compiling abstracts.

REVIEWER *number of times requested to review in ()

- Reviewer for the National Science Foundation- Division of Integrative Organismal Systems (2), Early Career Reviewer National Institutes of Health (1), Animal Behavior Society Student Research Grants (2), Animal Behavior Society Travel Awards (1), Animal Behavior Society Caregiver Award (1), University of Miami, Chemistry Department Graduate Student Fellowships (1)
- Agriculture (1), Animal (6), Animal Behavior (2), Aquatic Biology (3), Behavioral Ecology (3), Behavioral Ecology Sociobiology (1), Biology (7), Comparative Biochemistry and Physiology, Part C (1), Entropy (1), Environment (1), Environmental Biology of Fishes (3), Frontiers in Ecology and Evolution (2), International Journal of Environmental Research and Public Health (1), Journal of Comparative Psychology (2), Journal of Marine Science and Engineering (1), Marine Ecology Progress Series (1), Nature Scientific Reports (1), Neuroscience and Biobehavioral reviews (2), PeerJ (2), PLOS ONE (7), Royal Society Open Science (7), Symmetry (2), NPR A Moment in Science (1) Trends in Ecology and Evolution (1).

PROFESSIONAL SOCIETIES AND WORKSHOPS

(A) Recent/Current Professional Societies and Organizations:

- Animal Behavior Society (17 yrs)
- American Physiological Society (1yr)
- Black Women in Ecology Evolution and Marine Sciences (2 yrs)
- Ecological and Evolutionary Ethology of Fishes (1 yr)
- Abess Center for Ecosystem Science and Policy Affiliate (1yr)
- Program in Neuroscience, Miller School of Medicine (1yr)
- Society for Environmental Toxicology and Chemistry (1yr)
- Weaving the Future of Animal Behavior (3 yrs)

(B) Workshops Attended: UM Promotion and Tenure (2022) UM NSF Career Awards (2022) Platform for Excellence in Teaching and Learning (2022) Inclusive Mentoring Workshop (2021) NIH Compass University of Washington- St. Louis (2023).

MEDIA

- The Community of Scholars. 1,000 inspiring Black scientists in America. *Cell Mentor* (12/28/2020) <http://crosstalk.cell.com/blog/1000-inspiring-black-scientists-in-america>
- Neff, E.P. Where the wild zebrafish are. *Lab Animal* 49, 305–309 (2020). <https://doi.org/10.1038/s41684-020-00665-z>
- Qaiser, F. Neuroscience, astronomy, animal behavior, and more: Black scientists are showcasing their research on social media, *Massive Science* (8/01/2020). <https://massivesci.com/notes/black-in-neuro-astro-chem-botanists-the-ivory-excellence/>
- Thomas, L. Ecologists across the country say academy must root out racism, recognize Black scholar excellence (7/27/2020). <https://news.umich.edu/ecologists-across-the-country-say-academy-must-root-out-racism-recognize-black-scholar-excellence/>
- Todd, Z. Four Diversity Initiatives in Animal Behaviour, Dog Training, & Veterinary Medicine, *Companion Animal Psychology* (7/24/2020). <https://www.companionanimalpsychology.com/2020/07/four-diversity-initiatives-in-animal.html>
- Hu, J. Online GRE test heightens equity concerns, *Science*. (06/26/2020) https://www.sciencemagazinedigital.org/sciencemagazine/26_june_2020/
- Blog post Inspiration Dissemination (4/9/2019) <https://podcasts.apple.com/us/podcast/delia-s-shelton-zebrafish-sentinels-studying-effects/id1337404264?i=1000434706378>
- Radio show at KBVR Corvallis 88.7 FM (4/7/2019) <https://podcasts.apple.com/us/podcast/delia-s-shelton-zebrafish-sentinels-studying-effects/id1337404264?i=1000434706378>
- Evans Ogden, L. For Minorities in Science, Building Communities Matter. *Undark Magazine* (11/06/2017) <https://undark.org/article/mentorship-programs-science-technology/>
- National AGEP News - GPS for Graduate School: Students Share their Stories (1/26/2015) <http://blogs.mtu.edu/agep/2015/01/26/gps-for-graduate-school-students-share-their-stories/>
- CISAB - segment in Indiana University REU program in Animal Behavior (7/17/2013) <http://www.indiana.edu/~animal/reu/REU.php>
- Southwestern University Newsroom - Spanish Department Alumni Stories (9/24/2013) <http://www.southwestern.edu/live/news/8504-delia-shelton-class-of-2009>
- Southwestern University - King Creativity Scholars: I am a real shark! (4/19/2007) <http://www.southwestern.edu/live/news/2510-i-am-a-real-shark/academics/kcf/news.php>

