

Jennat Lamsatfi

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🎓 Education

M.Sc Mathematics, Statistics | University of Quebec in Montreal, UQÀM | Montreal, QC | 2019–2022

Developing a new statistical algorithm calculating the probability of finding a matching donor based on In/compatible HLA epitopes in kidney transplantation.

B.Sc Mathematics, Statistics | University of Quebec in Montreal, UQÀM | Montreal, QC | 2015–2018

👜 Experience

Data Scientist | BSMD Desjardins | Quebec, QC | Aug 2021–Jul 2022

Analytical Problem Solving

- Built an R process to automate the cleaning and transformation of financial data to ingest into BI reports.
- Built R Shiny apps: Resume's analysis App for recruitment purposes / Default late payment App for credit risk to assist auditors.
- In the context of the annual revision for Basel Accord (Agrégation des données sur les risques - Notification des risques (ADR|NR)): For credit risk component (Data Integrity verification), based on business/mathematical rules, automate the process of analyzing big data (using R & Python), detecting anomalies and producing final reports to present to managers.

Leadership Management

- Leading the analytical component of the Credit risk Module (requirements, analysis and insights).
- Design the road map of Data Science projects based on key client question and propose new areas of research to unlock business value in Credit Risk/Insurance.
- Set up the structure and the work methodology for the Data Science team and work closely with the IT team setting up the Data environment for our team.
- Recruitment of analysts, junior data scientists, interns and act as a mentor for interns.

Mathematician / Methodologist | Statistics Canada | Ottawa, ON | Jan 2020–Jul 2021

Methodology & Development

- Generate the sample list for the monthly production across Canada for the Labor Force Survey, Canadian community Health Survey (CCHS) and Survey of Household Spending (SHS).
- Work with Senior Methodologists on the new platform for the Labor Force Survey to create different statistical scenarios for testing.
- Work closely with the developer team to fix bugs.

Teacher Assistant | UQÀM & University of Sherbrooke | Sep 2015–Apr 2019

Prepare and explain the labs (Mathematics and Statistics) for undergraduate students. Prepare revision labs for exams and correct homework and exams.

Consultant (Statistics and Bio-Statistics) Internship | statistical consulting service (UQÀM) & CHUS Research Center | Montreal/ Sherbrooke, QC | 2017/2019

- Database cleaning/restructuring/transformation, carrying out randomization trials before recruiting patients.
- Coding custom functions based on customer needs (internal physicians and researchers), perform statistical analyzes, prepare final study reports with interpretations.

🧰 Skills

🔧 **Technical Skills:** Microsoft Office, R (5+ years), SAS (5+ years), Python, SQL, Power BI, Tableau, Latex, Git, VSCode, Matlab (beginner), Julia (beginner), JavaScript, HTML, CSS, SPSS, Data Cleaning/Wrangling/Visualization, Shiny Apps, Web Development.

📊 **Maths/Stats Skills:** Statistical inference, Survival analysis, Nonparametric methods, Machine learning, Deep learning.

👉 **Novice:** iOS & Swift, Algorithmic Trading, Android App Development, Cybersecurity.

Awards / Contribution

Scholarship in Data Science - Data Science Infinity & Women in AI - 2022

Scholarship of Excellence in Mathematics - Bourse Marie-Thérèse en mathématiques fondamentales (UQÀM) - 2021

Scholarship of Excellence - Faculty of Science (UQÀM) - 2020

Master's scholarship - Statistics and Data Science Research Center STATQAM - 2020

Principal Author of "*The Calculated Panel of Incompatible Epitopes (cPIE) in the Service of Equitable Access to Transplantation*" - American Transplant Congress - 2021

Principal Author of "*Is Equitable Access to Transplantation Possible in the Era of HLA Epitope Compatibility?*" - American Transplant Congress - 2021

Co-author of "*On Path to Informing Hierarchy of Eplet Mismatches as Determinants of Kidney Transplant Loss*" - International Society of Nephrology - 2021