

DELIA S. SHELTON

National Science Foundation Postdoctoral Fellow

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<https://www.deliashelton.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's 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
- 2003-2005 **Texas Academy of Mathematics and Sciences (TAMS)**
University of North Texas, Denton, TX, USA
High School Diploma

POSITIONS

- 2020-2022 Postdoctoral Scholar – NIH 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 = 24); 🧑‍🌎 underrepresented minorities (n = 18); 🎓 first generation (n = 1); 🎓 undergrad (n = 7); 🏳️‍🌈 LGBTQI (n = 2); ♿ disabled (n = 1) co-authors)











1. 🧑‍🌎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
2. **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>
3. **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.
4. **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.
5. **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.
6. ♀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
7. **Shelton D.S.** (2016). A review of primer effects by murine pheromone signaling: pheromonal influences on reproductive conditions. *Journal of Ethology*, 34, 355.
8. ♀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.
9. **Shelton D.S.** (2015). CISAB ambassadors in the student conference exchange program. *Center for the Integrative Study of Animal Behavior Bulletin*, 17(1), 11.

10. **Shelton D.S.**, ^UPrice B.C., ^UOcasio K.M., and ^UMartins E.P. (2015) Social and physical environment influences shoal cohesion, but not coordination in zebrafish (*Danio rerio*). *Journal of Comparative Psychology*, 129, 72-77.
11. **Shelton D.S.**, ^UAtagi, 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
12. **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.
13. **Shelton D.S.** (2013). Shared goals. *Bulletin of the Museum of Zoology*, 3(1), 6.
14. ^UPrice B.C., **Shelton, D.S.**, and ^UMartins, E.P. (2013). Group-size-dependent cohesion of zebrafish (*Danio rerio*) in the presence of disturbances. *Integrative and Comparative Biology* 53:E353.
15. **Shelton D.S.** and Alberts J.R. (2013). Ontogenesis of group regulatory behavior in mouse litters. *Integrative and Comparative Biology*, 53:E370.
16. ^UDillon G.M, ^U**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.
17. ^UDzieweczynski T.L., ^UBessler 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

SUBMITTED:

1. ^UKelly J. R., ^U**Shelton D.S.**, ^UShelton, S. G., ^UDaniels, D. K. ^UBhat, A., ^UMondal., R., Raja, M., ^UNipple, F., and ^UMartins E.P. Wild zebrafish sentinels: biological monitoring of pollution using behavior and morphology. (Invited special issue in *Toxics*)
2. ^USuriyampola P. S., ^UIruri-Tucker A., ^UEnriquez, A., ^UBlackwell, G., ^UCáceres J., **Shelton D. S.**, and ^UMartins E P. Small groups can benefit from even a small increase in group size when encountering varying water flow. (*in review*)
3. ^UChen J., Kong A.; **Shelton D.**, ^ULi J., Zhao F., ^UBai C., Huang K., Mo W., Chen S., ^UXu H., ^UTanguay R.L., and ^UDong Q. Early life stage transient aristolochic acid exposure induces behavioral hyperactivity, but not nephrotoxicity in larval zebrafish. (*in review*)

MANUSCRIPTS IN PREPARATION:

1. **Shelton D.S.**, ^U Austin Z.M., ^U Khemka A.,   Sykes D.J.,  Suriyampola P.S., Galholt S.P., Shaw, J.R., and   Martins, E.P. Cadmium-exposed zebrafish affect social behavior of the un-exposed majority. (to be resubmitted winter 2020)
2. ^U Myers M.A., ^U Kim N., ^U Cahela J., **Shelton D.S.**, and Alberts J.R. Temperature-dependent spatial and social centrality. (in prep)
3. **Shelton D.S.**, and Raja, M. Sensory tradeoffs across wild zebrafish populations. (To be submitted winter 2020).

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 (\$1,695,455)*

*all amounts are in USD

EXTERNAL AWARDS (\$1,413,888)

External research support

Ongoing Research Support

NIH K99/R00 Pathway to Independence D. Shelton (PI) 03/2020
The goal of this proposal is to study cadmium-induced behavioral disorders across generations. (\$998,973)

Submitted, but not Funded Support

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)

External scholastic support

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
2013 NSF IGERT Travel Award - \$2953
2012 NSF IGERT Travel Award - \$580

INTERNAL AWARDS (IU – INDIANA UNIVERSITY, SU – SOUTHWESTERN UNIVERSITY;
\$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 in 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 Ernst 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

Internal scholastic support continued

- 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.