PRESENTATIONS

INVITED TALKS

- 2024
- [Skin or Scales, feet or fin: The environment affects all within.](#) Presidential Symposium, Animal Behavior Society, June 2024

- Swimming into view: solutions to pollutions and career opportunities. Arizona State University, Tempe Arizona, April 2024
 - Transgenerational effects of cadmium exposure and potential therapies. Biology Department, University of Minnesota, Minneapolis-St. Paul, MN, February 2024
 - Cadmium accrued through water and food affects the group's mood and brood. Biology Department, Central Michigan University, February 2024
- 2023
- Junior faculty of color writing circles and retreat. Diversity Mini-Grant Symposium, University of Miami, November 2023
 - Intergenerational effects of a contaminant on zebrafish behavior and morphology. Presidential Symposium, Animal Behavior Society, July 2023
 - Animal behavior journey. Charles H. Turner Program workshop, Animal Behavior Society, Portland OR., July 2023
 - Swimming in and out of view: Cadmium affects zebrafish behavior and vision. Asa Gray Seminar, Utica University, March 2023
 - Contaminants disrupt visually guided behavior across generations, Chico State University, February 2023
- 2022
- Wild Zebrafish Behavior. NSF ACE, NorthEastern Illinois University. November 2022
 - Cadmium has direct and indirect effects on behavior. NIH MARC, NorthEastern Illinois University. November 2022
 - Direct and indirect effects of legacy pollutants on social behavior. Kennesaw State University. November 2022
 - Cadmium disrupts visually guided behavior and neural activity. American Physiological Society Comparative Section. October 2022
 - Environmental determinants of social behavior in wild and domesticated animals. Warnell School of Forestry and Natural Resources, University of Georgia. September 2022
 - Women in Marine Science. Florida Atlantic University. April 2022
- 2021
- Trouble in bubbles: cadmium affects zebrafish behavior. Syracuse University. November 2021
 - Down with the sickness: The behavior of infected animals. Invited Symposium. Animal Behavior Society. August 2021
 - Zebrafish sentinels: using zebrafish as biological monitors. Ecological and Evolutionary Ethology of Fishes. July 2021
 - Growth networks and mentoring. Community College Field Biology Alliance, University of California Los Angeles. July 2021
 - Cadmium affects zebrafish social behavior. HHMI Leading Edge Symposium. June 2021
 - Strategies for Success. Professional development for Animal Behavior Graduate Students. Animal Behavior Society Workshop. May 2021
 - Pollutant bubbles cause trouble: direct and indirect effects of cadmium on zebrafish social behavior. University of Washington. May 2021

