

# Loranzie S. Rogers

Department of Psychology  
Animal Behavior Program  
University of Washington  
Guthrie Hall, Seattle, WA 98195

loranzie@uw.edu  
loranzierogers.com  
ORCID: 0000-0003-0040-6994

## EDUCATION

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Ph.D. Animal Behavior	Department of Psychology, University of Washington Supervisor: Dr. Joseph A. Sisneros	2019 – Present
M.S. Integrative Biosciences	Department of Biology, University of Minnesota Supervisor: Dr. Allen F. Mensinger	2017 – 2019
Bachelor of Science	Department of Biology, University of Minnesota Duluth Major: Biology Minor: Chemistry Supervisor: Dr. Allen F. Mensinger	2013 – 2017

## GRANTS, FELLOWSHIPS & AWARDS

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### Graduate

University of Washington Department of Psychology Travel Award (\$750)	2019
University of Minnesota Graduate School Excellence in Research Grant (\$6,441)	2018
University of Minnesota Graduate School Travel Award (\$400)	2018
Swenson College of Science and Engineering Travel Award (\$400)	2018
University of Minnesota Integrated Biosciences Travel Award (\$500)	2018
Society for Neuroscience Trainee Professional Development Award (\$1,200)	2018
Best Student Paper Presentation North American Fisheries Society (\$250)	2018
University of Minnesota Graduate School Travel Award (\$559)	2018
University of Minnesota LSAMP Travel Award (\$1,000)	2018
National Science Foundation Graduate Research Fellowship (\$34,000/year + tuition)	2018 – Present
University of Minnesota Diversity of Views and Experience Fellowship (\$25,000 + tuition)	2017

### Undergraduate

University of Minnesota Duluth Undergraduate Research Opportunities Program (\$2,000)	2017
University of Minnesota LSAMP Travel Award (\$1,300)	2017
National Science Foundation Research Experience for Undergraduates (\$5,500)	2016
University of Minnesota LSAMP Travel Award (\$550)	2016
University of Minnesota Duluth Undergraduate Research Opportunities Program (\$2,000)	2016
University of Minnesota Duluth Undergraduate Research Opportunities Program (\$2,000)	2015
Ronald E. McNair Scholars Program (\$2,500 + GRE funding)	2015

## PUBLICATIONS

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Putland RL, **Rogers LS**, Giuffrida B and Mensinger AF (2020). Anesthetic effects of AQUI-S® (eugenol) on the afferent neural activity of the oyster toadfish (*Opsanus tau*). *Fish Physiology and Biochemistry*. doi: 10.1007/s10695-020-00874-w.

**Rogers LS**, and Sisneros JA (2020). Auditory evoked potentials of utricular hair cells in the vocal plainfin midshipman, *Porichthys notatus*. *Journal of Experimental Biology*, 223(17). doi: 10.1242/jeb.226464.

- Rogers LS**, Putland RL, and Mensinger AF (2020). The effect of biological and anthropogenic sound on the auditory sensitivity of oyster toadfish, *Opsanus tau*. *Journal of Comparative Physiology A*, 206(1), 1-14. doi: 10.1007/s00359-019-01381-x.
- Butler JM, Whitlow SM, **Rogers LS**, Putland RL, Mensinger AF, and Maruska KP (2019). Reproductive-state dependent plasticity in the visual system of an African cichlid fish. *Hormones and Behavior*. doi: 10.1016/j.yhbeh.2019.06.003.
- Nissen AC, Vetter BJ, **Rogers LS**, and Mensinger AF (2019). Impacts of anthropogenic sound on hearing sensitivities of bigheaded carps. *Fish Physiology and Biochemistry*, 1-13. doi: 10.1007/s10695-019-00657-y.
- Mensinger AF, Van Wert JC, and **Rogers LS** (2019). Lateral line sensitivity in free-swimming toadfish *Opsanus tau*. *Journal of Experimental Biology*, 222(2). doi: 10.1242/jeb.190587.
- Vetter BJ, **Rogers LS**, and Mensinger AF (2019). Visual sensitivity and the impacts of strobe light on invasive silver (*Hypophthalmichthys molitrix*) and bighead (*H. nobilis*) carp. *Journal of Fish Biology: The Sensory Ecology of Fishes (special issue)*. 95:256–262. doi: 10.1111/jfb.13880.
- Keyler TD, Hrabik TR, Mensinger AF, **Rogers LS**, and Gorman OT (2018). Effect of light intensity and substrate type on siscowet lake trout (*Salvelinus namaycush siscowet*) predation on deepwater sculpin (*Myoxocephalus thompsonii*). *Hydrobiologia*. 1-12. doi: 10.1007/s10750-019-3944-5.
- Rogers LS**, Van Wert JC, and Mensinger AF (2017). An implantable two axis micromanipulator made with a 3D printer for recording neural activity in free-swimming fish. *Journal of Neuroscience Methods*, 288, 29-33. doi: 10.1016/j.jneumeth.2017.06.012.