PROFESSIONAL AFFILIATIONS

- American Fisheries Society - Oregon Chapter 2017-2018
- Center for the Integrative Study of Animal Behavior 2010-2016
- Alliance for Graduate Education and the Professoriate - Midwest Cross Roads 2010-2016
- Animal Behavior Society 2005-present
 - o 2017-Present member of the Diversity committee, and 2017-2019 coordinator of the Charles H. Turner Program.

TEACHING EXPERIENCE

- 2020 Guest Lecture, Animal Behavior Journey
Charles H. Turner Program, Animal Behavior Society ~10 students
Animal Behavior Society Virtual meeting. July 27, 2020
- 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
Mentor: Emilia Martins, Ph.D.

TEACHING EXPERIENCE CONTINUED

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 1 PhD student, 2 master’s of science student, 32 ^Uundergrads and 5 high school students in full-time summer research programs or multi-week academic year internships. The students were from diverse backgrounds, 28 ♀women, 19 🍷people of color, 11 🎓first generation college students, 3 🏳️LGBTQIA students and one 🏆veteran. I have 7 undergraduate co-authors on refereed articles, and 23 students have given presentations at conferences.

MENTORING CONTINUED

PHD STUDENTS

2019-Present 🇧🇷🇺🇸 Jeff Kelly – PhD student studying pollutant effects on neural behavior.

MASTER'S STUDENTS

2019 🇺🇸🇺🇸 Molly Arnold – MS in Forestry, NSF I-Corps, Oregon State University

2017-2018 Samuel Swanson – MS in Water Resource Engineering, Oregon State University

UNDERGRADUATES

2020 🇺🇸🇺🇸 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 🇺🇸 Gillian McHaney- research assistant, University of Tennessee - Knoxville

2020 🇺🇸 Gabriel Isaac- research assistant, University of Tennessee - Knoxville

2019- Present 🇺🇸🇺🇸🇺🇸 Arianna Sanchez - STEM Leaders research assistant, Oregon State University

2019- Present 🇺🇸🇺🇸 Myra Bower - research assistants, University of Tennessee - Knoxville

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

- 2017 🍷♀ Dolores Shelton – Oregon State University, PROMISE intern.
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

JR. HIGH SCHOOL STUDENTS

- 2015 🍷♀ Dolores Shelton – Brenham Jr. High summer research assistant

PUBLIC ENGAGEMENT

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- 2020 #BlackInAnimalBehavior – Twitter campaign highlight Black Animal Behaviorists
I co-organized the campaign and did the art.
 - 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, ad translator
 - 2017, 2018 Student presentation judge, Oregon Chapter of American Fisheries
 - 2011-2016 Volunteer with Bethel Homework Help, contributing to the efforts that were honored by the 2014 *Be More Engaged Award* from the City of Bloomington Community and Family Resources Department for encouraging literacy.
 - 2011-2013 Indiana University, Mechanisms of Behavior (Graduate Student Representative)
 - 2010-2016 Student Member, CISAB Animal Behavior conference planning committee.
Chair of program committee (2013-2014), peer reviewing and compiling abstracts.

Animal (6), Animal Behavior (2), Aquatic Biology (3), Biology (2), Entropy (1), Environmental Biology of Fishes (3), Frontiers in Ecology and Evolution (2), Journal of Comparative Psychology (2), Marine Ecology Progress Series (1), Nature Scientific Reports (1), Neuroscience and Biobehavioral reviews (2), PeerJ (2), PLOS ONE (4), Royal Society Open Science (7), Symmetry (2), NPR A Moment in Science (1).

