Matthew Gaidica, PhD

11/2026

Contact Information

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Present Position

09/2023-present
Assistant Professor of Neuroscience (Research Track)
Department of Neuroscience
Washington University School of Medicine, St. Louis, MO

Education

Undergraduate

09/2005-12/2010
BS
Kettering University, Flint, MI (Electrical Engineering)

Graduate

09/2015-05/2019
PhD
University of Michigan, Ann Arbor, MI (Neuroscience)
Thesis title: The Motor Thalamus in Action: How Neural Signals Coordinate Across Time in a Ballistic Choice Task
Advisor: Dr. Dan Leventhal
Dissertation research: electrophysiology and optogenetic methods to investigate the role of the motor thalamus in ballistic movements and movement disorders.

Post-graduate training

10/2019-07/2023
NASA-TRISH Academy of Bioastronautics Postdoctoral Fellowship
University of Michigan, Ann Arbor, MI

Additional education

09/2022
Program: Officer Training School

Institution: U.S. Air Force
Location: Maxwell Air Force Base, AL

Academic and Promotion History

09/2015-05/2019
Ph.D. Candidate
Leventhal Lab, Department of Neurology
University of Michigan, Ann Arbor, MI

09/2016-05/2018
Graduate Student Instructor
University of Michigan, Ann Arbor, MI

10/2019-07/2023
Postdoctoral Fellow
Dantzer Lab, Department of Psychology
University of Michigan, Ann Arbor, MI

09/2023-present
Assistant Professor of Neuroscience (Research Track); Director, Neurotech Hub
Department of Neuroscience
Washington University School of Medicine in St. Louis, St. Louis, MO

Employment History

01/2004-12/2005
Electronics Technician, Testek Inc., Livonia, MI

09/2005-05/2009
Electrical Engineering Co-op, Robert Bosch LLC, Plymouth, MI

07/2010-12/2012
Founder/Engineer, Matt Gaidica, LLC, Mountain View, CA

01/2010-10/2012
Co-founder/Engineer, Prime Studios LLC, Mountain View, CA

09/2012
Co-founder, Landr.co (acquired)

01/2013-12/2014
Neurology Research Assistant, University of Michigan, Ann Arbor, MI

08/2013-05/2014
Board of Directors Vice President, FlexTech Academy, Novi, MI

06/2016
Founder, GammaLightTherapy.com (acquired)

10/2025-present
Founder, Hublink.cloud, St. Louis, MO

Professional Licensures and Certifications

Licenses

2022
License/certificate: Private Pilot Certificate
Issuing organization: Federal Aviation Administration
License number: 4405703
Current status: Active

Certifications and training

2014-2019
BLS005w Laser Safety
ULAM-10050 ULAM Hazard Containment Part for Rodents
ULAM-10100 Introduction to the Laboratory Rat and Mouse
ULAM-10120 Rodent Survival Surgery; ULAM-10131-2 Animal Room Procedures for Rodents
ULAM-10900 Introduction to the Non-Human Primate and Zoonoses
ULAM-12500 Introduction to Wildlife
ULAM-50042 Technique: Subcutaneous Implant
ULAM-50116 Technique: Laparotomy
SAFE-35129-R17 Hazard

Military Service

2018
Battlefield Airman Scholarship Program Recipient, U.S. Air Force
Specialty: 9T100 Officer Trainee, Combat Rescue Officer Phase II Non-select (Class 18B)
National Defense Service Medal; Global War on Terrorism Service Medal; Air and Space Training Ribbon

2022
Officer Training School, U.S. Air Force
Leo Keith Thorsness Fitness Excellence Award (Flight & Squadron)

2022-2023
2LT Civil Engineer (32E), 445th Airlift Wing, U.S. Air Force Reserve, Wright-Patterson AFB
Officer in Charge - Operations/Structures
Expert Marksmanship Ribbon (Small Arms & Rifle, Bronze Star)
Air and Space Achievement Medal

2023-present
1LT Civil Engineer (32E), 932d Civil Engineer Squadron, 932d Airlift Wing, U.S. Air Force Reserve, Scott AFB
Commander, Operations
Norwegian Foot March Medalist, Silver