- Environmental determinants of social behavior in wild and hatchery zebrafish. Bilkent University. April 2021
 - Environmental features influence social behavior in wild and domestic zebrafish. Department of Biology, Indiana University. April 2021
 - Zebrafish sentinels and JEDI efforts in STEM. Front Range Student Ecology Symposium, Colorado State University, 3-5 March 2021
- 2020
- Power of the Pen: writing to NSF to impact Diversity and Inclusion Policy. EEBORG, Indiana University. 5 November 2020
 - BioSci Southwest Symposium Keynote Panel. Arizona State University, 30 Oct 2020
 - Wild tales of finned kin, the environment affects all within. Frontiers in Social Evolution (FINE) seminar series, 20 Oct 2020. 1 of 2 rising stars selected for the series.
 - Activating Wakanda with JEDIs. Ecolunch, Biology Department, Indiana University. 5 Oct 2020
 - Into the wild and back again, the environment affects fins and kin. Center for Behavior and Evolution, New Castle University, UK, 7 July 2020
- 2019
- Visioglow: sustainably growing fish faster. Startup Pitch to Oregon State University Board of Trustees, May, 2019
 - A story of two kin: social lives of Hatchery and Wild zebrafish. Fisheries and Wildlife Department, Oregon State University, Corvallis, OR, USA. February 18, 2019
- 2018
- Collective behavior in wild and domestic zebrafish. RIKEN Center for Brain Science, Tōkyō, Japan. October 31, 2018.
 - Physical environments alter collective behavior. Research Faculty of Agriculture seminar, Hokkaido University, Sapporo, Japan. October 24, 2018
 - Social lives of domestic and wild kin, zebrafish. Keynote address at the International Symposium – Research Developments in Zebrafish, Nanomaterial & Actinobacteria, Padmavani College, Salem, Tamil Nadu, India. February 8, 2018
 - Into the wild and back again: social behavior of zebrafish and toxic kin. Biotechnology seminar, Anna University, Tamil Nadu, India. February 7, 2018
- 2017
- Toxins in the fins helps uncover the leader within? Indian Institute for Science Education and Research, Kolkata, West Bengal, India. November 15, 2017
 - Groups of tails and scales, the environment affects the details. Institute of Neuroscience, University of Oregon, Eugene, OR, USA. October 30, 2017.
 - A few cadmium fish influence social behavior and group dynamics in zebrafish. Allee Symposium, Animal Behavior Society, Scarborough, Ontario, Canada. June 14, 2017.
 - Social Networks are powerful for answering behavioral ecology questions. Behavioral ecology workshop at the Oregon Hatchery Research Center, Asea, OR, USA. March 9, 2017


- Heads or tails, feet or fins: the environment affects everything within. Psychology seminar, University of Tennessee at Knoxville, TN, USA. January 26, 2017.
- 2016
- Social Roles in Zebrafish. Charité – Universitätsmedizin Berlin, Berlin, Germany. November 30, 2016.
 - Environmental features influence the behavior of zebrafish shoals. Fisheries and Wildlife Departmental Seminar, Oregon State University, Corvallis, OR, USA. April 26, 2016.
- 2015
- Collective Behavior in Huddles and Puddles: simple environmental mechanisms shape complex behavior in two model organisms. Talk presented at the Psychology seminar, University of Tennessee at Knoxville, TN, USA. September 25, 2015.
 - A tale of scales and tails: environmental mechanisms and social roles in mice and fish. Biology seminar University of Windsor, Windsor, Ontario, Canada. September 18, 2015.
 - Zebrafish behavior shaped by the natural world. University of Exeter, Exeter, Southwest England, United Kingdom. July 16, 2015
 - Splash into environmental mechanisms of zebrafish behavior. Carleton University, Ottawa, Ontario, Canada. June 30, 2015.
 - Individuals influence the responses of zebrafish shoals. Keck Center for Behavioral Biology, North Carolina State University, Raleigh, NC, USA. February 20, 2015.
- 2014
- The importance of social relationships for zebrafish and graduate school. Talk presented at University of Peradeniya, Kandy, Sri Lanka. October 24, 2014.
 - Martins lab ethoinformatics. Integrated Behavior Ontology for the Behavioral Science Community in Two Workshops. Princeton University, Princeton, N.J., USA. Organizers: Anne Clark, Susan Margulis, Peter Midford, and Cynthia Parr. August 7-8, 2014
- 2013
- Model organism collective behavior. Briefing at U.S. Embassy with Environment, Science, Technology and Health Officer Nelson Wu, Kuala Lumpur, Malaysia. March 15, 2013
 - Collective behavior in model organisms. University of Malaya, Kuala Lumpur, Malaysia. March 12, 2013.
 - Mouse and fish collective. Universiti Teknologi Malaysia-Shah Alam, Kuala Lumpur, Malaysia. March 11, 2013.
- 2011
- UmWeltian empirical studies and developmental situated-embodied agents: Computational models of group behavior. Talk presented at Epistemology of Modeling and Simulation, Pittsburgh, PA, USA. April 2, 2011.

