OLIVIER CÔTÉ

Curriculum vitae

CONTACT INFORMATION

- Québec, QC, Canada
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- Olicoside

SKILLS	_
R	7 years +
Python	2 years +
LATEX	5 years +

LANGUAGES

French Mother tongue **English** Advanced

EDUCATION

PhD in Actuarial Science (GPA: 4.17/4.33)

Université Laval

My thesis is on fairness in insurance in collaboration with one of the largest P&C insurer in Canada. I am supervised by Prof. Marie-Pier Côté (Université Laval) and Prof. Arthur Charpentier (Université du Québec à Montréal).

Master's degree in Actuarial Science (GPA: 4.24/4.33)

2021 - 2023

2023 -

Université Laval *Fast-track to the PhD.

Bachelor's degree in Actuarial Science (GPA: 4.17/4.33)

2018 - 2021

2015 - 2017

Université Laval

Natural Sciences

Cégep de Lévis

PROFESSIONAL EXAMS

Online Course 1 **Casualty Actuarial Society**

2022

MAS-I, MAS-II and Exam 5

Casualty Actuarial Society

Credit for Exam FM and Exam IFM **Canadian Institute of Actuaries**

2019 - 2020

2020 - 2022

Exam P **Society of Actuaries** 2019

PUBLICATIONS

Côté, M.-P., Côté, O., and Charpentier, A. (2024). Selection bias in insurance: why portfolio-specific fairness fails to extend market-wide. Available at SSRN 5018749

Côté, O., Côté, M.-P., and Charpentier, A. (2024). A fair price to pay: exploiting causal graphs for fairness in insurance. Available at SSRN 4709243

OTHER EDUCATION

Let's talk about race and collective responsibility Canadian Statistical Sciences Institute	2024
Acting as a sentinel for the prevention of suicide Centre de prévention du suicide du Québec workshop	2023
Addressing Conflicts Related to Bias, Privilege, and Identity in the STEM Fields CANSSI and Academic Impressions workshop	2022

WORK EXPERIENCES

Course lecturer

Université Laval

2022 - 2023

- · Linear Models in Actuarial Science (mandatory undergraduate course, 3 credits)
 - Fall 2022, 88 students enrolled
- · Statistical Learning in Actuarial Science (mandatory undergraduate course, 3 credits)
 - Winter 2023, 54 students enrolled
- *Awards included: Faculty of Science and Engineering Teaching Star (2022-2023).

American football coach

2019 - present

Falcons of Cégep de Lévis

American football coach for different teams since 2012 (10 years). I am coaching collegiate D2 for Cégep de Lévis since 2019 :

- Tight ends and Fullbacks coach (2019-present)
- Supervisor for a bachelor's degree intern in sports intervention (2023)
- *Awards included: Coaching Staff of the year 2023 and 2024. Coaching Staff Sportsmanship Award 2022 (D1) and 2023 (D2).

Teaching assistant

2019 - 2024

Université Laval

Teaching assistants on several occasions:

- Evaluator for actuarial student internships (1 time)
- · Probabilistic Analysis of Actuarial Risks (3 times)
- Statistical Learning in Actuarial Science (5 times)
- · Linear Models in Actuarial Science (1 time)

Actuarial intern 2019 - 2021

Desjardins General Insurance Group

Intern for Property Ratemaking (2019), Business analysis (2020 and 2021), and Research (2021).

Compilation: November 15, 2024

SCHOLARSHIPS AND AWARDS

Hickman Scholars Program

2024

Society of Actuaries

A highly competitive international scholarship that amounts to 20 000 USD per year (not guaranteed).

Doctoral Training Scholarships

2024

Fonds de recherche du québec (Nature et techologies)

This competitive scholarship that amounts to 100 000\$ on four years.

Project partnership fund

2024

MITACS

This fund was negociated with an industrial partner that amounts to 84 000\$ on three years.

ESSOR graduate studies Scholarship

2023

Pierre Viger Family

This competitive scholarship based on leadership, and research potential amounts to 30 000\$ on three years.

Doctorate attraction grant Florent Toureille

2023

Chaire d'actuariat de l'Université Laval

This competitive scholarship based on leadership and excellence amounts to 30 000\$ on three years.

Leadership and Engagement Scholarship

2023

Université Laval

This competitive sports leadership scholarship amounts to 30 000\$ on three years.

Charles Brindamour Graduate Scholarship for Excellence

2023

Charles Brindamour (Intact CEO)

Competitive scholarship based on excellence amounts to \$10 000 CAD.

François-Laviolette Scholarship

2022

François-Laviolette Scholarship fund

Competitive scholarship to promoting the development of responsible AI. This award amounts to \$7 500 CAD.