10/2025-04/2026
Operation Epic Fury, Al Udeid Air Base, Qatar
Operations Engineering Flight Chief
Air and Space Achievement Medal with Combat Device, Army Achievement Medal
Roles During Combat: Unit Operations Center (UCC), Officer in Charge; Emergency Operations Center (EOC), Civil Engineer Element Lead

Honors and Awards

2013
Kettering University Distinguished Alumni Award

2015
Kettering University Young Alumni Award

2015
Pacific Standard Magazine Top 30 Thinkers Under 30

2015
NSF Graduate Research Fellowship Honorable Mention

2016
Forbes 30 Under 30, Science

2016
Harvard Travellers Club Research Grantee: Characterizing Beta Oscillations During Motor Task, Annapurna Base Camp, Nepal

2017
Neuroscience Graduate Program Award for Innovative Research

2017
International Hypoxia Symposium, First Place Poster, Junior Scientist Category

2017
Lemelson-MIT Student Prize Nominee, Cure It Category

2018
Excellence in Teaching Nominee, Office of Graduate and Postgraduate Studies

2018
Gupta Family Hackathon for Health Communication, Best Presentation

2020
University of Michigan MedLaunch Mask Challenge, First Place

2025
Explorers Club, Fellow

Editorial and Review Responsibilities

Ad Hoc Manuscript Reviews

2021
Methods in Ecology and Evolution

2026
Methods in Ecology and Evolution

2026
Behavior Research Methods

Abstract Review for National and International Meetings

2021
SLEEP Meeting Abstract Reviewer

Community Service Contributions

Community Outreach & Volunteer Service

2010
FIRST Robotics, Northville Robostangs Mentor

2014
Greater Questions in Neuroscience (GQiN) Series Coordinator

2014
Neuroscience Graduate Program, Interview Weekend Chaperone

2015
Program in Biomedical Sciences Student Seminar Invited Panelist

2015
FIRST Robotics FTC, Canton Double Qualifier Official Judge

2016
UROP Student Seminar, University of Michigan Invited Speaker

2016
Genes for Good, University of Michigan Contributor

2016
Adventurers and Scientists for Conservation, SCAT Program Contributor, Torres del Paine National Park, Magallanes Region, Chile

2016
Spooky Science Day, Michigan Science Center Volunteer

2016
FEMMES After School Activities Night, Adams STEM Elementary School Volunteer

2017
Ann Arbor Health Hacks, High Altitude Happy Hour Presenter

2017
Science Olympiad, Pioneer High School Volunteer

2017
Project Healthy Schools Health Ambassador

2017
Rock Steady Boxing (Parkinson's Boxing Class) Coach/Volunteer

2018
Tappan Middle School Field Day Fun Run Volunteer

2019
Saturdays with Scientists, Michigan Science Center Volunteer

2021
Letters to a Pre-Scientist Penpal

2022
Future Engineers Judge

2022
Xplore Camp - Neural Engineering Volunteer

2023
Brain Carnival at SciFest, St. Louis Science Center Volunteer

2024
Research Statement Round Table, Office of Postdoctoral Affairs, Washington University, Invited Faculty

Washington University in St. Louis School of Medicine Committee and Administrative Service

09/2023-present
Founding Director, Neurotech Hub, Department of Neuroscience

06/2026-present
Department of Neuroscience OTM Liaison

09/2026-present
Director, Neuroscience Innovation, Department of Neuroscience

10/2026
Organizer, Host, and Moderator, Disrupt Neuroscience (live podcast event on neuroscience innovation and commercialization), Department of Neuroscience and Office of Technology Management

Membership in Professional Societies

06/2025-present
The Explorers Club, Fellow

Teaching

Courses

2016
Course: MCDB 352: Neurobiology of Sensory and Motor Systems
Role: Graduate Student Instructor
Institution: University of Michigan
Duration: Semester
Number of learners: 120

2017-2019
Course: PHYSIOL 406: Extreme Physiology, High Altitude & Hypoxia
Role: Lecturer
Institution: University of Michigan
Duration: Single Lecture, Grader
Number of learners: 25

2018
Course: BIO 222: Principles of Cellular and Molecular Neuroscience
Role: Graduate Student Instructor
Institution: University of Michigan
Duration: Semester
Number of learners: 120

