Basile **Dura**

COMPUTER SCIENCE · ARTIFICIAL INTELLIGENCE

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Summary

Passionate about artificial intelligence. Currently working at AP-HP, using AI to accelerate healthcare and medical research.

Experience

Assistance Publique - Hôpitaux de Paris (AP-HP) *Paris, France*

DATA SCIENTIST *September 2020 - Present*

AP-HP is a globally recognised university hospital centre with 39 locations, treating more than ten million patients each year.
- I use natural language processing to extract knowledge from the hospital's largely unstructured health data.

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 to extract knowledge from different tasks.

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, and worked on a research project giving 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.

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*.

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.

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, SQL, Hadoop, Spark, web development, continuous integration and D3.js.
Languages	Native French speaker, fluent in English. Intermediate Spanish skills.