David Beauchemin

✉ david.beauchemin@baseline.quebec
📞 (514) 250-3616
○ See GitHub ↗*
in See profile ↗*

Education

2020 –	**Doctor of Philosophy, Computer Science	Machine Learning	Natural Language Processing**
UNIVERSITÉ LAVAL	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**
UNIVERSITÉ LAVAL	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**
UNIVERSITÉ LAVAL	Laval University

Experiences

Professional

2019 –	**Applied AI Researcher in Natural Language Processing**
B	Baseline
	Applied AI research for clients & specialized formation in AI
2019 –	**Developer**
Poutyne	Poutyne ↗*
	Feature developement
2019 –	**Founder, Researcher, and Interviewer**
Open Layer	OpenLayer podcast ↗*
	AI content creation
2018 –	**Event planning**
Meetup Machine Learning Québec	Meetup Machine Learning Quebec
	Co-organization of events in Quebec city
2019 – 2020	**AI scientist**
V	Vooban
	Technical advisor in artificial intelligence

Teaching

2016 –	**Teaching Assistant**
UNIVERSITÉ LAVAL	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**
UNIVERSITÉ LAVAL	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* 🔗*