2021-2022
Course: PSYCH 235: Intro to Evolution & Behavior, Evolution of Sleep
Role: Lecturer
Institution: University of Michigan

Duration: Single Lecture, Grader
Number of learners: 45

2021-2022
Course: Health Management and Data Intelligence Program at Emlyon, Space Health
Role: Lecturer
Institution: Emlyon Business School
Duration: Single Lecture (remote)
Number of learners: 30

Major External Invited Presentations, including Professorships and Lectures

2011
"3 Things: What Artificial Intelligence Can Teach Us." TEDxFlint, Flint, MI

2013
"Brain Evolution and the Ulysses Contract: Welcome to College!" Kettering University Freshman Orientation, Flint, MI

2013
"Why We Hate What We Love To Do: The Science Behind Our Changing Minds." Kensington Woods High School Professional Development Seminar, Kensington, MI

2013
"Being a Bootstrapped Engineer In Silicon Valley." Kettering University Distinguished Speaker Series, Flint, MI

2015
"Curiosity, Connections, and Value Creation: From Entrepreneur to Intrapreneur." Unleashing the Entrepreneur, Kettering University, Flint, MI

2016
"Unraveling Parkinson's Disease in the OR, Himalaya, and Space." TEDxYouth@SanDiego, Canyon Crest Academy, San Diego, CA

2017
"Beyond the Relay Towards Pathway-Specific Optogenetics in the Motor Thalamus." 3rd Annual Udall Center for Parkinson's Disease Research Symposium, Ann Arbor, MI

2020
"Stori: Using a Graph Database to Connect Disparate Topics in Research." Grakn Cosmos, London, UK

2021
"In Search of Health & Performance." Keynote, Health Management Data Intelligence Program, Emlyon Business School, France

2021
"Space Analogs: How to get an idea off the ground." Emlyon Business School, France

2021
"Space Countermeasures in a Non-traditional Mammal: Challenges, Solutions." American Association for Laboratory Animal Science, Ann Arbor, MI

Internal Presentations & Lectures at University

2015
"Loops in the Brain: Probing the Parkinsonian Motor System." University of Michigan Neuroscience Graduate Program Retreat, Detroit, MI

2015
"How The Brain Works and How We Thought Planes Would Fly." University of Michigan Neuroscience Recruiting Weekend, Ann Arbor, MI

2017
"Thalamocortical Contributions to Motor Behavior." Neuroscience Graduate Program Spring Symposium, Ann Arbor, MI

2021
"Neuroethology and the Development of Countermeasures for Astronauts." Biopsychology Colloquium, Ann Arbor, MI

2026
"Building a Business Inside an Institution." Washington University Researchers' Forum, St. Louis, MO

Mentorship & Sponsorship Record

Served as career development mentor and/or sponsor for:

2016
Mentee: Alexandra Falkenberg
Institution: University of Michigan, Department of Kinesiology
Outcome: PhD Program

2017
Mentee: Christopher Cyr
Institution: University of Michigan, Department of Neuroscience
Outcome: MD Program

2018
Mentee: Hannah Sofier
Institution: University of Michigan, Department of Computer Science
Outcome: Industry

2018
Mentee: Maximillian Wagner
Institution: University of Michigan, Department of Neuroscience
Outcome: Industry

2019
Mentee: Ashish Kamath
Institution: University of Michigan, Department of Computer Science
Outcome: Industry

2021
Mentee: Bhargavi Ravishankar
Institution: University of Michigan, Department of Electrical Engineering/Computer Science
Outcome: Industry

2025
Mentee: Chris Allen
Institution: Washington University, Department of Mechanical Engineering
Outcome: Industry

2025-present
Mentee: Jemin Kachhadiya

Institution: Washington University, Department of Neuroscience

Research

Present Intramural Grants

10/2024-10/2026
Funding agency: McDonnell Center for Systems Neuroscience
Grant number: GF0013142
PI: Bruce Carlson
Title of grant: Novel Devices for Chronic Recording of Communication Behavior and its Neural Substrates
Brief description of grant: Development of wearable recording devices for electric fish.
Role: Collaborator
Effort Support: 10% (Neurotech Hub Membership)
Total project amount awarded: $30,000

