

# Emma Kondrup

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## EDUCATION

### *MCGILL UNIVERSITY*

Montreal, Canada

BS.c Honours Computer Science, Current CGPA : 3.7/4.0

Relevant Coursework: Machine Learning, Modern Computer Games, Network Science.

### *“HEALTH AND LIFE SCIENCE LAW”, Graduate course at the University of Copenhagen*

Copenhagen, Denmark

Helped organize and followed the course.

### *“AI SAFETY”, Graduate course at MILA – Quebec AI Institute*

Montreal, Canada

Audited the course taught by David Krueger.

## EXPERIENCE

### *MILA – QUEBEC AI INSTITUTE*

Montreal, Canada

**Student Researcher at the Complex Data Lab** *under Prof. Reihaneh Rabbany*

May 2025 – Present

*CENTRE FOR ADVANCED STUDIES IN BIOSCIENCE INNOVATION LAW (CEBIL),  
FACULTY OF LAW,  
UNIVERSITY OF COPENHAGEN*

Copenhagen, Denmark

**Research Assistant in Biomedical & AI Law** *under Prof. Timo Minssen*

July 2024 – Present

*CENTRE FOR GENOMICS AND POLICY (CGP),  
VICTOR PHILLIP DAHDALEH INSTITUTE OF GENOMIC MEDICINE,  
MCGILL UNIVERSITY*

Montreal, Canada

**Research Assistant in Genomics, Technology & Health Law** *under Prof. Yann Joly*

December 2022 – August 2024

*GENETIC DISCRIMINATION OBSERVATORY (GDO)*

Montreal, Canada

**Research Assistant in Genetic Discrimination** *under Prof. Yann Joly*

December 2022 – August 2024

*SOFTWARE ENGINEERING & FORMAL METHODS RESEARCH GROUP,  
DEPARTMENT OF COMPUTER SCIENCE (DIKU),  
UNIVERSITY OF COPENHAGEN*

Copenhagen, Denmark

**Research Intern in Individualized Care and AI Ethics** *under Prof. Boris Düdder*

May - June 2023

*CENTRE FOR RESEARCH IN COGNITION AND NEUROSCIENCES,  
UNIVERSITÉ LIBRE DE BRUXELLES (ULB)*

Brussels, Belgium

**Research Intern in Cognitive Language Learning** *under Prof. Fabienne Chéetail*

February 2020

## TALKS

### *CONFERENCE OF MCGILL'S EPIC PROGRAMMING LANGUAGE SYSTEMS*

Montreal, Canada

**Honours Thesis Presentation**

April 2025

« Instant-Curry: a Boundless Proof Auto-Grader for teaching Functional Programming Theory »

## **MCGILL UNIVERSITY**

### **Workshop Leader**

« Python Libraries for Machine Learning » (McGill AI Society's 2025 Hackathon).

Montreal, Canada

February 2025

## **UNIVERSITÉ DE LAVAL**

### **Guest Lecturer**

« Enjeux éthiques, sociaux et légaux en médecine génétique de précision » (MMO-7031, bioethics microcapsule).

Montreal, Canada

Fall 2024

## **GENETIC DISCRIMINATION OBSERVATORY'S 4<sup>TH</sup> ANNUAL MEETING**

### **Organizer of international scientific conference and Speaker**

« The song remains the same? A comparative assessment of Canadian life insurance application forms post-GNDA »

Panamá City, Panamá

December 2023

## **PUBLICATIONS**

### **"INFORMED CONSENT, REDEFINED:**

#### **HOW AI AND BIG DATA ARE CHANGING THE RULES"**

Short piece on informed medical consent and biomedical ethics in the AI era.

[Harvard's Bill of Health](#)

2025

### **"THE KEY FEATURES OF A GENETIC NONDISCRIMINATION POLICY: A DELPHI CONSENSUS STATEMENT"**

Collaborative research project guiding genetic non-discrimination policymaking.

[JAMA Network Open](#)

2024

### **"THE ETHICAL ISSUES ASSOCIATED WITH THE USE OF GENETIC ANCESTRY IN GENOMICS RESEARCH: A MIXED-METHODS SYSTEMATIC LITERATURE REVIEW"**

Mixed-method review synthesizing the ethical landscape in genomics research involving Genetic Ancestry.

Published by the Canadian Government's Social Sciences & Humanities Research Council ([SSHRC](#)),  
and as a [thesis](#) by the CGP.

[SSHRC](#)

2024

## **PUBLIC OPINION SURVEY ON TELEMEDICINE CARE DELIVERY IN QUEBEC**

### **For the Ministry of Health and Social Services of Quebec**

Research project in collaboration with the *Québec Ministère de la Santé et des Services Sociaux*, MSSS,

the *Réseau Québécois de la Télésanté*, CdP RQT, and *McGill University Health Centre*, MUHC, on improving telehealth care.

2023

### **"STILL USING GENETIC DATA? A COMPARATIVE ASSESSMENT ON CANADIAN LIFE INSURANCE APPLICATION FORMS POST-GNDA"**

Research paper on the impact of the GNDA on insurers' practices and the potential for Genetic Discrimination.

[Facets](#)

2023

## **EXTRACURRICULARS, GROUPS & CERTIFICATIONS**

## **IOP PEER REVIEW EXCELLENCE COURSE**

Training Graduate (see [certificate](#))

2025

## **MCGILL AI SOCIETY**

Technical Project Manager & Mentor, Technical Judge, and at our Hackathons

Montreal, Canada

May 2024 - Present

## **GLOBAL ALLIANCE FOR GENOMICS AND HEALTH (GA4GH)**

**Member** of the AI and ML Research Workstream (REWS)

February 2024 – Present

**Member** of the Genetic Discrimination REWS

February 2024 – Present

## **MCGILL BIOMECHANICS CLUB**

**Research Member**

Montreal, Canada

2022 - 2023

## **MEDIA**

### **USBEK & RICA**

Interviewed and quoted in the 43th edition on Genetic Discrimination.

[Online](#) & paper distribution, 2024

### **PHYS.ORG**

Press release on the 2023 “Still using Genetic Data?” article.

[Online](#), 2023

### **MCGILL NEWSROOM**

Press release on the 2023 “Still using Genetic Data?” article.

[Online](#), 2023

## **PROJECTS**

*\* = report & code available upon request – others available on GitHub*

### **A HYBRID SELF-SUPERVISED APPROACH TO OPTIMIZING PAPER RECOMMENDATION SYSTEMS**

Graph-based Neural Network Optimization

\* Winter 2025

### **INSTANT-CURRY:**

#### **AN OCAML EDUCATIONAL PROOF ASSISTANT**

React-based induction proof auto-grader, *under the supervision of Prof. Jacob Errington*

\* Winter 2025

### **AMERICAN SIGN LANGUAGE TRANSLATOR**

Multi-layer Perceptron & Convolutional Neural Network

2024

### **FROGGER**

Hierarchical Task Network agent game inspired by *Frogger* (Konami, 1981)

2024

### **HACKATHONS**

CodeJam, *McGill University*

2023 & 2024

HackHarvard, *Harvard University*

2023

## **SKILLS**

### **Technical**

- **Web development:** HTML, CSS, JavaScript (XML), React, Supabase, PostgreSQL, D3.js.
- **Game development:** Unity, **game design:** Blender (beginner), Adobe Creative Suite (advanced).
- **ML programming and other languages:** Python, Java, OCaml (and OCaml to JS Bytecode transpiling with Js\_of\_OCaml), MIPS Assembly, C(++/#).

### **Languages**

English, French, Danish, Spanish (all professional fluency or above)