

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

2020 –



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 Québec

Co-organization of events in Québec 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, <i>École d'actuariat</i> <i>Plateforme libre de validation et d'étalonnage de prévisions financières et actuarielles</i> Vincent Goulet, Laval University actuarial science research chair
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
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, <i>École d'actuariat</i> 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

2019	Nicolas Garneau, Mathieu Godbout, David Beauchemin, Audrey Durand and Luc Lamontagne. <i>A Robust Self-Learning Method for Fully Unsupervised Cross-Lingual Mappings of Word Embeddings: Making the Method Robustly Reproducible as Well</i> . REPORLANG@LREC2020.
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Other publication

2017	David Beauchemin and Vincent Goulet <i>Typesetting actuarial symbols easily and consistently with actuarialsymbol and actuarialangle</i>
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Packages

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>

Communications

Workshops

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

Presentations

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| 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 |

Funding and Scholarships

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
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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 –	Member of the Jury My assignment in 180 seconds <i>École d'actuariat</i> , Laval University
2019 –	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

2019 –



.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 *IA & café*