03/2025-present
Funding agency: Washington University Gap Fund / Office of Technology Management
Grant number: T-021261
PI: Matthew Gaidica
Title of grant: Hublink Gateway Manager
Brief description of grant: Business and technology development as a pathway to commercializing hublink.cloud.
Role: PI
Effort Support: 0% (funds issued for contract/goods only)
Total project amount awarded: $55,000

06/2026-07/2027
Funding agency: McDonnell Center for Systems Neuroscience
Grant number: GF0014470
PI: Matthew Gaidica
Title of grant: A Platform for Spatially Structured Ethological Behavior
Brief description of grant: Development of modular home-cage platform that transforms the cage floor into a distributed, programmable foraging environment, enabling continuous, ethologically grounded behavior in freely moving rodents.
Role: PI
Effort Support: 0% (funds support Senior Research Engineering effort, goods, and collaborators)
Total project amount awarded: $40,000

Past Extramural Funding

08/2020-02/2024
Funding agency: NASA Translational Research Institute for Space Health (TRISH), via Baylor College of Medicine (NASA Cooperative Agreement NNX16AO69A)
Grant number: P0502
PI: Matthew Gaidica (Mentor: Ben Dantzer)
Title of grant: Manipulating Sleep Architecture as an Operational Countermeasure
Brief description of grant: Postdoctoral fellowship testing non-invasive audio enhancement of slow-wave sleep as a countermeasure for spaceflight stressors, using free-living red squirrels at a high-latitude field site as a translational analog, and developing an autonomous, deployable sleep countermeasure tool.
Role: PI
Effort Support: 100%
Total project amount awarded: $230,000

10/2023-04/2024
Funding agency: Anomaly Entertainment Inc.
Grant number: GR0032178 / AW00012260
PI: Matthew Gaidica
Title of grant: APEX access and use of the Aquatic Predator Electro Xplorer for the television program Brain of Jaws
Brief description of grant: Development of novel recording tools for great white sharks.
Role: PI
Effort Support: 20%
Total project amount awarded: $65,000

Submitted Applications

2024
Funding agency: National Science Foundation (NSF)
PI: Barani Raman
Title of grant/application: Translating insect olfaction principles into practical and robust chemical sensing platforms
Role: Co-Investigator
Effort Support: 15%
Outcome: Not funded

2025
Funding agency: National Science Foundation (NSF)
PI: ShiNung Ching
Title of grant/application: CRCNS Research Proposal: Individualized model-based control of brain dynamics for cognitive enhancement
Role: Co-Investigator
Effort Support: 20%
Outcome: Not funded

2025
Funding agency: Fauna and Flora International
PI: Matthew Gaidica
Title of grant/application: Field to Cloud: ARM-based Data Collection for Wildlife Research
Role: PI
Effort Support: 20%
Outcome: Not funded

2025
Funding agency: National Institutes of Health
PI: Matthew Rosengart
Title of grant/application: Enhancing the education of post-graduates in the surgical sciences
Role: Mentor
Effort Support: 5%
Outcome: Awaiting

2026
Funding agency: Advanced Research Projects Agency for Health (ARPA-H)
Grant number: P26-02273
PI: Leo Shmuylovich
Title of grant/application: Glow-based Lymphatic Enhancement with Angiographic Mapping (GLEAM)
Role: Co-Investigator
Effort Support: 20%
Outcome: not funded; potential future pilot funding

10/2026
Funding agency: Advanced Research Projects Agency for Health (ARPA-H)
Grant number: ARPA-H-SOL-26-163
PI: Rebecca Schwarzlose
Title of grant/application: The First Year: At-home Sensory and Sleep Measures for Early Identification of Quantitative Autistic Traits in Infancy (SPECTRA TA4)
Role: Collaborator
Effort Support: 12.5%
Outcome: Not invited for full submission (11/2026)

Entrepreneurship

2008
Name of project: Resistive touchpad with interchangeable templates
Role: Inventor
Status: Provisional Patent 61/069,477

2012
Name of project: Smart Identification of Colors in an Image used to automate the Design of a Mobile Application or Product
Role: Inventor
Status: Provisional Patent 61/618,846

2016
Name of project: U.S. Patent 62/369,132. Surgical Tool for Cranial Drill Alignment in Rodents
Role: Inventor
Status: Patent pending

