

Max Mascini

Halifax, NS, Canada | +1 (778) 792 4467 | Mascini.Max@gmail.com

LINKS

[LinkedIn](#), [Github](#)

EDUCATION

2026 — Present	Masters of Computer Science (MSc), Dalhousie University	Halifax, NS
• Research focus on AI ethics and theory of mind in human-AI interaction		
2024	Bachelor of Science (Honours) in Neuroscience, Dalhousie University	Halifax, NS
• First-Class Honours; Dean's Scholar - cGPA: 4.01		
• Thesis: <i>Offline Classification Evaluation of a Novel SSVEP and ERP Stimulation Method</i>		
2024	Certificate In Neurotechnology & Innovation, Dalhousie University	Halifax, NS
• Completed interdisciplinary coursework in neuroscience, entrepreneurship, business strategy, and technology commercialization		
• Conducted data analysis on market research for a capstone project focused on developing an entrepreneurial startup		

EMPLOYMENT HISTORY

Jun 2024 — Present	Neurotech Programming Specialist, SURGE Innovation	Halifax, NS
• Coordinated and facilitated technical workshops and hackathons for the Dalhousie NeuroTech Club, strengthening cross-disciplinary engagement and leadership in neurotechnology education		
• Created educational resources that supported skill-building and project development		
Jun 2024 — Dec 2025	Research Assistant, Dalhousie NeuroCognitive Imaging Lab	Halifax, NS
• Conducted brain-computer interface (BCI) research, including neural signal classification using Python-based machine learning (ML) models		
• Analyzed and visualized neural data in Python and R, extracting features to inform model development		
• Developed and implemented interactive experimental paradigms in PsychoPy with real-time EEG streaming		
Apr 2023 — Sep 2023	Fundraising Team Leader, OXFAM Canada	Halifax, NS
• Led door-to-door fundraising teams, training and mentoring new fundraisers to maximize impact		
• Built rapport with potential donors and handled objections effectively to enhance donor engagement, consistently achieving high performance targets		

TEACHING, MENTORING, AND LEADERSHIP EXPERIENCE

Feb 2025 — Apr 2025	Research Supervisor, Dalhousie Integrated Science Program (DISP)	
• Supervised a DISP student team on a research project involving steady-state visually evoked potentials for brain-computer interfaces		
• Provided guidance on experimental design, data analysis, and presentation skills		
Sep 2024 — Apr 2025	Assistant Supervisor, Honours and 3 rd Year Independent Study Students	

- Supported honours and independent study students in the development and execution of their research projects
- Assisted with and provided feedback on paradigm design, data collection, and analysis
- Collaborated with primary supervisors to ensure student progress and engagement

Sep 2024 — Jun 2024

Trip Leader, Dalhousie Outdoors Society (DOS)

- Planning/coordinating diverse and accessible outdoor trips for students
- Organizing transportation, food, cost, and student safety
- Coordinating free gear rentals from the DOS gear library

PUBLICATIONS & PRESENTATIONS

May 2023

"Exploring Classification Techniques for a Novel EEG-based Bi-Hybrid BCI System" - Poster presented at the Science Atlantic Psychology Undergraduate Student Research Conference

Mount Saint Vincent University,
Halifax, NS

TECHNICAL SKILLS

Programming Languages: Python, R, SQL

Frameworks & Libraries: Scikit-learn, PyTorch, PsychoPy, MNE-Python, SciPy, Pandas, Matplotlib

Neurotechnology & Experimentation: Brain-Computer Interfaces (SSVEP, ERP), MEG/EEG data acquisition & analysis, Experimental design, Visual stimulus presentation

Statistical & Data Analysis: Hypothesis testing, Generalized linear models, Mixed-effects models, ANOVA, Repeated-measures analysis, Bootstrapping

Data Science & Machine Learning: Signal processing, Feature extraction (Fourier, CCA), Signal classification, Time-series analysis, Data visualization