





Thierry Jean

CV académique

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Introduction

I use machine learning to develop clinical tools in psychiatry. I aim for a career in data science with the engineering skillset to shape ideas into impactful solutions.

Employment Experience

MoovAI

May 2022 – Now

Internship, Data Scientist

Worked primarily on developing a model for dynamic bidding for an ad exchange.

- Scope business problems as solvable machine learning use case;
- Implement reproducible pipelines and experiment tracking harness;
- Write clean and well-documented Python code;
- Deploy solution client cloud infrastructure (Snowflake, AWS);
- Work in project team (data scientist, data engineer, project manager) using Agile methodology;
- Prepare and present consulting reports;
- Contribute to internal MLOps tooling and best practices guides.

May 2020 – February 2021

SuccessFinder

Internship, Research and development

- Lead **3 research projects** resulting in new products;
- Design and administer **surveys and systematic interviews** to **manager and C-level stakeholders** about specific roles in the financial sector;
- Analyze qualitative and quantitative data;
- Share results internally and **write white papers** (FR/ENG);
- Create and deliver **PowerBI** dashboards for **external clients**.
[LinkedIn recommendation](#)

March 2019 – January 2020

Université de Montréal

Research assistant, social psychology

- Recruit participants;
- Complete literature reviews, and establish research protocols;
- Conduct group experiments with human participants.

September 2016 – August 2019

OptimumTalent

Administrative assistant

- Support consultants in their mandate (e.g., scheduling, billing, expenses, client coordination);
- **Proofread and translate** corporate documents;
- Draft reports for psychometric evaluation.

[LinkedIn recommendation](#)

Research Experience

September 2021 - Now

CR-IUSMM

Master's student researcher

Our multi-disciplinary lab developed an Android app to monitor and predict psychiatric symptoms from smartphone sensors. In parallel, a **startup** is being created.

- Data mine "social behaviors" from **multimodal multivariate time series** (e.g., Bluetooth, Wi-Fi, call logs) using **Python**;
- Employ **self-supervised learning** to create user embeddings;
- Run batch computing script on Béluga scientific computing cluster (Calcul Québec);
- Ensure reproducible methodology with **Git version control** and **Hydra logging**.

September 2020 - September 2021

CR-IUSMM

Undergrad Honor thesis

On the same topic as my Master's :

- Create **XGBoost** and **LSTM** models to forecast next-day stress and happiness levels;
- Implement **prediction explanations using SHAP**;
- Conduct post-hoc statistical analysis;
- Present results at conferences. [Github repository](#)

May 2019 – May 2020

JIRIRI et NCACN

Editor for peer-reviewed scientific journals

- **Review and evaluate** manuscripts;
- Correspond with authors and share recommendations;
- Train external reviewers.

Technical Skills

- **Proficient** Python, numpy, pandas, sklearn, XGBoost, LightGBM, Kedro, Optuna, ONNX, Hydra, PowerBI
- **Familiar** PyTorch, PostgreSQL, DAX, M, AWS, REST API, webapps (plotly Dash, streamlit)
- **Beginner** Dask, JavaScript, Bash, Docker, Kubernetes, Spark
- **Tools** Git, Jupyter, conda, JIRA

Education

- | | |
|-------------|--|
| 2021 – 2023 | M.Sc., Biomedical Sciences, option Computational Medicine
Université de Montréal |
| 2019 – 2021 | B.Sc. Hon., Psychology, GPA : 4.16/4.3
Université de Montréal |
| 2020 | Exchange Semester
Maastricht University, Faculty of Psychology and Neurosciences |

Academic Scholarships and Awards

- 2021 **Recruitment scholarship - 4000\$**
Faculty of Medecine - Université de Montréal
- 2021 **Master's scholarship (2021-2022) - 17500\$**
Canadian Institutes of Health Research (CIHR)
- 2021 **Master's scholarship (2021-2023) - 35000\$**
Fonds de recherche du Québec - Santé
- 2021 **Best communication, Undergrad (Honor) - 350\$**
14th Annual scientific day of the Psychology department at l'Université de Montréal
- 2021 **3rd best communication - 500\$**
Annual research day 2021, Research Center of Montreal's Institute form Mental Health
- 2021 **Team MVP - TD Asset Management**
Industrial Problem Solving Workshop 2021, Centre de recherche en mathématiques, and IVADO [Slide deck](#)
- 2021 **Best debatter, and Winning team**
Télé-Coupe 2020-2021, Ligue de débat universitaire et collégiale
- 2020 **Microsoft Sponsor Prize - 100\$**
McGill AI Society Hackaton 2020, Microsoft Representatives
- 2020 **Recognition of involment in student life**
Vice-rector of student affairs, UdeM

Scientific Publications

- 10-2021 **Santé mentale au Québec**
Le phénotype digital pour une pratique clinique en santé mentale mieux informée. [Link to article](#)

Scientific Communications

- 05-2022 **Congrès annuel - ACFAS**
Mesurer et prédire le stress et l'humeur grâce au téléphone intelligent
- 10-2021 **Octobre Numérique - IVADO**
Phénotypage digital : prédire le stress et l'humeur futurs grâce au téléphone intelligent [Youtube Link](#)
- 10-2021 **Annual Congress of the Société Québécoise de Recherche en Psychologie**
Prédire l'humeur et le niveau de stress futurs à l'aide de données acquises par une application mobile
- 06-2021 **Annual Research Day of the CR-IUSMM**
Prédictions interprétables du stress à l'aide de données de phénotypage digital
- 05-2021 **Annual Scientific Day of the Psychology Department**
Prédictions interprétables des états d'humeur et de stress futurs sur base de données de phénotypage digital

Student Involvements

August 2021 – Now

Student committee – IVADO

Event manager

Plan and organize events (conferences, lunch & learn, workshops) with invited professors and speakers for the student community.

April 2020 – Now

Ligue de débat universitaire et collégiale

University Representative

- **Represent all universities** on the administration council (UdeM, McGill, UdeS, uLaval, Concordia, UQAM, ESG);
- Adapt debate activities to an online format, and setup the technological infrastructure.

April 2019 – April 2020

Debate Team – Université de Montréal

Treasurer

- Administer the finances of the student group;
- Organized a 2-days tournament on campus with more than 70 participants
- **Lead institutional partnerships** including speech contest "Délie ta langue!", and a workshop for the program "Leadership Étudiant".

Courses

- 2022 Concepts and Methods in Epidemiology, Data Science for Public Health
- 2021 Fundamentals of Machine Learning (MILA), Foundations of Computational Medecine, Data Science (MILA), Contemporary Issues in Scientific Methodology
- 2020 Discrete Mathematics, Advanced Statistics

Langagues

- French First language
- English Fluent both spoken and written (B2 Level)

About me

Born in Montréal, I love my city for its museum, concerts, parks, and restaurants. Immensily curious and driven, I thrive in environments where people share their critical perspective, and work hard towards a common goal.