2017
Name of project: Automated Light Perception System (ALPS)
Role: Inventor
Status: Provisional Patent 62/532,076

2022
Name of project: An Implantable Neurophysiology Platform (University of Michigan Invention Disclosure 2022-377)
Role: Inventor

2023
Name of project: Multi-function Wireless Wearable Proximity Devices (University of Michigan Invention Disclosure 2023-456)
Role: Inventor

2024
Name of project: A method for measuring liquid volume in small tubes of up to 50mL (Washington University Invention Disclosure T-021063)
Role: Inventor

2024
Name of project: Miniature modular fused release mechanism (Washington University Invention Disclosure T-021068)
Role: Inventor

2024
Name of project: Advanced Research Cranial Hub (ARCH) Stimulator (Washington University Invention Disclosure T-021212)

Role: Inventor
Status: Patent pending

2024
Name of project: Hublink: The #1 Gateway Manager (Washington University Invention Disclosure T-021261)
Role: Inventor

2024-present
Name of project: Neurotech Hub Store products
Brief description: Hub Wheel, Body Event Analysis Module, and Juxta proximity loggers
Role: Director, Neurotech Hub

2024-present
Name of project: Hublink.cloud
Brief description: Bluetooth-to-cloud behavioral data platform supporting Hublink-compatible devices
Role: Founder

2025
Name of project: Feeding Experimental Device 4 (FED4): An in-cage 24/7 animal behavior tool (Washington University Invention Disclosure T-021255)
Role: Inventor
Status: Patent pending

2026
Name of project: FlightCap: Wireless Liquid Level and Lick Sensor Cap (Washington University Invention Disclosure T-021968)
Role: Inventor

2026
Name of project: Chronolume: a clinician-controlled app for wearable light therapy (Washington University Invention Disclosure T-022088)
Role: Inventor

2026
Name of project: ACORN: Autonomous Configurable Outdoor Replay Node (Washington University Invention Disclosure T-022186)
Role: Sole Inventor

2026
Name of project: Wearable Ultrasound Trigeminal Nerve Stimulator for Migraine Treatment (Washington University Invention Disclosure T-022177)
Role: Co-Inventor

2026
Name of project: Portable Light Canopy for the ICU (Washington University Invention Disclosure T-022211)
Role: Co-Inventor

Selected Research Platforms and Contributions

09/2023-present
Platform/contribution: Neurotech Hub
Evidence/scale: supported 60 projects across 48 laboratories and delivered more than 50 targeted training sessions since joining Washington University
Role: Founding Director

09/2023-present
Platform/contribution: Neurotech Hub open-source and web dissemination
Evidence/scale: maintains 120 open-source repositories and oversees web tools serving more than 7,000 users per month
Role: Director, Neurotech Hub

2024-present
Platform/contribution: Hublink.cloud
Evidence/scale: wireless data platform supporting more than 200,000 wireless file uploads from animal home cages
Role: Founder

