Jack R. Waters

MD/PhD Student, University of Pittsburgh-Carnegie Mellon University MSTP waters.jack@medstudent.pitt.edu | 412-576-9145

Education

University of Pittsburgh Medical Scientist Training Program <i>MD</i> - University of Pittsburgh, School of Medicine <i>PhD</i> - Carnegie Mellon University, Program in Systems Neuroscience Co-advisors: Shushruth Shushruth, Matthew Smith	Pittsburgh, PA 2022-Present 2024-Present
Brown University Bachelors of Science with Honors - Cognitive Neuroscience	Providence, RI Class of 2021
New York University Tisch School of the Arts, Cinema Studies	New York, NY 2017-2018
Experience	
Graduate Research Shushruth Lab, Carnegie Mellon University	Pittsburgh, PA 2023-Present
• Investigated abstract decision-making and time perception in humans and rh	esus macaques
Research Technician/Visiting Scientist <i>Yasmine El-Shamayleh Vision Lab</i> , Columbia University	New York, NY 2021-2022
 Produced viral vectors for use in optogenetics and performed visual neurosc rhesus macaques 	ience experiments in
Undergraduate Researcher <i>Laboratory for Cognitive and Perceptual Learning</i> , Brown University	Providence, RI 2019-2021
• Assisted in fMRI, MRS, and EEG research on human visual plasticity under Takeo Watanabe	the guidance of Prof
Undergraduate Researcher <i>Amankulor Lab</i> , UPMC Hillman Cancer Center	Pittsburgh PA 2019
 Studied immune evasion and immunotherapeutic approaches to IDH mutant mouse models 	glioma using in vivo
Co-Founder ORTube	Pittsburgh, PA 2016-Present
 Designed the ORTube, a device for treating cholera in developing nations, a non-profit in 2019. Associated Grants: Wharton Innovation Fund Validation Phase Award Wharton Innovation Fund Innovation Phase Award College Alumni Society Undergraduate Research Grant Gelfman International Summer Fund College House Research Fellowship Publications and Presentations 	nd incorporated as a

Abstraction of Visual Decision-Making J.R. Waters, S. Shushruth, M. Smith

Visual Perceptual Learning of Natural Stimuli J.R. Waters, T. Watanabe

2023 Poster, University of Pittsburgh

> 2021 Poster, Brown University

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Reduction of the glutamate concentration in the ventromedial prefrontal cortex during human sleep T. Yamada, M. Tamaki, T. Barnes-Diana, S. Khan, J. Waters, T. Watanabe, Y. Sasaki

Service

Student Interest Group in Neurology <i>Coordinator</i>	Pittsburgh, PA 2022-Present
• Recruited medical students to the field of neurology throug resident support	gh organizing events with faculty and
Street Medicine at Pitt <i>Volunteer</i>	Pittsburgh, PA 2023-Present
• Provided clinical care and resource allocation to homeless downtown Pittsburgh	and unhoused populations in
Pediatrics Clerkship Student Advisory Group <i>Student Advisory Group Member</i>	Pittsburgh, PA 2024-Present
• Participated in improvement of the University of Pittsburg	h's core medical clerkship in pediatrics
Student Interviewer University of Pittsburgh MSTP	Pittsburgh, PA 2022-Present
• Interviewed applicants for admission to the medical school	l and MD/PhD program
Volunteer Omni Med	Mukono District, Uganda 2018
• Traveled to Uganda to conduct preliminary trials for use of rural medical centers and guiding health education efforts	f the ORTube while volunteering at
Uanang	

Honors

Pitt Med Professional Accolade (2022)

• Received peer accolate for commitment to neuroscience and supporting education in neurology among classmates

Honors Thesis - Visual Perceptual Learning of Natural Stimuli (2020-2021)

• Proposed development of complex natural stimuli to be used in studies of visual perceptual learning

National Sigma Xi Honors Society (2021)

- Nominated for membership of honorary scientific society for initial research achievement and having demonstrated an aptitude for research
- Magna Cum Laude (2021)

• Given to the upper fifth of Brown's graduating class

Keynote Speaker - Design to Make a Difference (2019)

Spoke to Pittsburgh students and educators about the importance of engineering education and philanthropy as a representative for ORTube

Second Place - Covestro Pittsburgh Regional Science and Engineering Fair (2017)

Awarded second place for early prototypes of the ORTube in Western Pennsylvanian science competition

Abstract, Society for Neuroscience

2021

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