MEDIA

1. Neff, E.P. Where the wild zebrafish are. *Lab Anim* 49, 305–309 (2020).
<https://doi.org/10.1038/s41684-020-00665-z>
2. 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/>
3. 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/>
4. 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>
5. Hu, J. Online GRE test heightens equity concerns, *Science*. (06/26/2020)
https://www.sciencemaginedigital.org/sciencemagazine/26_june_2020/
6. Blog post Inspiration Dissemination
(4/9/2019) <https://podcasts.apple.com/us/podcast/delia-s-shelton-zebrafish-sentinels-studying-effects/id1337404264?i=1000434706378>
7. 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>
8. Evans Ogden, L. For Minorities in Science, Building Communities Matter.
Undark Magazine (11/06/2017) <https://undark.org/article/mentorship-programs-science-technology/>
9. 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/>
10. CISAB - segment in Indiana University REU program in Animal Behavior (7/17/2013) <http://www.indiana.edu/~animal/reu/REU.php>
11. Southwestern University Newsroom - Spanish Department Alumni Stories (9/24/2013) <http://www.southwestern.edu/live/news/8504-delia-shelton-class-of-2009>

12. 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

- 2021
- Zebrafish sentinels: using zebrafish as biological monitors. Ecological and Evolutionary Ethology of Fishes. July 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. 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





































- 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, Alsea, 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); U undergrad (n = 26); 🇺🇸🇬🇧🇲🇧🇶🇮 LGBTQI (n = 13); 🧑🏻🧑🏼🧑🏽🧑🏾🧑🏿 disabled (n = 6); 🎓 first generation co-authors (n = 10))

1. U♀🇺🇸🇬🇧🇲🇧🇶🇮🎓 Sanchez A., U🧑🏻🧑🏼🧑🏽 Johnson V., **Shelton D.S.**, and ♀🇺🇸 Tanguay R.L., (2020, July) Cadmium-induced changes in zebrafish behavior and morphology. Animal Behavior Society.
2. 🇺🇸 Kelly J.R., U♀ Amro H., U🎓♀ Bower M.E., 🧑🏻🧑🏼🧑🏽 Martins E. P., and **Shelton D.S.** (2020, July). Females mediate cadmium-induced changes in zebrafish social networks. Animal Behavior Society Meeting.
3. **Shelton, D.S.** and ♀🇺🇸 Tanguay, R.L. (January, 2020). Cadmium-induced behavioral changes in zebrafish. EMT Research Day. Oregon State University, Corvallis, OR, USA.
4. **Shelton, D.S.**, U🎓🎓 Austin Z.M., U🎓 Khemka 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.
5. 🧑🏻🧑🏼🧑🏽 U Nipple 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.
6. **Shelton D.S.**, 🧑🏻🧑🏼🧑🏽 U Shelton, 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
7. **Shelton D.S.**, 🧑🏻🧑🏼🧑🏽 U Shelton, 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
8. **Shelton D.S.**, 🎓 U Austin Z.M., U Khemka A., 🇺🇸🇬🇧🇲🇧🇶🇮 Sykes, D.J., ♀ Suriyampola, P.S., and ♀ Martins E.P. (2017, July). Behavioral toxicology of adult zebrafish. Oregon State University Super Fund Research Program Seminar. Corvallis, Oregon, USA.

9. **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.
10. **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.
11. 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.
12. **Shelton D.S.**, ^U^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.
13. **Shelton D.S.**, ^U^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.
14. 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.
15. ^U^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.
16. **Shelton D.S.**, ^U^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.
17. 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.
18. ^U^UAustin, Z.M. ^UKhemka, A., ^UShachaf, 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.

19. ♀ 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. U♀♂ Bower, M.E., U♀ 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.
2. **Shelton, D.S.**, U♀♂ 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 Un-exposed Majority. Pacific Northwest Association of Toxicologists. Bothell, WA, USA.
3. **Shelton D.S.**, ♀♂ U 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.
4. U♀♂ Boyd, P.S., ♀♂ U 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.
5. ♀♂ U Shelton, D.E.P., U♀♂ 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.
6. **Shelton D.S.**, U♀♂ 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.
7. U♀ Kim, N. S., U♀ Myers, M. A., ♀ U 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
8. 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.

9. ^UIruri-Tucker, A.A., [♀]Suriyampola, P.S., ^{♂♀}^UEnriques, A., [♀]^UBlackwell, G., **Shelton, D.S.**, ^{♂♀}^UCaceres, 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.

 10. ^{U♂♀}^UDavis, X. ^{U♀}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.

 11. ^{U♀}^UKhemka, A., ^{U♀}^UAustin, Z., ^{U♀}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.
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