Basile **Dura**

COMPUTER SCIENCE · ARTIFICIAL INTELLIGENCE

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Summary

Passionate about artificial intelligence and soon to graduate from Mila, a renowned institute for learning algorithms, I am looking for a data science position where I can work on real-world and inspiring applications.

Education

Mila & Université de Montréal
Montréal, Canada

MSc in Computer Science
2018 - 2020

Mila is an institute dedicated to artificial intelligence located in Montréal, founded by Turing Award recipient Yoshua Bengio.
- Studied state-of-the-art methodologies with leading researchers in artificial intelligence.
- Attended highly theoretical courses such as *Probabilistic Graphical Models*, *Representation Learning* and *Reinforcement Learning*.
- Trained on development best practice with real-world applications and project-oriented courses like *Autonomous Vehicles*.

École Polytechnique
Paris, France

MSc in Applied Mathematics
2014 - 2018

- Attended courses in applied mathematics, physics, mechanics and computer science.
- Specialised in applied mathematics/computer science: statistics, machine learning and operations research/optimisation.

Experience

InVivo AI
Montréal, Canada

Research Intern
May 2019 - December 2019

InVivo AI is a Montréal-based and Mila-affiliated startup aiming to bring the power of machine learning to drug discovery.
- Worked as a research scientist, designing algorithms able to cope with the dire data scarcity that plagues the field.
- Co-wrote multiple research papers, including *Adaptive Deep Kernel Learning*, a method that can extract knowledge from different taks.
- Optimised in-house machine-learning models with a ten-fold speed increase.
- Developed internal tools to schedule training jobs more efficiently, including a web application front-end.

Ekimetrics
Paris, France

Junior Consultant
September 2017 - February 2018

Ekimetrics is a French data-driven marketing consultancy and a leader in Europe.
- Extracted actionable insights from client data, through purchase funnel analysis or best marketing lever identification.
- Worked on a research project aiming to give more theoretical groundings to the methodology used in the company.

IBM Research
Singapore

Research Intern
May 2017 - August 2017

- Led a research endeavour focusing on destination inference in the Singaporean public transportation network.
- My work was later published at the AAMAS conference as part of a larger project.

Papers

Meta-learning for drug discovery ⚲
InVivo AI

Report on the research projects I carried out at InVivo AI during my eight-month internship.
December 2019

Adaptive Deep Kernel Learning ⚲
InVivo AI

Paper submitted to NeurIPS 2019. A lighter version was accepted to the meta-learning workshop.
May 2019

FASTER: Fusion AnalyticS for public Transport Event Response ⚲
IBM Research

Published at the 2019 International Conference On Autonomous Agents and Multi-Agent Systems.
May 2019

Skills

Programming	Extensive experience with Python – both high-level frameworks (eg Pytorch, Scikit-Learn) and low-level libraries. Experience with Git, Docker, web development and continuous integration. Familiar with SQL and Java.
Languages	Native French speaker, fluent in English. Intermediate Spanish skills.