Rakibul Hasan

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Google Scholar: https://scholar.google.com/citations?authuser=2&user=YjB1QfoAAAAJ

Summary

Accomplished researcher with a strong background in biomedical engineering, cognitive neuroscience, and neural engineering. Skilled in designing and conducting behavioral and neuroimaging experiments, data analysis using MATLAB, FieldTrip, and statistical methods. Proven ability to manage research projects independently, mentor students, and publish in peer-reviewed journals. Seeking a challenging role to leverage expertise in neural engineering and contribute to cutting-edge research.

Education

2023-ongoing   **PhD** in **Biomedical Engineering**
Department of Biomedical Engineering
Case Western Reserve University
Cleveland, Ohio, USA

2014   **Master of Science** (M.S.) in **Cognitive Neuroscience**
Department of Cognitive Sciences
University of California Irvine
Irvine, California, USA

2012   **Bachelor of Engineering** (B.E.) in **Biomedical Engineering**
[Specialty**: Neural Engineering**]
Department of Biomedical Engineering
University of Minnesota Twin Cities
Minneapolis, Minnesota, USA

Research Experience

Graduate Research Assistant (August 2023 – May 2024) Case Western Reserve University, Cleveland, OH

- Conducted research on the mechanism of electric field coupling in the brain using rodent models.

Graduate Research Assistant (January 2019 – September 2020) West Virginia University, Morgantown, WV

- Performed data analysis on electrophysiology and EEG data from human subjects.

Graduate Research Assistant (September 2012 - February 2017) University of California, Irvine, CA

- Designed 6 scientific experiments using MATLAB and Psychtoolbox, conducted behavioral and neuroimaging (EEG) studies on human subjects.
- Analyzed behavioral, EEG, and fMRI data using MATLAB, statistical methods, and Brain Voyager software.
- Published 1 first-author paper in a peer-reviewed journal and presented at the Visual Sciences Society conference.
- Mentored undergraduate research assistants.

Teaching Experience

Graduate Teaching Assistant (2012 - 2017) University of California, Irvine, CA

- Assisted in teaching undergraduate courses in psychology, cognitive science, cognitive neuroscience, and brain disorders.

Technical Skills

- MATLAB, Psychtoolbox, FieldTrip
- EEG and fMRI data analysis
- Statistical and predictive modeling
- Experiment design and implementation

Achievements

- Published in the Journal of Vision (2017)
- Poster presentation at Visual Sciences Society (2016)
- Dean's List (Fall 2008, Spring 2009, Spring 2010), University of Minnesota
- Associate Dean's Fellowship, University of California, Irvine (Spring 2015)

Publication(s)

1) Hasan, R., Srinivasan, R. & Grossman, E.D. (2017). Feature-based attentional tuning during biological motion detection measured with SSVEP. *Journal of Vision* 2017; 17(9):22. doi: 10.1167/17.9.22.https://jov.arvojournals.org/article.aspx?articleid=2652578

Poster Presentation
1) SSVEP captures predictive feature-based attentional tuning for point-light biological walker detection in unattended spatial location. Rakibul Hasan, Emily D. Grossman & Ramesh Srinivasan.
Conference: Visual Sciences Society (VSS), St. Pete's Beach, Florida, 2016.

Journal review: 2

Professional associations

National Society of Professional Engineers – student member
Biomedical Engineering Society: Case Western Reserve University Student Chapter - student member
Society For Neuroscience – former member