TALKS

(♀ women (n = 51); ♀ underrepresented minorities (n = 20); ^Uundergrad (n = 26); 🏳️‍🌈 LGBTQI (n = 13); ♿ disabled (n = 6); 🏠 first generation co-authors (n = 10))

1. **Shelton, D.S.**, ^UJohnson, V., ^USanchez, A., ^UMailli, T.D., ^UJanssens, P.A., ^UGordon, J.E., Covington, M.A., and Noor, M.I. (2024, March). Intergenerational effects of dietary cadmium on zebrafish behavior and reproduction. Society for Toxicology.
2. **Shelton, D.S.**, ^UJohnson, V., ^USanchez, A., ^UMailli, T.D., ^UJanssens, P.A., ^UGordon, J.E., Covington, M.A., and Noor, M.I. (2023, April). Cadmium disrupts behavior and morphology across generations in zebrafish. Southeast Society for Toxicology and Chemistry.
3. **Shelton, D.S.**, ^UJohnson, V., ^USanchez, A., ^UMailli, T.D., ^UJanssens, P.A., and ^UGordon, J.E., (2023, January). Cadmium affects the optomotor response across generations in zebrafish. Black Women in Ecology Evolution and Marine Sciences.
4. **Shelton D.S.**, Duffy, C.R., Lauderdale, J.D., (2022, July). Cadmium affects visually-guided behavior and morphology across generations in zebrafish. Animal Behavior Society.
5. ^USanchez A., ^UJohnson V., **Shelton D.S.**, and Tanguay R.L., (2020, July) Cadmium-induced changes in zebrafish behavior and morphology. Animal Behavior Society.
6. Kelly J.R., ^UAmro H., ^UBower M.E., Martins E. P., and **Shelton D.S.** (2020, July). Females mediate cadmium-induced changes in zebrafish social networks. Animal Behavior Society Meeting.
7. **Shelton, D.S.** and Tanguay, R.L. (January, 2020). Cadmium-induced behavioral changes in zebrafish. EMT Research Day. Oregon State University, Corvallis, OR, USA.
8. **Shelton, D.S.**, ^UAustin Z.M., ^UKhemka A., Sykes, D.J., Suriyampola, P.S., and ♀ Martins E.P. (October, 2018). Cadmium-exposed zebrafish affect social behavior of the Un-exposed Majority. Pacific Northwest Association of Toxicologists. Bothell, WA, USA.
9. ^UNipple F., **Shelton D.S.**, Tanguay, R.L. Does environmental complexity influence zebrafish social networks. (2018, August). Society of Toxicology Intern Symposium, Oregon State University, Corvallis, OR, USA.
10. **Shelton D.S.**, ^UShelton, S. G., Daniels, D. K. Bhat, A., Raja, M., Tanguay, R.L. and Martins E.P. (2018, August). Water flow, but not vegetation influences collective behavior of zebrafish in the wild. Animal Behavior Society Conference. Milwaukee, Wisconsin, USA
11. **Shelton D.S.**, ^UShelton, S. G., Daniels, D. K. Bhat, A., Raja, M. Tanguay, R.L. and Martins E.P. (2018, March). Collective behavior of zebrafish in the wild. Oregon Chapter of the American Fisheries Society meeting. Eugene, Oregon, USA

