

David Beauchemin

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🔗 See GitHub ↗*

🌐 See profile ↗*

Education

2020 –



Doctor of Philosophy, Computer Science | Machine Learning | Natural Language Processing

Laval University

GRAIL - Group for Research in Artificial Intelligence of Laval University ↗*

2018 – 2020



Master's degree in Computer Science | Machine Learning | Natural Language Processing

Laval University

GRAIL - Group for Research in Artificial Intelligence of Laval University ↗*

Thesis subject: *Détection de doublons parmi des informations non structurées provenant de sources de données externes*

2015 – 2018



Bachelor's degree in actuarial sciences

Laval University

Experiences

Professional

2019 –



Applied AI Researcher in Natural Language Processing

Baseline

Applied AI research for clients & specialized formation in AI

2019 – 2021



Developer

Poutyne ↗*

Feature developement

2019 –



Founder, Researcher, and Interviewer

OpenLayer podcast ↗*

AI content creation

2018 –



Event planning

Meetup Machine Learning Québec

Co-organization of events in Québec city

2019 – 2020



AI scientist

Vooban

Technical advisor in artificial intelligence

Teaching

2022 –



Lecturer

Laval University

Advance Databases

2016 – 2022



Teaching Assistant

Laval University, École d'actuariat

Introduction à l'actuariat I, Gestion du risque financier I, Analyse et traitement collectif du risque, Informatique pour actuaire, Méthodes numériques en actuariat, Mathématiques actuarielles IARD II, Modèles linéaires en actuariat, Programmation avec R pour l'analyse de données

2019 – 2020



Teaching Assistant

Laval University, BDRC - Big Data Research Center

Winter school in machine learning

Research

2020 – 2022



Research Assistant

Laval University, IID - Institute Intelligence and Data

Female Workers Facing the Challenge of Digital Transformation: A Case Study in the Insurance Sector

Christian Gagné, Future skills centre

2020



Research Assistant

Laval University, *École d'actuariat*

Plateforme libre de validation et d'étalonnage de prévisions financières et actuarielles

Vincent Goulet, Laval University actuarial science research chair

2019



Research Assistant

Laval University, GRAIL - Group for Research in Artificial Intelligence of Laval University

Information gathering using external unstructured data sources

Luc Lamontagne, NSERC/Intact Financial Corporation Industrial Research Chair in Machine Learning for Insurance

2019



Research Assistant

Laval University, GRAIL - Group for Research in Artificial Intelligence of Laval University

Learning taxonomy of professional skills

Luc Lamontagne, ENGAGE project

2018



Research Assistant

Laval University, *École d'actuariat*

Intergenerational equity: metrics for conditional indexation in pension plans

Louis Adam, Laval University actuarial science research chair

2018



Research Assistant

Laval University, GRAIL - Group for Research in Artificial Intelligence of Laval University

Weighted bootstrapping method for word relation extraction

Luc Lamontagne

Publications





Article

- 2022 David Beauchemin and Marie-Claire Monty. La discrimination en intelligence artificielle est-elle suffisamment encadrée *. 2022. hal-03736828v2
- 2022 Vincent Primpied, David Beauchemin and Richard Khoury. Quantifying French Document Complexity *. Proceedings of the Canadian Conference on Artificial Intelligence. <https://doi.org/10.21428/594757db.8b7cd94b>
- 2022 David Beauchemin, Julien Laumonier, Yvan Le Ster, Marouane Yassine. "FIJO": a French Insurance Soft Skill Detection Dataset *. Proceedings of the Canadian Conference on Artificial Intelligence. <https://doi.org/10.21428/594757db.858dd91f>
- 2021 Marouane Yassine, David Beauchemin, François Laviolette and Luc Lamontagne. Multinational Address Parsing: A Zero-Shot Evaluation *. International Journal of Information Science and Technology, [S.l.], v.6, n.3, p.40 - 50, sep. 2022. ISSN 2550-5114
- 2020 David Beauchemin, Nicolas Garneau, Eve Gaumond, Pierre-Luc Déziel, Richard Khoury and Luc Lamontagne. *Generating Intelligible Plumitifs Summaries: Use Case Application with Ethical Considerations* *. The 13th International Conference on Natural Language Generation.
- 2020 Marouane Yassine, David Beauchemin, François Laviolette and Luc Lamontagne. *Leveraging Subword Embeddings for Multinational Address Parsing* *. IEEE CiSt'20, MNLP.
- 2019 Nicolas Garneau, Mathieu Godbout, David Beauchemin, Audrey Durand and Luc Lamontagne. *A Robust Self-Learning Method for Fully Unsupervised Cross-Lingual Mappings of Word Embeddings: Making the Method Robustly Reproducible as Well* *. REPORLANG@LREC2020.

Other publication

- 2017 David Beauchemin and Vincent Goulet *Typesetting actuarial symbols easily and consistently with actuarialsymbol and actuarialangle* *

Packages

2020	Marouane Yassine et David Beauchemin <i>Deepparse: A state-of-the-art deep learning multinational addresses parser</i>  *
2019	David Beauchemin <i>Notif: The notification package for every python project</i>  *
2017	Simon-Pierre Gadoury and David Beauchemin <i>nCopula: Hierarchical Archimedean Copulas Through Multivariate Compound Distributions</i>  *
2017	Vincent Goulet and David Beauchemin <i>actuarialsymbol - Actuarial notation with L^AT_EX</i>  *

Funding and Scholarships

2022 – 2025	Research Grant <i>Fonds de recherche du Québec - Nature and technologies</i>
2020 –	Research Grant <i>Forage de données d'assurance : techniques, éthiques, et sécurité</i>
2020	Entrance Scholarship Doctoral Entrance Scholarship
2019 – 2020	Research Grant NSERC/Intact Financial Corporation Industrial Research Chair in Machine Learning for Insurance Software engineering development of Poutyne deep learning framework
2019	Research Grant NSERC/Intact Financial Corporation Industrial Research Chair in Machine Learning for Insurance Information gathering using external data sources
2018	Gaston Paradis Excellence Award Laval University Social involvement
2018	Yves-Roy Award Laval University Best software engineering term project