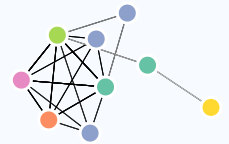


FRANCIS DUVAL

I have made visualizations viewed by hundreds of thousands of people¹, sped up query times for 25 terabytes of data by an average of 4,800 times², and built packages for R³ that let you do magic⁴.



ÉDUCATION

- Présent
|
2019
- **Candidat au doctorat en actuariat**
GPA: 4.15/4.30
📍 Université du Québec à Montréal
 - Texte
- 2018
|
2017
- **M.Sc. Actuariat**
GPA: 4.10/4.30
📍 Université du Québec à Montréal
 - Mon mémoire de recherche portait
- 2016
|
2014
- **B.Sc. Actuariat**
GPA: 4.03/4.30
📍 Université du Québec à Montréal
 - Semestre à l'étranger à l'Institut de Science Financière et d'Assurance, Université Claude-Bernard Lyon I

RESEARCH EXPERIENCE

- 2014
|
2013
- **Undergraduate Researcher**
Bentil Laboratory
📍 University of Vermont
 - Developed mathematical model to predict the transport of sulfur through the environment with applications in waste cleanup.

EXPÉRIENCE

- Présent
|
2022
- **Co-organisateur**
Compétition montréalaise en science des données
 - Incorporated d3.js to the company's main software platform.

SELECTED DATA SCIENCE WRITING

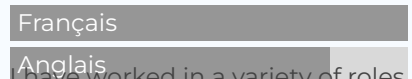
CONTACT

✉ francisduval37@gmail.com
🐙 github.com/francisduval
in [linkedin.com/in/francis-duval-24a469120/](https://www.linkedin.com/in/francis-duval-24a469120/)

COMPÉTENCES TECHNIQUES



LANGUES



I have worked in a variety of roles ranging from journalist to software engineer to data scientist. I like collaborative environments where I can learn from my peers with the R package [pagedown](#).

The source code is available [on github.com/nstrayer/cv](https://github.com/nstrayer/cv).

Last updated on 2023-02-18.

I regularly blog about data science and visualization on my blog [LiveFreeOrDichotomize](#).⁵

2018

- **Classifying physical activity from smartphone data⁶**
RStudio Tensorflow Blog
 - Walk through of training a convolutional neural network to achieve state of the art recognition of activities from accelerometer data.
 - Contracted article.



PUBLICATIONS

2023
|
2023

- **Enhancing claim classification with feature extraction from anomaly-detection-derived routine and peculiarity profiles**
Journal of Risk and Insurance
 - Coauteurs: Jean-Philippe Boucher et Mathieu Pigeon
 - Lien: doi.org/10.1111/jori.12418

2022
|
2022

- **How Much Telematics Information Do Insurers Need for Claim Classification?**
North American Actuarial Journal
 - Coauteurs: Jean-Philippe Boucher et Mathieu Pigeon
 - Lien: doi.org/10.1080/10920277.2021.2022499

2019
|
2019

- **Individual Loss Reserving Using a Gradient Boosting-Based Approach**
Risks
 - Coauteur: Mathieu Pigeon
 - Lien: doi.org/10.3390/risks7030079



CONFÉRENCES

2020

- **Javascript for Shiny Users**
RStudio::conf 2020
 - Served as TA for two day workshop on how to leverage Javascript in Shiny applications
 - Lectured on using R2D3 package to build interactive visualizations.⁷

I am passionate about education. I believe that no topic is too complex if the teacher is empathetic and willing to think about new methods of approaching task.