David Beauchemin

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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

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 LaTeX*

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   ***La reproductibilité en apprentissage automatique***
Webinaires 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** *Forage de données d'assurance : techniques, éthiques, et sécurité*
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 –	**Member of the Jury** My assignment in 180 seconds *École d'actuariat*, 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*