

LOUIS ROBINET

Data Scientist & Science lover

@ louisrobi@hotmail.fr
📍 France

✉ 1045b route de la Montagne, 26300 Rochefort-Samson
☎ +33635399149



EDUCATION

MSc. Computer Science - Artificial Intelligence

Leiden University

📅 Sept 2020 - Dec 2022 📍 Leiden, NL

- Specialization in Artificial Intelligence
- Overview on state-of-the-art techniques applied to domains such as sports, robotics, video games, etc.
- Thesis: Procedural Content Generation applied to Video Games level generation in *Celeste*

Master's degree in Complex Systems

École Normale Supérieure de Lyon

📅 Sept 2018 - Aug 2020 📍 Lyon, FR

- Interdisciplinary program
- Emphasis on Computer Science, Physics, Mathematics, and Complex Networks

Bachelor's degree in Physics

École Normale Supérieure de Lyon

📅 Sept 2017 - Aug 2018 📍 Lyon, FR

- Specialized courses in Physics and Chemistry
- Experimented-based coursework

Classe Préparatoire aux Grandes Écoles MPSI/MP*

Lycée du Parc

📅 Sept 2014 - Aug 2017 📍 Lyon, FR

- Intensive program preparing for the national french competitive exam for entry to engineering schools and ENS
- Combines courses from the fields of Mathematics, Physics, Computer Science and Engineering Sciences

WORK EXPERIENCE

(Lead) Data Scientist

alcemy

📅 May 2023 - Ongoing 📍 Berlin, GER (full remote)

- Developed and improved data integration pipelines to successfully import data from customers into a cloud system
- Created tools, visualizations, and automated checks to monitor customer data health & quality
- Hands-on Machine Learning in production, from setting up models to conducting experiments aiming at improving models with imbalanced, limited, and/or biased data
- Responsible for estimating the time and technical scope of new features as well as their implementation

ABOUT ME

"Bonjour! Young and dynamic french data scientist, I am passionate about artificial intelligence and science in general as well as (trail) running and traveling! I try to combine my passions together, like Data Science & Sports or AI & video games."

SKILLS

💻 **Programming languages and tools**
Proficiency and strong interest in Python, Java, Julia, C/C++, experience on Dataiku

🏛 **Interdisciplinary background**
Advanced competencies in Mathematics, Physics, and Computer Science, quick adaptability to new fields

👥 **Communication**
Good communication skills due to my teaching experience and my internships

🏆 **Challenger**
Sharpened problem-solving skills, objectives and data-driven, experience in research through my internships in different laboratories

STRENGTHS

- Curious
- Highly motivated
- Adaptability
- Willing to learn
- Ambitious & Goal oriented

LANGUAGES

- French

Native

●●●●●
- English

Fluent

●●●●●
- German

Upper-intermediate

●●●●●
- Japanese

Elementary

●●●●●

- Lead component: responsible for knowledge transfer, solution framing and formation about the entire data integration pipeline since May 2024

Data Scientist Intern

Thales (Defence and Mission Systems)

📅 Mar 2022 – Sept 2022 📍 Bordeaux, FR

- Data exploration, Machine Learning algorithms and statistical modeling on fighter jets usage data
- Hands-on a large scale project and data science platform Dataiku

Lecturer for a Mathematics Refresher course

Leiden University

📅 Nov 2021 – Nov 2022 📍 Leiden, NL

- Lectures about linear algebra, statistics, and probabilities for Leiden University MSc. students

Internship in Geomorphology, Data & Image Analysis

EVS - CNRS Lyon

📅 Jan 2020 – July 2020 📍 Lyon, FR

- Detection and characterization of river styles from satellite images
- Combines Python development, machine learning techniques, and hydrogeomorphology

Internship in Astrophysics, Image Analysis & Signal Processing

Lyon Observatory - CRAL

📅 Apr 2019 – Aug 2019 📍 Saint-Genis-Laval, FR

- Work on simulations of space observations
- Python development, data analysis, and strong theoretical astrophysics

Internship in Soft Matter

Universiteit van Amsterdam

📅 May 2018 – Aug 2018 📍 Science Park 904 - Amsterdam, NL

- Internship at Machine Materials Laboratory with Dr. Corentin Coulais
- Studying the buckling of self-assembled colloidal structures through image analysis and particle tracking

Private tutor

📅 Sept 2017 – Ongoing

- Helped students from high school and BSc level in Mathematics, Physics, Chemistry, Engineering Sciences, and Computer Sciences thanks to my interdisciplinary educational background
- Total of 10+ students since 2017, ~10-15h/week

CERTIFICATIONS CONTRIBUTIONS

&

📖 Publications

- Robinet, Louis, Mike Preuss, and Marcello A. Gómez-Maureira (2024). "Towards a Celeste AI Framework: Agent-free Automated 2D Level Generation for Multidirectional Platformers". In:
- Zheng, Ellen, Martin Brandenbourger, Louis Robinet, Peter Schall, Edan Lerner, and Corentin Coulais (2023). "Self-oscillation and Synchronisation Transitions in Elasto-Active Structures". In: *Physical Review Letters* 130. URL: <https://arxiv.org/abs/2106.05721>.

🌟 Certifications

- DeepLearning.AI (2024). *Machine Learning in Production*.