Azim Givron

PhD Student in AI

PhD student with prior experience in data science applied to marketing and in R&D for nuclear software development at a startup. Now joining academia to pursue a career at the intersection of applied mathematics and bioinformatics, with the goal of advancing research in rare diseases and contributing to improved education.

Personal Information

Email: azimgivron@gmail.com

Phone number: +33749608645

Address: 1060, Saint-Gilles, Belgium

Birth date: February 9, 1995

Programing Languages

- Python, C, C++, Java

Domain Specific Languages

- SQL, VHDL

Certification

- AWS Cloud Practitioner

Frameworks and Libraries

- Pandas, Numpy, Scikit learn, Matplotlib
- Pytorch, Pytorch Lightning, Keras
- PySpark, Hadoop, Kafka
- Docker
- Prolog
- OpenMC

Hobbies

Reading, learning, traveling and discovering cultures and sports.

Education

Katholieke Universiteit Leuven, Leuven, Belgium

Advanced master of Artificial Intelligence 2023-2025

Master thesis about Non-Euclidean Gradient Methods for Matrix Completion in Gene Prioritization

Ecole Polytechnique de Bruxelles, Université Libre de Bruxelles, Brussels, Belgium

Master of Computer Science Engineering 2018-2020

Bachelor of Engineering 2014-2018

Master thesis about microprocessor architecture exploration in 3D Integrated Circuits using Chisel Language.

Work Experience

KULeuven 2025-Present

PhD student in matrix completion using deep neural networks via advanced optimization techniques (proximal and forward-backward splitting based)

Naarea 2022-2025

Small modular nuclear reactor startup.

Software development: Enhanced the capabilities of OpenMC, a Monte Carlo neutron transport simulation software.

Neutronics engineering: Led the design of reactivity control systems to ensure optimal reactor performance.

Tool development: Developed advanced tools for multiphysics reactor core design, enabling accurate and comprehensive analysis.

Uncertainty propagation: Contributed to methodologies for propagating uncertainties in nuclear data, improving the precision of reactor simulations.

Eura Nova 2020-2022

Consulting company in AI and Big Data.

Designed cutting-edge AI solutions to solve the cold start problem in the retail sector.

Created an innovative multi-touch attribution model to optimize marketing campaign.

Founded NovHack, a successful hackathon initiative focused on advancing AI innovation.