

Loranzie S. Rogers

Department of Psychology
Animal Behavior Program
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EDUCATION

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

Graduate: Ph.D.

Howard Hughes Medical Institute Gilliam Fellowship (\$50,000/year)	2021 - 2024
Ford Predoctoral Fellowship (Honorable Mention)	2021
University of Washington Auditory Neuroscience Training Grant (NIH T32)	06/ - 09/2021
University of Washington Department of Psychology Travel Award (\$750)	2019

Graduate: M.S.

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 - 2023
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

Zeng R, Brown AD, **Rogers LS**, Lawrence OT, Clark JI, and Sisneros JA (2021). Age-related loss of auditory sensitivity in the zebrafish (*Danio rerio*). *Hearing Research*, 403. doi: 10.1016/j.heares.2021.108189.

- 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.
- Mensing 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** and Sisneros JA. Reproductive state-dependent auditory sensitivity of female plainfin midshipman, *Porichthys notatus*, utricular hair cells. *In-prep: Proceedings B*.
- Rogers LS**, Van Wert JC, and Mensinger AF. Utricular sensitivity to multimodal inputs in the vocal toadfish, *Opsanus tau*. *In revision: Journal of Neurophysiology*.
- Rogers LS**, Hrabik TR, Harrington KA, Mensinger AF, and Keyler TD. Scotopic visual sensitivity of Percid fishes and implications for foraging habitat. *Submitted: Journal of Comparative Physiology A*.

PROFESSIONAL PRESENTATIONS

Conference Talks

* Denotes presenting author

- Rogers LS***, Van Wert JC, and Mensinger AF. Multimodal sensory integration of the utricle in freely swimming toadfish, *Opsanus tau*. Society for Integrative and Comparative Biology Meeting. Austin, TX. January 3-7, 2020.
- Putland RL*, **Rogers LS**, Mackiewicz AG, and Mensinger AF. Effect of anthropogenic sound on the communication space of the oyster toadfish, *Opsanus tau*. Society for Integrative and Comparative Biology Meeting. Austin, TX. January 3-7, 2020.
- Rogers LS***, Vetter BJ, and Mensinger AF. The effect of light stimuli on dark-adapted visual sensitivity in invasive silver (*Hypophthalmichthys molitrix*) and bighead (*H. nobilis*) carp. 2019 Society for Integrative and Comparative Biology Meeting, Tampa, FL. January 3-7, 2019.

Mensing AF*, Van Wert JC, and **Rogers, LS**. Lateral line activity during self-generated movement in free swimming toadfish, *Opsanus tau*. 2018 J.B. Johnston Club for Evolutionary Neuroscience Annual Meeting, San Diego, CA. November 2, 2018.

Nissen AC*, Vetter BJ, **Rogers LS**, and Mensinger AF. Measuring Impacts of Anthropogenic Sound on Hearing Sensitivities of Bigheaded Carps. 2018 Upper Midwest Invasive Species Conference, Rochester, MN. October 15-18, 2018.

Rogers LS*, Van Wert JC, and Mensinger AF. The effect of self-generated movement on lateral line sensitivity in the toadfish, *Opsanus tau*. 2018 National American Fisheries Society Meeting, Atlantic City, NJ. August 19-23, 2018.

Keyler TD*, Hrabik TR, **Rogers LS**, Mensinger AF, and Gorman OT. Foraging Mechanisms of Siscowet Lake Trout (*Salvelinus namaycush*) on the Benthic Deepwater Sculpin (*Myoxocephalus thompsonii*): Effect of Light and Substrate Composition on Native Predator-Prey Interaction. International Charr Symposium, Duluth, MN. June 18-21, 2018.

Keyler TD*, Hrabik TR, **Rogers LS**, Gorman OT, and Mensinger AF. Foraging Mechanisms of Siscowet Lake Trout (*Salvelinus namaycush*) on the Benthic Deepwater Sculpin (*Myoxocephalus thompsonii*): Effect of Light and Substrate Composition on Native Predator-Prey Interaction. 2018 Midwest Fish and Wildlife Conference, Milwaukee, WI. January 28-31, 2018.

Van Wert JC*, **Rogers LS**, and Mensinger AF. The effect of self-generated movement on lateral line sensitivity in the Toadfish, *Opsanus tau*. 2018 Society of Integrative and Comparative Biology Meeting, San Francisco, CA. January 3-7, 2018.

Poster Presentations

Rogers LS*, Van Wert JC, and Mensinger AF. The effect of self-generated movement on lateral line sensitivity in the toadfish, *Opsanus tau*. 2018 Society for Neuroscience Meeting, San Diego, CA. October 3-7, 2018.

Butler JM*, Whitlow SM, **Rogers LS**, Putland RL, Mensinger AF, and Maruska KP. Reproductive state dependent visual sensitivity in an African cichlid fish. 2018 Society for Neuroscience Meeting, San Diego, CA. November 3-7, 2018.

Rogers LS*, Giuffrida B, Le Roux V, and Mensinger AF. Visualization of the Oyster Toadfish (*Opsanus tau*) Anterior Lateral Line via Micro-CT. 2017 Society of Integrative and Comparative Biology Meeting, New Orleans, LA. January 4-8, 2017.

Mensing AF, **Rogers LS***, and Van Wert JC*. An implantable two axis micromanipulator made by a 3-D printer for recording neural activity in free swimming fish. 2017 Society of Integrative and Comparative Biology Meeting, New Orleans, LA. January 4-8, 2017.

Keyler TD*, Hrabik TR, **Rogers LS**, Harrington KA, and Mensinger AF. Visual Sensitivity of Walleye (*Sander vitreus*): A comparison of freshwater fishes. 2016 Midwest Fish & Wildlife Conference, Grand Rapids, MI. January 23-26, 2016.

TEACHING EXPERIENCE

Teaching Assistant

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

Spring 2016

Animal Behavior, University of Washington. Seattle, WA

Fall 2021

PROFESSIONAL & ACADEMIC ACTIVITIES

Society Memberships

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

Reviewer

Journal of Experimental Biology

RESEARCH & VOLUNTEER MEDIA OUTREACH

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

PUBLIC ENGAGEMENT & SCIENCE COMMUNICATION

Research Internships

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