12. **Shelton D.S.**, ^UAustin Z.M., ^UKhemka A., Sykes, D.J., Suriyampola, P.S., and Martins E.P. (2017, July). Behavioral toxicology of adult zebrafish. Oregon State University SuperFund Research Program Seminar. Corvallis, Oregon, USA.
13. **Shelton D.S.**, ^UAustin Z.M., ^UKhemka A., Sykes, D.J., Suriyampola, P.S., and Martins E.P. (2017, March). A few cadmium fish influence social behavior and group dynamics in zebrafish. Oregon Chapter of the American Fisheries Society meeting. Bend, Oregon, USA
*Invited to dirty waters special session.
14. **Shelton D.S.** (2016, October). A Primer for a developing group: Simple environmental features influence complex behavior in zebrafish. Leibniz Institute for Freshwater Ecology and Inland Fisheries, Berlin, Germany.
15. Suriyampola P.S., ^UIruri-Tucker, A.A., ^UEnriques, A., **Shelton D.S.**, and Martins E.P. (2016, August). Does group size improve synchronized motion in social groups? Animal Behavior Society Conference, Columbia, MO, USA.
16. **Shelton D.S.**, ^UAustin Z.M., ^UKhemka A., and Martins E.P. (2016, February). Cadmium-exposed individuals direct group behavior. Association for School for Public and Environmental Affairs Student Conference, Indiana University, Bloomington, IN, USA.
17. **Shelton D.S.**, ^UAustin Z.M., ^UKhemka A., and Martins E.P. (2015, August). Hidden in Pairs, Revealed in Shoals: indirect effects of cadmium on zebrafish group behavior. Talk included in Symposium organized by Thomas Bugnyar, Andrea Griffin, Sabine Tebbich at the International Ethological Conference, Cairns, New South Wales, Australia.
18. Suriyampola P.S., **Shelton D.S.**, Sykes D.J., Bhat A., and Martins E.P. (2015, August). Out of the wild: Social behavior of wild and domesticated zebrafish (*Danio rerio*) in response to habitat alteration. International Ethological Conference, Cairns, New South Wales, Australia.
19. ^UDavis, X. ^UKim, N., **Shelton, D.S.**, and Alberts, J.R. (2015, July). Individual variation in thermal physiology and maternal care. Center for Integrative Study of Animal Behavior, Indiana University, Bloomington, IN, USA.
20. **Shelton D.S.**, ^UAustin Z.M., ^UKhemka A., and [♥]Martins E.P. (2015, June). Hidden in Pairs, Revealed in Groups: cadmium influences group responses in zebrafish. Animal Behavior Society Conference, Anchorage, AK, USA.
21. Suriyampola P.S., **Shelton D.S.**, Sykes D.J., Bhat A., and Martins E.P. (2015, June). A tale of two strains: Social behavior of wild and domesticated zebrafish (*Danio rerio*) in response to habitat alteration. Animal Behavior Society Conference, Anchorage, AK, USA.

22. ^U Austin, Z.M. ^U Khemka, A., ^U Shachaf, M., **Shelton, D.S.**, and Martins, E.P. (2015, April). Cadmium affects the responsiveness of zebrafish shoals. National Conference on Undergraduate Research Conference, Eastern Washington University, Cheney, WA, USA.
23. Suriyampola, P.S., **Shelton, D.S.**, Sykes, D.J., and  Martins, E.P. (2015, March). Water flow influences the group behavior of zebrafish. Midwest Ecology and Evolution Conference, Bloomington, IN, USA.

POSTERS

1. Noor MD. I., Qui, H., Marriner J., Niemirski M., Balabuch Dal Bo A.C., Flores Ruiz C., Covington M., **Shelton D.S.** Investigating transgenerational effects of chronic dietary cadmium exposure on vision, behavior, and reproductive success of zebrafish. 15th Annual Graduate Student Symposium Biology department, University of Miami (2024, January).
2. Okutsu J., Deperalto M.K., Koop R., Smith K., Fernandez I., Dallman J., **Shelton D.S.** Investigating selenium's therapeutic potential for cadmium toxicity: larval zebrafish model. 15th Annual Graduate Student Symposium Biology department, University of Miami (2024, January).
3. Covington M, Walker M., Bentley E., Gordon J., Janssens P., Parral J., Garcia-Gonzalez T., Robinson J., Butler Z., Green T., Noor MD I., **Shelton D.S.** Exploring the effect of melanophores, iridophores, and morphology on visual acuity. 15th Annual Graduate Student Symposium Biology department, University of Miami (2024, January).
4. Smith K., Okutsu J., Fernandez I., Dallman J., **Shelton D.S.** Cadmium-induced vision and morphological effects in larval zebrafish: Exploring selenium's therapeutic potential. Annual Biomedical Research Conference for Minoritized Scientists (2023, November).
5. Okutsu J., Smith K., Fernandez I., Dallman J., **Shelton D.S.** Selenium protection against cadmium exposure in larval zebrafish: vision and morphology. Summer Research Programs Research Symposium, University of Miami (2023, August).
6. Noor MD. I., Flores Ruiz C., Qui, H., Marriner J., Niemirski M., Balabuch Dal Bo A.C., Covington M., **Shelton D.S.** The effects of dietary cadmium on zebrafish spawning success cross-generationally. Summer Research Programs Research Symposium, University of Miami (2023, August).
7. Covington M, Parral J., Walker M., Bentley E., Gordon J., Janssens P., Garcia-Gonzalez T., Robinson J., Butler Z., Green T., Noor MD I., **Shelton D.S.** The effect of strain morphology and age on zebrafish optomotor response. Summer Research Programs Research Symposium, University of Miami (2023, August).
8. Smith K., Okutsu J., Fernandez I., Dallman J., **Shelton D.S.** The effects of chronic cadmium and selenium exposure on zebrafish response to mechanosensory and visual