### **In Review**

- Rogers LS**, Van Wert JC, and Mensinger AF. Utricular sensitivity to multimodal inputs in the vocal toadfish, *Opsanus tau*. *In review: Journal of Neurophysiology*.
- Zeng R, Brown AD, **Rogers LS**, Lawrence OT, Clark JI, and Sisneros JA. Age-related loss of auditory sensitivity in the zebrafish (*Danio rerio*). *In review: Hearing Research*.

## **PROFESSIONAL PRESENTATIONS**

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### **Conference Talks**

University of Washington, Department of Psychology. Seattle, WA	2020
Society for integrative and Comparative Biology. Austin, TX	2020
Society for Integrative and Comparative Biology. Tampa, FL	2019
J.B. Johnston Club for Evolutionary Neuroscience	2018
National American Fisheries Society. Atlantic City, NJ	2018
Upper Midwest Invasive Species Conference. Rochester, MN	2018
International Charr Symposium. Duluth, MN	2018
Midwest Fish and Wildlife Conference. Milwaukee, WI	2018
Society for Integrative and Comparative Biology. San Francisco, CA	2018
Marine Biological Laboratory Research Symposium. Woods Hole, MA	2016

### **Invited Seminars**

University of Minnesota Duluth Department of Biology. Duluth, MN	2019
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### **Poster Presentations**

Society for Neuroscience. San Diego, CA	2018
Society for Integrative and Comparative Biology. New Orleans, LA	2017
National American Fisheries Society. Kansas City, MO	2016
University of Minnesota Duluth Undergraduate Symposium, Duluth, MN	2016
Midwest Fish and Wildlife Conference. Grand Rapids, MI	2016

## TEACHING EXPERIENCE

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### *Teaching Assistant*

General Biology II, University of Minnesota Duluth. Duluth, MN 2016

## PROFESSIONAL ACTIVITIES

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### *Society Memberships*

Animal Behavior Society • J.B. Johnston Club for Evolutionary Neuroscience • Society for Neuroscience • Society for Integrative and Comparative Biology

## RESEARCH & VOLUNTEER MEDIA OUTREACH

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University of Minnesota Duluth – Alumni research achievements 2018  
The Falmouth Enterprise – *Students Bring Fresh Perspective to WHOI and MBL* 2018  
Marine Biological Laboratories: The Well – *Biological Discovery in Woods Hole Students Receive NSF Graduate Research Fellowships* 2018  
University of Minnesota Duluth – *SCSE Students Receive Prestigious Fellowship* 2018  
Minnesota Sea Grant – *Superior Science: Evaluating Lake Superior's Health in a Changing World* 2017  
Minnesota Sea Grant – *The Seiche: Ideas for Building a Career in Fisheries* 2016  
University of Minnesota Duluth – *Fishing for Results* 2016

## PUBLIC ENGAGEMENT & SCIENCE COMMUNICATION

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### *Research Internships*

Marine Biological Laboratory NSF Research Experience for Undergraduates Student Mentor 2018, 2019

### *K - 12*

Lowell Elementary After School Science Club Coordinator, Duluth, MN 2017 – 2019  
University of Minnesota Duluth Swenson Science and Engineering Day 2016 – 2019  
Myers-Wilkens Science and Engineering Night, Duluth, MN 2016 – 2018

## REFERENCES

Joseph A. Sisneros, Ph.D.  
Professor  
Department of Psychology  
University of Washington  
Guthrie Hall  
Seattle, WA 98195  
(206) 543-8893  
Sisneros@uw.edu

Allen F. Mensinger, Ph.D.  
Department Head/Professor  
Department of Biology  
University of Minnesota – Duluth  
1035 Kirby Drive  
Duluth, MN 55812  
(218) 726-7259  
amensing@umn.edu

Karen P. Maruska, Ph.D.  
Associate Professor  
Department of Biological Sciences  
Louisiana State University  
Life Sciences Building  
Baton Rouge, LA 70803  
(225) 578-1738  
kmaruska@lsu.edu