

Adil Zouitine

Research Engineer & Ph.D. Student

31400 Toulouse, France

French citizenship

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Education

- **ISAE-Supaero** **Toulouse, FR**
Ph.D. in Robustness to model uncertainties in reinforcement learning *Expected 01/2025*
 - **Université Paul Sabatier** **Toulouse, FR**
MSc in Mathematics and Computer Science *09/2017 - 08/2019*
 - **Université Paul Sabatier** **Toulouse, FR**
BSc in Mathematics and Computer Science *09/2014 - 08/2017*
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Professional Experience

- **Institutes of Technological Research Saint-Exupery** **Toulouse, FR**
Ph.D. Student, Robustness to model uncertainties in reinforcement learning *01/2022 - 01/2025*
 - Worst-case performance certificate for model uncertainty in reinforcement learning.*Machine Learning Research Engineer* *11/2019 - now*
 - Multi-agent adversarial reinforcement learning combined with game theory.
 - Reinforcement Learning for Multidisciplinary Design Optimisation.
 - Real-time Machine Learning with Online Learning for 5G Applications.
 - Generative adversarial network for domain adaptation.
 - Image segmentation with few labels.*Intern in Reinforcement Learning* *04/2019 - 10/2019*
 - Reinforcement Learning for remote sensing.
 - **GFI** **Toulouse, FR**
DevOps and Data intern *05/2018 - 09/2018*
 - Deployed real time KPI for executive.
 - SQL query optimization.
 - **Intern at National Institute of Research for Agriculture (INRA)** **Toulouse, FR**
Software Engineer Intern *05/2017 - 09/2017*
 - Implementation of a platform that aggregates a hundred research databases
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Publications

- Look where you look! Saliency-guided Q-networks for generalization in visual RL 2022
Neural Information Processing Systems, NeurIPS
 - River: machine learning for streaming data in Python. 2020
Journal of Machine Learning Research, JMLR
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Teaching

- TSE Toulouse, Master 2, Machine learning teaching assistant. 2022
 - INSA Toulouse, Master 2, Machine learning teaching assistant. 2020, 2022
 - ISAE Supaero, Master 2, Machine learning teaching assistant. 2020, 2022
 - Reinforcement learning teaching assistant at RLVS 2020
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Distinctions

- 7th Finalist of the International Data Analysis Olympiads - HSE Moscou - Yandex 2021
 - Winner in the Continental ML hackathon 2019
 - Winner of the hackaton "Défi IA 2019" - Airbus Defence and Space - INSA 2019
 - 7th Finalist of the Data Science Game 2018
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Side work

- **River (core-developer)** - Machine learning on streaming data with Python. 2019-now
 - **Blogging**- I started a blog where I write about machine learning. 2020
 - **Community** - I'm administrator of a French AI chat room on discord with over 3000 members. 2019
 - **Kaggle competition expert** - Peak rank : top 3% 2017
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Skills

Programming

Experienced in Python and intermediate in C++ and Rust

Data analysis

Numerous case studies done during university projects, internships, and competitions

Machine Learning

Solid knowledge of the concepts and hands-on experience. Deep Learning and Reinforcement Learning expertise.

Code quality

Healthy habits regarding coding conventions, documentation, testing and reproducibility

Software Engineering

Open Source Development, Python Packaging, Testing, CI/CD, Software Design, Cloud Computing, Docker.

Data Management

Solid knowledge of SQL and NoSQL and relational databases.

Languages

Fluent French. Professional english

Hobbies

- Teaching
- Biking
- Programming
- Boxing
- Reading
- Snorkeling