

ANAS MIFRANI

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EDUCATION

Ph.D. in Applied Mathematics

Since Oct. 2022

Research interests: Multiple-criteria decision making, Markov decision processes, multiobjective optimization

University of Toulouse, Toulouse, France

Graduation expected 2025

M.Sc.Eng. in Industrial & Systems Engineering

Sept. 2019 - Sept. 2022

Toulouse Graduate School of Chemical, Materials and Industrial Engineering, Toulouse, France

Classes Préparatoires aux Grandes Ecoles (CPGE)

Sept. 2017 - Jun. 2019

Two-year intensive program for entrance into Moroccan and French engineering schools

Lycée Moulay Abdellah, Safi, Morocco

Majored in Mathematics & Physics

Ranked 113th nationwide out of 2400 candidates

PROFESSIONAL EXPERIENCE

Teaching Assistant

Since Oct. 2022

College of Science & Engineering, University of Toulouse

Toulouse, France

- Have been teaching undergraduate mathematics to students on a selective pre-medical track, with topics ranging from real analysis and calculus to logic, set theory and probability theory.

Research Assistant

Mar. 2022 - Aug. 2022

Toulouse Mathematics Institute

Toulouse, France

- Proposed & validated an algorithm for the automatic selection and configuration of the best available statistical regression models for a particular dataset given a set of criteria.

Research Assistant

Apr. 2021 - Aug. 2021

Toulouse Mathematics Institute

Toulouse, France

- Improved an existing mathematical model of tumor growth & response to radiotherapy.
- Developed & implemented a decision support tool that recommends individualized radiotherapy fractionation schedules for hypothetical cancer patients. The model was used to simulate a patient's response to treatment and reinforcement learning was employed to determine an optimal fractionation schedule.

VBA Developer

Jun. 2020 - Jul. 2020

Sans Cravate

Castanet-Tolosan, France

- Developed a Microsoft Excel-based asset management tool.
- Automated the collection & analysis of live stock market data.

SKILLS

Science & Engineering

IT

Languages

Other

Operations research, multiobjective optimization, machine learning, systems modeling

R, C++, SQL, MATLAB, Octave, Excel VBA

Arabic (native), English (fluent), French (fluent)

Duke University's Data Science Math Skills certificate (July 2020)