Bibliography

Original, peer reviewed articles in refereed journals

1. Ellens DJ, Gaidica M, Toader A, Peng S, Shue S, John T, Bova A, Leventhal DK. An automated rat single pellet reaching system with high-speed video capture. Journal of Neuroscience Methods. 2016;271:119-127. PMID: 27450925. PMCID: PMC5003677. DOI: 10.1016/j.jneumeth.2016.07.009.
2. Schroeder KE, Irwin ZT, Gaidica M, Bentley JN, Patil PG, Mashour GA, Chestek CA. Disruption of corticocortical information transfer during ketamine anesthesia in the primate brain. NeuroImage. 2016;134:459-465.
3. Gaidica M, Clem J. Enhanced Neuronal Synchrony During Skilled Reaching at High Altitude. High Altitude Medicine & Biology. 2017;18(3):296-298.
4. Gaidica M, Hurst A, Cyr C, Leventhal DK. Distinct populations of motor thalamic neurons encode action initiation, action selection, and movement vigor. Journal of Neuroscience. 2018;38(29):6563-6573. PMID: 29934350. PMCID: PMC6052244. DOI: 10.1523/JNEUROSCI.0463-18.2018.
5. Roach RC, Hackett PH, Oelz O, Bärtsch P, Luks AM, MacInnis MJ, Baillie JK; Lake Louise AMS Score Consensus Committee (including Gaidica M, consensus committee member). The 2018 Lake Louise Acute Mountain Sickness Score. High Altitude Medicine & Biology. 2018;19(1):4-6. DOI: 10.1089/ham.2017.0164.
6. Gaidica M, Hurst A, Cyr C, Leventhal DK. Interactions between motor thalamic field potentials and single-unit spiking are correlated with behavior in rats. Frontiers in Neural Circuits. 2020;14:52.
7. Gaidica M, Dantzer B. Quantifying the autonomic response to stressors - one way to expand the definition of “stress” in animals. Integrative and Comparative Biology. 2020;60(1):113-125. PMID: 32186720. DOI: 10.1093/icb/icaa009.
8. Bova A, Gaidica M, Hurst A, Iwai Y, Hunter J, Leventhal DK. Precisely timed dopamine signals establish distinct kinematic representations of skilled movements. eLife. 2020;9:e61591. PMID: 33245045. PMCID: PMC7861618. DOI: 10.7554/eLife.61591.
9. Gaidica M, Dantzer B. An implantable neurophysiology platform: Broadening research capabilities in free-living and non-traditional animals. Frontiers in Neural Circuits. 2022;16:940989. PMID: 36213207. PMCID: PMC9537467. DOI: 10.3389/fncir.2022.940989.
10. Gaidica M, Zhang M, Dantzer B. A Wireless Wearable Ecosystem for Social Network Analysis in Free-living Animals. IEEE Sensors Letters. 2024;8(7):6006804. PMID: 38948074. PMCID: PMC11210449. DOI: 10.1109/LSENS.2024.3406328.
11. Sanders JI, Studd EK, Dantzer B, Wishart AE, Gaidica M, Ruckstuhl KE, Boutin S, Lane JE, Martinig AR. Collar? I barely know her: The utility of accelerometry in measuring personality in situ for a free-ranging wild mammal. Animal Behaviour. 2025;220:123045.

12. Cohen-Bodénès S, Malak EI, Trapani JG, Gaidica M, Militchin VA, et al. Station Holding During Rheotaxis: A Sensitive Assay of Lateral Line Function in Larval Zebrafish. Bio-protocol. 2025;15(24).
13. Murrell CL, Legaria AA, McCullough KB, Nwacha A, Nasiru MO, Alves Ferreira Dias S, Chase R, Barrett MR, Gaidica M, Hiratani N, Creed MC, Dougherty JD, Maloney SE, Kravitz AV. Sex Differences in Exploration–Exploitation Strategies During Home-Cage Decision Making. eLife. 2026;15:RP111657.

Books

1. Gaidica M. Left: A History of the Hemispheres. Self-published. 2014.

Preprints and public scholarly products

1. Gaidica M, Studd E, Wishart AE, Gonzalez W, Lane JE, McAdam AG, Boutin S, Dantzer B. Using a Homeogram to Detect Sleep in Free-living Animals. bioRxiv. 2021.
2. Gaidica M. "Deep Sleep": A Comparative Approach to Defining Meaningful Rest. Preprints. 2022.
3. Gaidica M, Gallagher A. Cerebral Seas: Profiling Brain Rhythms in Marine Apex Predators. Authorea Preprints. 2024.
4. Gaidica M. Biocosm: A Simulation Environment for Designing Energy-Constrained Ethological Sensors. bioRxiv. 2026. DOI: 10.64898/2026.05.18.725991.
5. Gaidica M, Rosengart M. Spectral and melanopic dose calibration of consumer see-through extended-reality glasses for controlled retinal photostimulation. medRxiv. 2026. DOI: 10.64898/2026.08.26.26361398.
6. Graham RD, Creed MC, Gaidica M. FLEX-DBS: a flexible wireless platform for bilateral constant-current deep brain stimulation in freely moving rodents. bioRxiv. 2026. DOI: 10.64898/2026.10.09.757775.
7. Barrett M, Chen C, Li W, Gaidica M, Wagner A, Wu J, Musiek ES, Kravitz A. Tumbly: An Open-Source Home-Cage Device for Time-Restricted Feeding in Mice. bioRxiv. 2026. DOI: 10.64898/2026.10.19.760239.
8. Gaidica M. Interpreting Acoustic Risk: Integrating Field Ethology and Laboratory Neuroscience in Rodents. Preprints.org. 2026. DOI: 10.20944/preprints202611.2187.v1.

