# Osheen Jain

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Cognitive neuroscience researcher with a strong foundation in EEG, neurotechnology, and computational modeling. Experienced in designing and analyzing experiments on brain-behavior relationships, with emerging interests in social decision-making and moral cognition. Proficient in Python, MATLAB, and machine learning tools, with a growing focus on Bayesian models and interdisciplinary research. Passionate about advancing our understanding of moral behavior through data-driven approaches.

## TEACHING and WRITING EXPERIENCE

### Teaching Assistant

*TAS Centre* | Oct 2024 – Present

- Supported students with ADHD and autism by implementing individualized strategies to foster engagement, enhance focus, and promote positive learning outcomes.
- Collaborated with therapists, teachers, and parents to tailor educational approaches, ensuring alignment with neurodiverse students' needs and goals.
- Leveraged assistive technologies and innovative methods to create inclusive, sensory-friendly learning environments.

### Freelance Data Analyst and Writer

*Self-Employed* | Apr 2015 – Present

- Partnered with 20+ organizations to deliver data-driven insights and high-quality content, spanning technical blogs, white papers, and analytical reports.
- Produced 100+ deliverables, ensuring timely completion and alignment with client objectives across various industries.

## WORK EXPERIENCE

### EEG Research Assistant

*Neurolive – ERC-Funded Project* | Oct 2024 – Nov 2024

- Configured gel-based EEG systems for live neuroscience experiments in a creative context, integrating contemporary dance performances.

*Richard Wright Music Ltd* | May 2024 – June 2024

- Conducted EEG sessions during "Brainstorms: A Great Gig in the Sky," capturing neural responses to music using Emotiv headsets.

### Neurotechnology Researcher

*LiquidWeb s.r.l.* | Nov 2022 – Sep 2023

- Developed robust EEG data pipelines using Biosemi ActiveTwo systems, implementing preprocessing routines and signal optimization with Python (NumPy, Pandas, SciPy).
- Applied machine learning models (SVM, CNN) to classify high-dimensional neural data, enhancing predictive accuracy in EEG-based cognitive tasks.

## SKILLS

- **EEG Analysis:** EEGLAB, MNE Python, BioSemi ActiveTwo, EPOC X, EmotivPRO, EmotivBCI
- **Computational Modeling:** Reinforcement learning, SVM, CNN, probabilistic models, Bayesian inference (basic), decision-theoretic frameworks
- **Languages**: MATLAB, Python, MySQL, Java, BSL
- **ML Libraries**: Scikit-Learn, TensorFlow, Keras
- **Data Analysis**: Pandas, NumPy, SciPy
- **Statistics**: Jamovi, SPSS
- **Technologies**: Google Suite, Asana, Trello, Slack, GitHub, Git, BitBucket

## EDUCATION

**M.Sc. Computational Cognitive Neuroscience**
Goldsmiths College, University of London | Sep 2023

**M.A. Philosophy**
University of Delhi, New Delhi | Aug 2020

**B.E. Electronics and Communication**
Sagar Institute of Research and Technology, Bhopal | Aug 2018

## PUBLICATIONS & PROFESSIONAL DEVELOPMENT

### Research Paper

- Mushfika Sultana, **Osheen Jain**, Sebastian Halder, Ana Matran-Fernandez, Rab Nawaz, Reinhold Scherer, Ricardo Chavarriaga, José del R. Millán, Serafeim Perdikis. "Evaluating Dry EEG Technology Out of the Lab," *2024 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering (MetroXRAINE)*, St Albans, United Kingdom, 2024, pp. 752-757, doi: 10.1109/MetroXRAINE62247.2024.10797021.

### Thesis

- **Jain, O.** (2023). Investigating the Effect of Emotional Stimuli on Visual Imagery Performance in EEG-Based BCI Systems. M.Sc. Thesis, Goldsmiths College, University of London.

### Conferences & Academic Engagement

- *Volunteer – Exploring Interdisciplinary Frontiers: Cognitive Science, Computational Modeling, and AI*, University of Cambridge, UK, 9–10 May 2025
- *Volunteer* – International Neuroethics Society – *Neuroethics 2025*, Nov 2024 – Feb 2025

### Certification

- Introduction To Good Clinical Practice (GCP) eLearning | NIHR, Sep 2024
- Enhanced DBS Certificate (Current & Valid) | Feb 2024
- ABPI Code of Practice - Self-study certification (Planned completion: May 2025)
- Good Publication Practice (GPP3) Guidelines - Comprehensive review (Planned completion: May 2025)