**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**

**Ph.D. Animal Behavior**

**M.S. Integrative Biosciences**

**Bachelor of Science**

Department of Psychology, University of Washington

Supervisor: Dr. Joseph A. Sisneros

Department of Biology, University of Minnesota

Supervisor: Dr. Allen F. Mensinger

Department of Biology, University of Minnesota Duluth

Major: Biology Minor: Chemistry

Supervisor: Dr. Allen F. Mensinger

2019 – Present

2017 – 2019

2013 – 2017

**GRANTS & AWARDS**

University of Washington Department of Psychology Travel Award ($750)

University of Minnesota Graduate School Excellence Research Grant ($6,441)

University of Minnesota Graduate School Travel Award ($400)

Swenson College of Science and Engineering Travel Award ($400)

University of Minnesota Integrated Biosciences Travel Award ($500)

Society for Neuroscience Trainee Professional Development Award ($1,200)

Best Student Paper Presentation North American Fisheries Society ($250)

University of Minnesota Graduate School Travel Award ($559)

University of Minnesota North Star STEM Alliance Travel Award ($1,000)

National Science Foundation Graduate Research Fellowship ($34,000/year + tuition)

University of Minnesota Diversity of Views and Experience Fellowship ($25,000 + tuition)

University of Minnesota Duluth Undergraduate Research Opportunities Program ($2,000)

University of Minnesota North Star STEM Alliance Travel Award ($1,300)

National Science Foundation Research Experience for Undergraduates ($5,500)

University of Minnesota North Star STEM Alliance Travel Award ($550)

University of Minnesota Duluth Undergraduate Research Opportunities Program ($2,000)

University of Minnesota Duluth Undergraduate Research Opportunities Program ($2,000)

Ronald E. McNair Scholars Program ($2,500 + GRE funding)

2019

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2017 – Present

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**PUBLICATIONS**

**Rogers, L.S.**, Putland, R.L., & Mensinger, A.F. (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, J.M., Whitlow, S.M., **Rogers, L.S.**, Putland, R.L., Mensinger, A.F., & Maruska, K.P. (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, A.C., Vetter, B.J., **Rogers, L.S.**, & Mensinger, A.F. (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, A. F., Van Wert, J. C., & **Rogers, L. S.** (2019). Lateral line sensitivity in free-swimming toadfish Opsanus tau. *Journal of Experimental Biology*, *222*(2). doi: 10.1242/jeb.190587.

Vetter, B.J., **Rogers, L.S.**, & Mensinger, A.F. (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, T.D., Hrabik, T.R.,Mensinger, A.F., **Rogers, L.S.**,& Gorman, O.T**.** (2018)**.**Foraging mechanisms of siscowet lake trout (*Salvelinus namaycush siscowet*) on the benthic deepwater sculpin (*Myoxocephalus thompsonii*): effect of light intensity and substrate composition on native predator-prey interaction*.* *Hydrobiologia.* 1-12*.* doi: 10.1007/s10750-019-3944-5.

**Rogers, L.S.**, Van Wert, J.C., & Mensinger, A.F. (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, L.S.**, Van Wert, J. C., & Mensinger, A. F. Utricular sensitivity to multimodal inputs in the vocal toadfish, *Opsanus tau. Accepted pending revisions: Journal of Neurophysiology.*

Putland, R.L., **Rogers, L.S.**, & Mensinger, A.F. The effects of eugenol on lateral line sensitivity in the Oyster Toadfish, *Opsanus tau. In review: Journal of Experimental Biology.*

**Rogers, L.S.** and Sisneros, J.A. Auditory evoked potentials of utricular hair cells in the vocal plainfin midshipman, *Porichthys notatus. In review: Journal of Experimental Biology*.

Zeng, R., Brown, A.D., **Rogers, L.S.** and Sisneros, J.A. Age-related loss of auditory sensitivity in the zebrafish (*Danio rerio*). *Submitted:* *Hearing Research.*

**PROFESSIONAL PRESENTATIONS**

***Conference Talks***

Society for integrative and Comparative Biology. Austin, TX

Society for Integrative and Comparative Biology. Tampa, FL

J.B. Johnston Club for Evolutionary Neuroscience

National American Fisheries Society. Atlantic City, NJ

Upper Midwest Invasive Species Conference. Rochester, MN

International Charr Symposium. Duluth, MN

Midwest Fish and Wildlife Conference. Milwaukee, WI

Society for Integrative and Comparative Biology. San Francisco, CA

Marine Biological Laboratory Research Symposium. Woods Hole, MA

***Invited Seminars***

University of Minnesota Duluth Department of Biology. Duluth, MN

***Poster Presentations***

Society for Neuroscience. San Diego, CA

Society for Integrative and Comparative Biology. New Orleans, LA

National American Fisheries Society. Kansas City, MO

University of Minnesota Duluth Undergraduate Symposium, Duluth, MN

Midwest Fish and Wildlife Conference. Grand Rapids, MI

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2016

2016

**TEACHING EXPERIENCE**

***Teaching Assistant***

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

2016

**PROFESSIONAL ACTIVITIES**

***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**

University of Minnesota Duluth – Alumni research achievements

The Falmouth Enterprise – *Students Bring Fresh Perspective to WHOI and MBL*

Marine Biological Laboratories: The Well – *Biological Discovery in Woods Hole Students Receive NSF Graduate Research Fellowships*

University of Minnesota Duluth – *SCSE Students Receive Prestigious Fellowship*

Minnesota Sea Grant – *Superior Science: Evaluating Lake Superior’s Health in a Changing World*

Minnesota Sea Grant – *The Seiche: Ideas for Building a Career in Fisheries*

University of Minnesota Duluth – *Fishing for Results*

2018

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2016

**PUBLIC ENGAGEMENT & SCIENCE COMMUNICATION**

***Research Internships***

Marine Biological Laboratory NSF Research Experience for Undergraduates Student Mentor

***K - 12***

Lowell Elementary After School Science Club, Duluth, MN

University of Minnesota Duluth Swenson Science and Engineering Day

Myers-Wilkens Science and Engineering Night, Duluth, MN

2018, 2019

2017 – 2019

2016 – 2019

2016 – 2018

**REFERENCES**

Joseph A. Sisneros, Ph.D.

Professor

Department of Psychology

University of Washington

Guthrie Hall

Seattle, WA 98195

(206) 543-8893

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Karen P. Maruska, Ph.D.

Associate Professor

Department of Biological Sciences

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Baton Rouge, LA 70803

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Allen F. Mensinger, Ph.D.

Department Head/Professor

Department of Biology

University of Minnesota – Duluth

1035 Kirby Drive

Duluth, MN 55812

(218) 726-7259

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