## Emmanuelle Coutu-Nadeau, B.Sc., B.Eng.

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Education	
Master of Sciences, Psychology – Université de Montréal (GPA: 4.2 / 4.3)  Bachelor of Software Engineering – McGill University (GPA: 3.7 / 4)  Bachelor of Science, Psychology (Honours) – McGill University (GPA: 3.8 / 4)	Present ( <i>expected 08/26</i> ) 2018 – 2022 2015 – 2018
Work Experience	
<ul> <li>Product Owner &amp; Project Manager – CareSimple</li> <li>Led CHUM's research project as primary client contact; coordinated clinical and technical teams to impler remote patient monitoring (RPM) for liver transplant patients.</li> <li>Translated client needs into technical specs for a digital health platform in the Swedish market.</li> <li>Managed compliance documentation for Canadian and European health regulations.</li> <li>Prototyped KPI reporting and analytics tools (Python, SQL) to support data-driven decisions.</li> </ul>	2022 – 2025 ement
Software Developer – CareSimple  • Developed features in a web-based portal for clinicians to perform RPM (React, TypeScript).	2020 – 2022
<ul> <li>Data Science Intern – CareSimple</li> <li>Analyzed patient health data using R and Python.</li> <li>Developed a preprocessing pipeline to standardize data for artificial intelligence algorithms.</li> </ul>	2019
Research Experience	
<ul> <li>Neurosciences of Early Development Lab – CHU Ste-Justine (CRHSJ)</li> <li>Master's Thesis: AI-driven analysis of EEG biomarkers in autistic children with and without known govariants.</li> </ul>	2024 – Present enetic
<ul> <li>Led the redesign of the lab's database to improve scalability, integrity, and cross-study usability.</li> <li>Conducted pilot data analyses using Python and R (ANCOVA, SNR, HAPPE); collaborated with gene and neuropsychologists.</li> </ul>	ticists
• Performed EEG and neuropsychological assessments on children with ASD and pediatric cancer.	
<ul> <li>Marc O. Martel's Pain Lab – McGill University (MUHC)</li> <li>Honours Thesis: Association between perceived injustice and prescription opioid misuse through craving.</li> <li>Conducted structured clinical interviews, data collection, and saliva sampling.</li> </ul>	2016 – 2019 opioid
Volunteering Experience	
<ul> <li>Student Affairs Committee – UNIQUE</li> <li>Contributed to the UNIQUE Student Affairs Committee, supporting and empowering students at the section of Neuroscience and AI in Quebec.</li> </ul>	2025 - Present inter-
<ul> <li>Software Development &amp; Business Strategy Mentor – Technovation</li> <li>Mentored girls (ages 8–18) in mobile app prototyping and business plan development to address UN Su able Development Goals.</li> </ul>	2024 – Present stain-
Event Ambassador – Fondation du MAC  • Promoted for Printemps du MAC, an initiative supporting the museum through fundraising events.	2024

# **Academic Awards & Scholarships**

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<ul> <li>Neuro-AI UNIQUE Excellence Scholarship (10,000 \$)</li> </ul>	2025 - 2026
• MES Bourses de persévérance TI (3,000 \$)	2022
• Airbus Scholarship in Engineering (1,500 \$)	2021
First-class Honours	2018

### **Skills**

- Languages: Fluent in English and French (spoken and written).
- Programming & Data Analysis: Python, Java, C, MATLAB, React, TypeScript, R, SQL, Power BI, Excel, AI/ML.
- Presentations: Experience delivering client presentations using PowerPoint.
- Certifications: PSPO I, HIPAA, GDPR, Cybersecurity training, Centre for Suicide Prevention, & Leading Change in Health Informatics (John Hopkins University).

## **Peer-Reviewed Publication**

Verner, Maria MSc; Sirois, Amanda BSc; Coutu-Nadeau, Emmanuelle BSc; et al. The Association Between Perceived Injustice and Opioid Craving in Patients With Chronic Pain. Journal of Addiction Medicine, July 21, 2022.