

Max Mascini

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LINKS	LinkedIn , Github
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EDUCATION

2026 — Present	Masters of Computer Science (MCS), Dalhousie University <ul style="list-style-type: none">Research focus on AI ethics and theory of mind in human-AI interaction	Halifax, NS
2024	Bachelor of Science (Honours) in Neuroscience, Dalhousie University <ul style="list-style-type: none">First-Class Honours; Dean’s Scholar - cGPA: 4.01Thesis: <i>Offline Classification Evaluation of a Novel SSVEP and ERP Stimulation Method</i>	Halifax, NS
2024	Certificate In Neurotechnology & Innovation, Dalhousie University <ul style="list-style-type: none">Completed interdisciplinary coursework in neuroscience, entrepreneurship, business strategy, and technology commercializationConducted data analysis on market research for a capstone project focused on developing an entrepreneurial startup	Halifax, NS

EMPLOYMENT HISTORY

Jun 2024 — Present	Neurotech Programming Specialist, SURGE Innovation <ul style="list-style-type: none">Coordinated and facilitated technical workshops and hackathons for the Dalhousie NeuroTech Club, strengthening cross-disciplinary engagement and leadership in neurotechnology educationCreated educational resources that supported skill-building and project development	Halifax, NS
Jun 2024 — Dec 2025	Research Assistant, Dalhousie NeuroCognitive Imaging Lab <ul style="list-style-type: none">Conducted brain-computer interface (BCI) research, including neural signal classification using Python-based machine learning (ML) modelsAnalyzed and visualized neural data in Python and R, extracting features to inform model developmentDeveloped and implemented interactive experimental paradigms in PsychoPy with real-time EEG streaming	Halifax, NS
Apr 2023 — Sep 2023	Fundraising Team Leader, OXFAM Canada <ul style="list-style-type: none">Led door-to-door fundraising teams, training and mentoring new fundraisers to maximize impactBuilt rapport with potential donors and handled objections effectively to enhance donor engagement, consistently achieving high performance targets	Halifax, NS

TEACHING, MENTORING, AND LEADERSHIP EXPERIENCE

Feb 2025 — Apr 2025	Research Supervisor, Dalhousie Integrated Science Program (DISP) <ul style="list-style-type: none">Supervised a DISP student team on a research project involving steady-state visually evoked potentials for brain-computer interfacesProvided 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	<i>“Exploring Classification Techniques for a Novel EEG-based Bi-Hybrid BCI System”</i> - Poster presented at the Science Atlantic Psychology Undergraduate Student Research Conference	Mount Saint Vincent University, Halifax, NS
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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