Grant of attraction to the Master's

2021

Chaire d'actuariat de l'Université Laval

Grant recognizing the research potential for future Master's thesis students, amount of \$15,000 CAD.

CAS Trust Scholarship

2021

Casualty Actuarial Society

A highly competitive international scholarship competition that amounts to \$2 500 USD.

Alexander-Graham-Bell Scholarship

2021

Natural Sciences and Engineering Research Council

Competition for the 2021-2022 cohort of graduate scholarships that amounts to \$17 500 CAD.

Lieutenant-Governor's Medal

2018

Cégep de Lévis

Awarded to a student whose involvement and academic results are distinguishable.

SCIENTIFIC COMMUNICATIONS

Perspective causale sur les discriminations dans les modèles prédictifs en assurance l'Institut intelligence et données Guest presenter to over 100 people from academia. (Audience: academics)
A Fair price to pay: exploiting causal graphs for fairness in insurance 27th International Congress on Insurance: Mathematics and Economics Academic presentation in Chicago, IL, United States (Audience: academics)
A Fair price to pay: exploiting causal graphs for fairness in insurance Workshop on fairness and discrimination in insurance Guest presenter to over 60 people from academia, practitionners and regulators. (Audience: general)
Perspective causale sur la discrimination indirecte en assurance générale Autorité des marchés financiers Presentation to decision-makers at Québec's financial autority. (Audience: decision-makers)
The Fairness in Insurance Enigma: Exploring the Maze of Regulation 7th Ontario-Québec Workshop in Insurance Mathematics Poster in an event where over 70 academics were present. (Audience: academics)
Équité et discrimination en assurance générales Desjardins groupe assurances générales Presentation to ≈ 40 actuaries and data scientists (Audience: End-users)
Équité et discrimination en assurance générales Intact Financial Corporation Presentation to CEO, CLO and CDO of Intact Financial Corporation. (Audience: decision-makers)
Causal inference and Fairness in Insurance Pricing Insurance Data Science Conference Presenter for Insurance Data Science Conference Insurance
Équité et discrimination en assurance générales 2023 Desjardins groupe assurances générales Presentation to ≈ 40 actuaries (Audience: end-users)
Fairness in Insurance : Overview of discrimination-free models Quantact Summerday 2022 Guest presenter in Concordia University. (Audience: academics)
Équité en assurance : revue des modèles non discriminatoires Workshop on Fairness and Discrimination in Insurance Guest presenter to over 50 people from academia and industry (Audience: general)
PUBLIC ENGAGEMENT AND OUTREACH
Perspective causale sur la discrimination indirecte en assurance générale Institut Intelligence et données 4th research competition on data intelligence. ≈ 50 graduate students (Audience: general)
Perspective causale sur la discrimination indirecte en assurance générale Institut de valorisation des données I presented a my research during IVADO Digital Future Day 2024. Over 250 people. (Audience: general)
Discrimination injustifiée en assurance générale: une perspective causale Faculty of Science and Engineering Presentation during the Research Day in Science and Engineering (Audience: General)

2023 L'IA pour calculer le prix de votre assurance auto: poétique ou pas éthique? **Big Data Research Center** Presentation during the event lightning talks 180 (Audience: General) *Awards included: Public's choice award 2023 Artificial intelligence to prevent unfair discrimination in auto insurance **IVADO** I authored an 800-word scientific communication article. (Audience: General) L'avenir à travers une boule de cristal mathématique : Le travail d'un actuaire 2023-2024 Cégep de Lévis Guest presenter for CEGEP students willing to learn more about our profession. (Audience: Students) How to improve fairness in insurance? Towards more responsible pricing 2022 Actulab 2022 Problem-solving workshops. (Audience: End-users) *Awards included: Coup de coeur Entrepreunariat ULaval award (1000 CAD) Gala of Excellence 2022 Pointe-Lévy High School Guest of honor for the Student-Athlete Excellence Gala. (Audience: Students) COMMITTEES Actuarial Science Graduate Program Committee of Université Laval 2022 - present **Voting member of the Committee** Big Data Research Center of Université Laval 2022 - present **Student voting member of the Committee** Actuarial Science Student Investment Fund of Université Laval 2021 - present Voting member of the committee Actuarial Undergraduate Student Association of Université Laval 2020 - 2021 **Vice President of Finance** RESEARCH AFFILIATIONS Institut Intelligence et Données 2021 - present Université Laval **Big Data Research Center** 2021 - present Université Laval Quantact research laboratory 2021 - present Université de Montréal Centre de recherches mathématiques 2021 - present Université de Montréal OTHER Actuarial School representative at the open house 2022 - 2023

• Winter 2023 (\approx 30 visits from students accompanied by their parents)

• Fall 2022 (\approx 50 visits from students accompanied by their parents)

Faculty of Science and Engineering