Olivier Binette

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Education

Duke University	**Aug. 2019 – present**
Ph.D. Candidate, Department of Statistical Science (3.9 GPA)	*Durham, NC*
Université du Québec à Montréal (UQÀM)	**Sept. 2014 – July 2019**
B.Sc. and M.Sc. in Mathematics (3.97 & 4.0 GPA)	*Montréal, QC*

Professional Experience

Data Scientist (internship) | *Intact Financial Corporation*   **January 2022 – Present**

Research Coordinator | *Duke Community Food Pantry*   **May 2021 – Present**
- Developed the research plan adopted by Duke University to monitor food insecurity on campus.
- Record linkage, survey design, and data analysis for Pantry programs assessment.

Research Assistant | *Duke University*   **September 2019 – December 2021**
- Led research on the quantification of modern slavery using multiple systems estimation (paper to appear in the **Journal of the Royal Statistical Society, Series A**).
- Led research in the field of record linkage, privacy-preserving record linkage, and entity resolution (review paper accepted for publication in **Science Advances**; working paper in progress).

Instructional Teaching Assistant | *Duke University*   **September 2020 – December 2021**
- Instructional TA for Bayesian and Modern Statistics (Fall 2020), Entity Resolution (Spring 2021), and Introduction to Data Science (Fall 2021).

Data Science Project Manager | *Information Initiative at Duke*   **June – August 2021**
- Supervised a team of students building a data visualization dashboard for the UC Davis Perinatal Origins of Disparities Center.

Data Science Project Manager | *Duke Applied Machine Learning Group*   **January – May 2021**
- Supervised a team of students working on optical character recognition and article segmentation for historical newspaper archives.

Data Science Project Manager | *Information Initiative at Duke*   **June – August 2020**
- Supervised a team of students analyzing time series data and geospatial data for the Duke River Center.

Research Assistant | *University of Quebec at Montreal*   **September 2017 – July 2019**
- Led research in the field of Bayesian nonparametrics and information theory.
- Published in the **Journal of Machine Learning Research**, **Journal of Statistical Planning and Inference**, and **IEEE Transactions on Information Theory**.

Instructional Teaching Assistant | *University of Quebec at Montreal*   **2017 – 2019**
- Instructional TA for Statistics I (Winter 2019), Analysis I (Winter 2019), Probability II (Fall 2018), Complex Analysis (Winter 2018), MAT1190 (Analysis and algebra for the actuarial sciences, Winter 2018), Analysis II (Fall 2017 & Fall 2018).

Recognition & Scholarships

- Canada Governor General's Academic Medal (2020)
- Fully funded admission offer at Stanford University (2019).
- Alexander-Graham-Bell Canada Graduate Scholarship (2019; CAD 135,000)
- Fond de Recherche du Québec - Nature et Technologies Doctoral Award (2019; CAD 105,000)
- Faculty of Arts & Science Top doctoral award (University of Toronto, 2019)
- Natural Sciences and Engineering Research Council of Canada Masters Award (2017; CAD 17,500)
- Fond de Recherche du Québec - Nature et Technologies Masters Award (2017; CAD 21,000)

Programming Skills and Software Development

Programming: R, Python, Javascript, C/C++, Java, git, bash, Linux, slurm

R packages on Github: dgaFast, MSETools, assert, cache, fingermatchR, TessTools.

Python packages on Github: GroupByRule