ANAS MIFRANI

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

EDUCATION

Ph.D. in Applied Mathematics *Since Oct.* 2022
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 mathematics to undergraduates on a selective pre-medical track, with topics ranging from real analysis and calculus to formal logic and set theory.

Research Assistant *Mar.* 2022 - *Aug.* 2022
Toulouse Mathematics Institute *Toulouse, France*

· Proposed & validated an algorithm for the automatic search, selection and configuration of linear regression models that, given a dataset, achieve satisfactory tradeoffs between conflicting statistical quality requirements.

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	Operations research, multiobjective optimization, machine learning, systems modeling
IT	R, C++, SQL, MATLAB, Octave, Excel VBA
Languages	Arabic (native), English (fluent), French (fluent)
Other	Duke University's Data Science Math Skills certificate (July 2020)