

Emmanuelle Coutu-Nadeau

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Education

Master of Sciences, Psychology – Université de Montreal 2024 –
Bachelor of Software Engineering – McGill University (CGPA: 3.7/4) 2018 – 2022
Bachelor of Science, Psychology (Honours) – McGill University (CGPA: 3.8/4) 2015 – 2018

Scholarships & Awards

Airbus Scholarship in Engineering March 2022
MES Bourses de persévérance TI March 2022
Robot Performance Competition - McGill University November 2019

- Second place in "Design principles & methods" (ECSE 211) Robot Performance Competition

Game Competition - McGill University November 2018

- First place in "Model-based programming" (ECSE 223) Game Competition

First-class Honours May 2018

- Graduated with GPA above 3.5 from the Honours Program of Psychology

Research Experience

Neurosciences of Early Development – CHU Ste-Justine (CRHSJ) 2024 –

- **Master's thesis:** Neural Responses to ASMR: EEG Analysis and Machine Learning Predictions in Young Adults.
- EEG, saliva sampling, questionnaires, and machine learning.
- Database organization – Organizing the new MySQL database structure for Laboratoire NED

Marc O. Martel's Pain Lab – McGill University (MUHC) 2016 – 2019

- **Honour's thesis:** Association between perceived injustice and prescription opioid misuse through opioid craving.
- Structured clinical interviews, data collection, and saliva sampling.

CoVenture Lab – CHU Ste-Justine (CRHSJ) 2017 – 2018

- Effects of delaying the onset of substance use on adolescent cognitive development.
- Data entry and analysis.

Work Experience

Product Owner & Project Manager – CareSimple™ 2022 –

- Managing a dedicated development team for digital health applications in the European market.
- CHUM Research Project Management – Remote patient monitoring of liver transplant patients.
- PSPO I certification.

Software Developer – CareSimple™ 2020 – 2022

- Web development – Clinical portal for remote patient monitoring using React and TypeScript.
- HIPAA & GDPR training.

Volunteering Experience

Volunteer & Speaker – Fondation du PSNM 2024 –

- Participating in Career Day, speaking about my career path and educational journey to inspire high school girls at PSNM.
- Planning themed panel discussions featuring successful PSNM alumni now established in various professional fields.

Business strategy & Software development Mentor – Technovation 2024 –

- Mentoring young girls in developing a mobile application to solve community-level problems.
- Inspiring the next generation of women in STEM to create meaningful technological solutions.

Publications

Peer-reviewed journal article

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.

Published abstracts/conference presentations

Herrero Babiloni A *, Frimerman L, Fournier C, Coutu-Nadeau E, Ross A, Lavigne GJ, Martel MO. *Sleep quality and prescription opioid misuse: the potential mediating role of pain intensity, negative affect, and opioid craving*. Sleep Med 2019, Vol. 64, S152-153.

Frimerman L *, Fournier C, Coutu-Nadeau E, Ross A. Martel MO. *Determinants of prescription opioid craving and opioid-related hedonic feelings among patients with chronic pain prescribed opioid therapy*. The Journal of Pain 2019 Vol. 20, Issue 4, S55–S56.

Herrero Babiloni A *, Frimerman L, Fournier C, Coutu-Nadeau E, Ross A, Lavigne G, Martel MO. *Sleep quality and opioid craving among patients with chronic pain and prescribed opioid therapy: explorations of potential mediators*. 11th Congress of European Pain Federation, Valencia, Spain. (September 2019).

Herrero Babiloni A *, Frimerman L, Fournier C, Coutu-Nadeau E, Ross A, Lavigne GJ, Martel MO. *Sleep quality and prescription opioid misuse: the potential mediating role of pain intensity, negative affect, and opioid craving*. World Sleep Congress, 2019, Vancouver, BC, Canada (September 2019).

Frimerman L *, Fournier C, Coutu-Nadeau E, Ross A. Martel MO. *Determinants of prescription opioid craving and opioid-related hedonic feelings among patients with chronic pain prescribed opioid therapy*. 23rd Annual McGill Pain Day, Montreal, Quebec, Canada (January 2019).

Frimerman L *, Fournier C, Coutu-Nadeau E, Ross A. Martel MO. *Determinants of prescription opioid craving and opioid-related hedonic feelings among patients with chronic pain prescribed opioid therapy*. 38th Annual Scientific Meeting of the American Pain Society (APS), Milwaukee, WI, USA (April 2019).

Ouellet N *, Fournier C, Frimerman L, Coutu-Nadeau E, Martel MO. *Factors associated with opioid craving among patients with chronic pain prescribed long-term opioid therapy*. 14th Annual Research Day of McGill's Faculty of Dentistry, Montreal, Quebec Canada. (April 2019).

Frimerman L *, Fournier C, Coutu-Nadeau E, Ross A. Martel MO. *Determinants of Prescription Opioid Craving and Opioid-related Hedonic Feelings Among Patients with Chronic Pain Prescribed Opioid Therapy*. 19th Annual McGill Biomedical Graduate Conference, Montreal, Quebec, Canada. (March 2019).

Programming Skills

JavaScript, TypeScript, Java, Python, C, PHP, R, Assembly, Lisp, CSS, HTML, React, Angular, MySQL.

Hackathons

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| Tech Games | 2019 |
| McHacks 6 | 2018 |