

# Audrey-Anne Guindon

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Canadian Citizen; bilingual in French and English

## EDUCATION

### HEC Montréal

Master of Science (MSc), Data Science and Business Analytics

Thesis: “Deep Learning for Recommendation Systems”

Supervisor: Laurent Charlin

GPA: 3.9/4.3

Montreal, Quebec

2019–Present

### University Of Ottawa

Honours Bachelor of Commerce, Management Information Systems  
and Analytics

GPA: 8.7/10

Ottawa, Ontario

2015–2019

### University Of Ottawa

Honours Bachelor’s of Art with specialization in English

GPA: 7.6/10

Ottawa, Ontario

2014–2015

## EXPERIENCE

### Research Assistant

Department of Decision Sciences, HEC Montréal

- Developing data analytics methods for travel time estimation in urban road networks.
- Conducting experiments using simulations to generate traffic data using the microscopic traffic simulator SUMO.
- Co-authoring an R package and accompanying statistics paper to implement a hidden Markov model for travel time estimation.

Sep. 2019–Present

### Data Science Intern

Shipping Algorithms, Shopify

- Delivered data analytics and developed machine learning models to support Shopify Shipping Labels and Fulfillment Network.
- Produced visualizations and analytical reports to support business decisions.
- Worked on smart inventory-allocation and prediction using Deep AutoRegressive Networks (DARN) and time series analysis.
- Implemented forecast of shipping activity using fbprophet.
- Worked with complex datasets using SQL, Spark and hdfs.

Jan. 2019–Aug. 2019

**Research Assistant**

May 2019–Jul. 2019

SUNLAB, University of Ottawa

- Quantified the financial risk of behind-the-meter solar microgrid investments using differential importance measures.
- Compared the performance of a new analytical approach for the sensitivity analysis of financial investments to the Monte Carlo approach.
- Presented results to industry representatives at the Renewable Energy Economics Seminar.

**Tutor**

Sep. 2017–Dec. 2018

Peer Help Centre, University of Ottawa

- Tutored students on technical topics such as statistics, linear algebra, business analytics, and programming in Python and Java.

**Visitor Guide, Student Capital Information Officer**

May 2018–Dec. 2018

Canadian Heritage, Government of Canada

May 2017–Sep. 2017

- Delivered heritage interpretive programs in both English and French to over 30,000 visitors from around the world.

**Teaching Assistant**

Sep. 2017–Dec. 2017

Human Resources (ADM2337), Telfer School of Management

**RESEARCH****Working Papers**

Guindon, A., Wright, D. (2020). **Analytical Approach to Quantitative Risk Assessment for Solar Power Projects** (in progress).

Elmasri, M., Labbe, A., Larocque, B., Charlin, L., Germain, E., Guindon, A. (2020). **Travel Time Estimation using a Hidden Markov Model in R** (R journal; in progress).

**Projects**

Guindon, A., Crivelli, L. (2019). **[Re] Exact Combinatorial Optimization with Graph Convolutional Neural Networks**. *NeurIPS 2019 Reproducibility Challenge*. [https://github.com/audreyanneguindon/NeurIPS\\_2019](https://github.com/audreyanneguindon/NeurIPS_2019)

Guindon, A., Elliott, C. (2017). **Is the Stereotype of the Male Entrepreneur Still Relevant?** University of Ottawa Undergraduate Research Opportunity Program (UROP) Symposium.

## VOLUNTEERING

### Data Analyst

Oct. 2019–Present

Data for Good, Montreal

- Working with other data scientists and social organizations through a collaborative approach that leads to shared insights and positive actions.
- Helping provide pro-bono data analytics services (visualization, data engineering, and statistical analysis) to charities and not-for-profit organizations.

## HONOURS AND AWARDS

Graduated Magna Cum Laude	2019
Dean's Honour List	2016–2019
Merit Scholarship (Telfer School of Management), 1,000\$	2018
Undergraduate Research Scholarship (University of Ottawa), 1,000\$	2017
Merit Scholarship (University of Ottawa), 1,000\$	2016
Excellence Scholarship (University of Ottawa), 1,500\$	2014

## SKILLS AND ABILITIES

- Exceptional written and verbal communication skills both in French and in English.
- Experience creating and delivering empowering presentations.
- Able to work well independently and within a team.
- Strong research, problem solving, and analytical skills.

## TECHNICAL

**Programming:** Proficient in Java, Python, R, SQL, PySpark, HTML/CSS, Javascript.

**Platforms and Frameworks:** Visualization (Jupyter Notebook, Mode Analytics, Tableau, Power BI); Machine Learning (Scikit-learn, TensorFlow, PyTorch, NLTK); Databases (Hadoop, Spark, MS Access); Analytics (Excel, SCIP, Minitab, IBM SPSS Modeller); Tools (Git, Latex).

**Experience:** statistics, object-oriented programming, algorithms, optimization, data mining, databases, time series analysis and forecasting, machine learning, deep learning and predictive analytics techniques.

**Relevant Courses:** Machine Learning, Deep Learning, Algorithms for Optimization.

## ACTIVITIES AND INTERESTS

Reading, writing (fiction and poetry), hiking, skiing, music generation (AI), puzzles.