- stimuli. Summer Research Programs Research Symposium, University of Miami (2023, July).
9. Flores Ruiz C., Noor MD. I., Qui, H., Marriner J., Niemirski M., Balabuch Dal Bo A.C., Covington M., **Shelton D.S.** The cross-generational effects of dietary cadmium on the fecundity of zebrafish. Summer Research Programs Research Symposium, University of Miami (2023, July).
 10. Parral J., Covington M, Walker M., Bentley E., Gordon J., Janssens P., Garcia-Gonzalez T., Robinson J., Butler Z., Green T., Noor MD I., **Shelton D.S.** The effect of age and strain on zebrafish optomotor response. Summer Research Programs Research Symposium, University of Miami (2023, July).
 11. Bower, M.E., Amro, H., Kelly, J.R., and **Shelton, D.S.** (2019, November). Cadmium-induced changes in social networks: effects of environmental pollutants on zebrafish group behavior. Neuronet conference, University of Tennessee – Knoxville, TN, USA.
 12. **Shelton, D.S.**, Austin Z.M., Khemka A., Sykes, D.J., Suriyampola, P.S., and Martins E.P. (October, 2018). Cadmium-exposed zebrafish affect social behavior of the Unexposed Majority. Pacific Northwest Association of Toxicologists. Bothell, WA, USA.
 13. **Shelton D.S.**, Shelton, S. G., Daniels, D. K. Bhat, A., Raja, M., Tanguay, R.L. and Martins E.P. (2018, June). Collective behavior of zebrafish in the wild. Tribal Environmental Health Summit. Milwaukee, Oregon State University, Corvallis, Oregon, USA.
 14. Boyd, P.S., Shelton, D.E.P., **Shelton, D.S.**, and Noakes, D.L.G. (2017, August). Behavior and Sensory Systems of Steelhead. Undergraduate Research Symposium, Oregon State University, Corvallis, Oregon, USA.
 15. Shelton, D.E.P., Boyd, P.S., **Shelton, D.S.**, and Noakes, D.L.G. (2017, August). Behavior and Sensory Systems of Steelhead. PROMISE Expo, Oregon State University, Corvallis, Oregon, USA.
 16. **Shelton D.S.**, Austin Z.M., Khemka A., Sykes, D.J., Suriyampola, P.S., Noakes, D.L.G. and Martins E.P. (2017, March). A few cadmium fish influence social behavior and group dynamics in zebrafish. Gordon Research Conference on the Movement Ecology of Animals, Ventura, CA, USA.
 17. Kim, N. S., Myers, M. A., Cahela, J. P., **Shelton, D.S.**, and Alberts, J.R. (2016, April). The effects of body temperature, sex, and weight on spatial positioning. Poster presented at Animal Behavior Conference, Indiana University, Bloomington, IN, USA
 18. ^U Myers, M. A., ^U Kim, N. S., ^U Cahela, J. P., **Shelton, D.S.**, and Alberts, J.R. (2016, April). Body temperature and social centrality in mouse pups. Poster presented at Animal Behavior Conference, Indiana University, Bloomington, IN, USA.

19. ^UIruri-Tucker, A.A., ^USuriyampola, P.S., ^UEnriques, A., ^UBlackwell, G., **Shelton, D.S.**, Caceres, J., and Martins, E.P. (2016, April). The more the merrier: larger groups are better at responding to fluctuating environments. Poster presented at Animal Behavior Conference, Indiana University, Bloomington, IN, USA.
20. Davis, X. Kim, N., **Shelton, D.S.**, and Alberts, J.R. (2015, November). Individual variation in pup thermal physiology and maternal care. Poster presented at 2015 Annual Biomedical Research Conference for Minority Students (ABRCMS), Seattle, Washington, USA.
21. Khemka, A., Austin, Z., Shachaf, M., **Shelton, D.S.**, and Martins, E.P. (March, 2015). Hidden in Pairs, revealed in aggregation: cadmium influences zebrafish behavior. Poster presented at Animal Behavior Conference, Indiana University, Bloomington, IN, USA.