

David Beauchemin

✉ david.beauchemin.5@ulaval.ca

☎ (514) 250-3616

🐙 See GitHub

🌐 See profile

Fluent in 🇫🇷 git L^AT_EX 🐍

Familiar in 📄 C++ Bash/ZSH

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 –



Developer

Poutyne

Feature developement

2019 –



Founder, Researcher, and Interviewer

OpenLayer podcast

AI content creation

2018 –



Event planning

Meetup Machine Learning Quebec

Co-organization of events in Quebec city

2019 – 2020



AI scientist

Vooban

Technical advisor in artificial intelligence

Teaching

2016 –



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 –

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

- 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

- 2018 David Beauchemin *Détection de doublons parmi des informations non structurées provenant de sources de données différentes*, Master Thesis
- 2017 David Beauchemin and Vincent Goulet *Typesetting actuarial symbols easily and consistently with actuarialsymbol and actuarialangle*

Packages

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

Communications

Workshops

- 2019 *Les tests automatisés en R*
R à Québec
- 2019 *Extraction d'information à partir du Web*
Actulab
- 2019 *Atelier pratique en git*
Meetup Machine Learning Quebec
- 2017 *Formation d'introduction à R*
R à Québec
- 2017 **R & Markdown**
École d'actuariat

Presentations

- 2020 – 2021 *La reproductibilité en apprentissage automatique*
Webinaires de l'IID & bootcamp de l'IID
Laval University, Canada
- 2020 **Detection of Duplicates Among Non-structured Data From Different Data Sources**
Séminaires IID
Université Laval, Canada
- 2020 **Intelligibility of digital court records: the criminal docket experience**
Cyberjustice laboratory
- 2020 *Détection de doublons parmi des informations non structurées provenant de sources de données externes*
Intact scientific workshop
Laval University, Canada
- 2019 *Bonnes pratiques & git*
IFT-6010
Laval University, Canada
- 2019 *Assurance Qualité, calcul scientifique & R*
R à Québec & CLESSN
Laval University, Canada
- 2019 **Information gathering using external unstructured data sources**
Intact scientific workshop
Laval University, Canada
- 2019 *Classification de doublons de risques commerciaux*
Intact scientific workshop
Laval University, Canada
- 2019 *Introduction à Scikit-learn*
Summer school of the Group for Research in Artificial Intelligence of Laval University interns
Laval University, Canada
- 2018 *Système de gestion des bénévoles Agapè*
GLO-7035
Laval University, Canada
- 2017 *Où sont les clients que nous ciblons?*
Actulab
Laval University, Canada

Blog Article

- 2020 **Training a Recurrent Neural Network (RNN) Using PyTorch**
.Layer

Funding and Scholarships

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

Award and Distinctions

2016 – 2018	Gala for the student excellence AESGUL (Association des Étudiants en Sciences et Génie de l'Université Laval) Social involvement
-------------	---

Community Involvement


Committee

2020 –	R à Québec Organization Committee President of organization of the workshop sessions Laval University, Canada
2020 –	Editorial Blog Committee President .Layer
2020 –	Committee Data Universal Tool Development President .Layer
2020	Co-design AI Prospective Workshop Participant IOSIAIDT - International Observatory on the Societal Impacts of Artificial Intelligence and Digital Technology
2019 – 2020	Committee for the improvement of teaching evaluations Participant Faculty of Science and Engineering, Laval University
2018	Organisational committee for Machine Learning in Insurance Week Participant Meetup Machine Learning Quebec



Jury

2018 – 2020	Member of the Jury My assignment in 180 seconds <i>École d'actuariat</i> , Laval University
2019 – 2020	Member of the Jury Presentation of the assignment Department of Computer Science and Software Engineering, Laval University

Cooperative

2020 – 	Baseline Chairman of the Board of Directors of Baseline, a worker cooperative in artificial intelligence Quebec, Canada
---	--

Non-Profit Associations

2021 – 	.Layer President Quebec, Canada
2019 – 2021 	.Layer Vice-president of business development Quebec, Canada
2016 – 2018	AÉACT (Association des Étudiants en Actuariat de l'Université Laval) Laval University, Canada

Podcast

2020 –	IA & café Invited co-host of the podcast <i>IA & café</i>
--------	---