

ASHLEY MANLEY

Wearable Neurotechnology & EEG Researcher
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Professional Summary

PhD candidate in cognitive neuroscience specializing in EEG biomarker validation, wearable neurotechnology, executive function, and experimental design. Experienced in cross-platform EEG validation, MATLAB/R signal processing, and translating neuroscience research into scalable applications.

Technical Skills

MATLAB, R, EEGLAB, BrainVision, Emotiv, EEG acquisition & preprocessing, signal processing, statistical analysis, experimental design, biomarker validation, wearable neurotechnology

Education

PhD in Psychology (Cognitive Neuroscience) | Northeastern University, Boston | Expected April 2027

MS in Psychology | Northeastern University, Boston | March 2026

BA in Child and Adolescent Development | California State University, San Marcos | May 2017

Professional Experience

PhD Candidate | SoundMind Collaboratory, Northeastern University | Boston, MA | 2023–Present

- Lead validation of Brain Vision and EMOTIV EEG systems to evaluate executive function biomarkers and wearable neurotechnology performance.
- Develop EEG acquisition, preprocessing, and analysis pipelines using MATLAB and EEGLAB.
- Design and execute studies of executive function and emotional modulation using wearable EEG.
- Collaborate on the integration of EMOTIV with the Portable Adaptive Rapid Testing (PART) platform to support remote cognitive assessment and synchronized EEG collection.

PhD Student | Working Memory and Plasticity Lab, University of California, Irvine | Irvine, CA | 2022–2023

- Led EEG research on audiovisual stimulation and memory consolidation in older adults using Brain Vision and wearable sleep EEG.
- Managed participant recruitment, study operations, EEG acquisition, preprocessing, and quality control.
- Mentored undergraduate researchers and designed an independent project on creativity and executive function in ADHD.

Leadership & Service

President, Psychology Graduate Student Association | Northeastern University | 2024 - 2025

- Represent graduate students and lead departmental communication, events, and professional development.

Undergraduate Research Mentor, SoundMind Collaboratory | Northeastern University | 2025–Present

- Mentor students in EEG methods, data interpretation, and scientific poster development.

R Workshop Teaching Assistant, Educational Research | UC Irvine | Winter 2023

- Co-taught R fundamentals, data visualization, statistical analysis, and troubleshooting to graduate students.

Awards

Winner, Connected Science Community Research-to-Product Pitch Competition, Northeastern University (2025)

Publications

Manley, A., Farrell, E., Seitz, R. A., Jaeggi, M. S., Munneke, J. (In Progress) Assessing the Feasibility and Validity of Emotiv Wearable EEG for Measuring Attentional Control

Manley, A., Quynh, T. D., Seitz, R. A., Jaeggi, M. S. (In Progress) Dreem On: Evaluating the Feasibility of Home-Based Wearable EEG for Sleep Assessment in Older Adults.

Scientific Presentations

Manley, A., Pahor, A., Seitz, A., Jaeggi, S. (2024). Validation of the University of California Matrix Reasoning Test Standard (UCMRTs) for Children and Adolescents. Psychonomic Society, New York, NY

Manley, A., Quynh, T., Do, J., Mander, B., Jaeggi, M. (2023). Audio-Visual Stimulation During Eyes-Closed Rest in Older Adults to Increase Memory Recall. Psychonomics, San Francisco, CA