Joshua Levitt, Sc. M.
Neuroengineer

73 Park Drive, Apt 14, Boston, MA, 02215   Josh.A.Levitt@gmail.com   Josua-Levitt.com   917-703-6876

EDUCATION

Visiting Student, Massachusetts Institute of Technology   **2023 – Present**

Ph.D Student, Biomedical Engineering, Boston University   **2019 – Present**

Laura Lewis laboratory for Imaging Brain Dynamics
- Collected and analyzed EEG and fMRI data from sleeping adults
- Conducted novel EEG-fMRI sleep neurofeedback experiments
- Trained a Recurrent Neural Network for EEG phase prediction
- Built EEG-LLAMAS, an open-source MATLAB based EEG neurofeedback platform
- Authored and contributed to scholarly literature and conferences
- 2 x Assistant teacher for Intro to Programming for Engineers at BU

Sc. M., Biomedical Engineering, Brown University   **2015-17**

Carl Saab laboratory at Center for Pain and Neural Circuits
- Collected and analyzed EEG from human subjects in acute pain
- Authored scholarly literature

B.S, Biology, Bates College, Lewiston, ME   **2009-13**

PROFESSIONAL EXPERIENCE

Clinical Research Program Coordinator, Lifespan Corporation, Providence, RI   **2017-19**

Carl Saab laboratory at the Center for Pain and Neural Circuits
- Collected EEG and accelerometer data from chronic pain patients
- Built an SVM to detect patients with chronic radiculopathy

Research Associate, Montefiore Medical Center, Bronx, NY   **2013-15**

Department of Obstetrics, Gynecology, and Women's Health

LEADERSHIP AND VOLUNTEERING

Research + Impact Lead, Nucleate - Boston Chapter   **2023 – Present**
- Collected data to map the Boston area biomedical engineering ecosystem
- Helped recruit activator participants and plan training events

2024 Neurophotonics Symposium Co-chair   **2023-24**

2022 Quantitative Biology and Physiology Symposium Co-Chair   **2022**
- Planned event and recruited presenters and keynote speakers

4x Graduate student mentor – Boston University   **2020-24**
- Helped new graduate students navigate their first year at BU

HONORS, AWARDS and ACCOMPLISHMENTS

Distinguished Biomedical Engineering Fellowship, Boston University   **2019-20**

Quantitative Biology and Physiology trainee, Boston University   **2019 – Present**

NSF research trainee: Understanding the Brain: Neurophotonics, Boston University   **2020 – Present**

Society for Neuroscience Trainee Professional Development Award recipient   **2021**

Authored and Co-authored 10 Scholarly articles   **2014 – Present**

SKILLS — EEG + fMRI collection | real-time signal processing | machine learning | MATLAB | Python