Abstracts and Presentations

2014
Annual Neuroscience Graduate Program Retreat, Poster, Almont, MI

2014
Society for Neuroscience Annual Meeting, Poster, Washington, DC

2015
Catalyzing Advocacy in Science and Engineering, Representative, Washington, DC

2015
Global Engagement of Doctoral Education Symposium, Presenter, Tel Aviv, Israel

2015
Society for Neuroscience Annual Meeting, Poster, Chicago, IL

2016
Neuroscience and Biological Psychiatry Conference, Poster, St. Petersburg, Russia; Rackham Graduate School International Travel Grant Awardee

2016
American Neurological Association Annual Meeting, Poster, Baltimore, MD. Ellens DJ, Gaidica M, Hurst A, Leventhal DK. Precisely Timed Optogenetic Inhibition of Dopaminergic Neurons During Motor Skill Acquisition in Rats. Annals of Neurology. 2016;80:S143-S144.

2016
University of Michigan Neuroscience Day, Poster, Ann Arbor, MI

2016
International Conference on the Advancement of Neurotechnology, Poster, Ann Arbor, MI

2016
9th Annual Taubman Institute Symposium, Poster, Ann Arbor, MI

2016
NINDS Udall Centers Meeting, Poster, Bethesda, MD

2016
Society for Neuroscience Annual Meeting, Abstract, San Diego, CA

2017
International Hypoxia Symposium, Poster, Alberta, Canada; First Place Poster, Junior Scientist Category; Rackham Graduate School International Travel Grant Awardee

2017
International Conference on the Advancement of Neurotechnology, Poster, Freiburg, Germany

2017
Annual Neuroscience Graduate Program Retreat, Poster, Howell, MI

2017
Society for Neuroscience Annual Meeting, Poster, Washington, DC; Rackham Graduate School Travel Grant Awardee

2018
Society for the Neural Control of Movement Annual Meeting, Poster, Santa Fe, NM

2018
Aerospace Medical Association 89th Annual Meeting, Attendee, Dallas, TX

2019
Annual Kluane Red Squirrel Project Workshop, Presenter, Edmonton, Canada

2020
SLEEP Meeting, Attendee, Virtual

2021
NASA HRP Investigators' Workshop, Digital Presentation, Virtual

2021
Animal Behavior Society Annual Meeting, Poster, Virtual

2021
Aerospace Medicine Association Annual Meeting

2021
7th Annual International Bio-logging Symposium, Hybrid Poster, Virtual

2022
NASA HRP Investigators' Workshop, Digital Presentation, Virtual

2022
Space Medicine Research Jam, Ann Arbor, MI

2022
University of Arizona Sleep Wearables Workshop, Virtual

2022
Lunar Biology Technology Workshop, Virtual (NASA Ames)

2022
Neural Engineering Training Program Symposium, Poster, Ann Arbor, MI

2022
Society for Neuroscience Annual Meeting, Poster, Virtual

2023
NASA HRP Investigators' Workshop, Presentation, Galveston, TX

2023
NIH Brain Behavior Quantification and Synchronization Workshop, Virtual

2023
Neuroscience Retreat (Annual), Lightning Talk, St. Louis, MO

2023
Neuroscience 2023, Nanosymposium, Washington, DC

2024
INSPIRE Symposium, Poster, St. Louis, MO

2026
Neuroscience 2026, Nanosymposium (NANO04.05; co-author, presented by D. Ahmadi), Washington, DC. Ahmadi D, Zang K, Zhu X, Arora A, Sundaresan Venkatesan T, Gaidica M, Kepecs A. A GDF15-sensing danger circuit drives amotivation during chemotherapy.

2027
North Carolina Chapter of The Wildlife Society Annual Meeting, Poster (submitted; co-author, presented by C. Tranquillo), Winston-Salem, NC. Tranquillo C, Gaidica M, Petrullo L. Connecting activity, social proximity, and gut microbiome in wild gray squirrels.