

RICCARDO FRANCESCHI

PhD-trained data scientist skilled in machine learning, Bayesian modeling, Monte Carlo simulations, and Python. Proven in building data pipelines and delivering technical projects. Especially interested in climate, energy, and risk modeling roles, with openness to broader data-driven opportunities.



[✉ franceschi93.datascience@gmail.com](mailto:franceschi93.datascience@gmail.com)

[☎ +39 328 62 87 305](tel:+393286287305)

[🌐 rfranceschi.github.io](https://github.com/rfranceschi)

[📄 riccardo-franceschi-astrophysics-data-scientist](#)

[🔗 rfranceschi](#)

[🔍 NASA/ADS publications](#)

ROLES DESCRIPTION

Postdoctoral researcher

Observatory of Paris

📅 Feb. 2024 – Ongoing 📍 Paris, FR

PhD student

Max Planck Institute for Astronomy

📅 Oct. 2019 – Nov. 2023 📍 Heidelberg, DE

Outcome:

Experience in computational modeling and AI-driven data analysis, bridging analytical research and software engineering. Delivered peer-reviewed publications, international conference talks, and led global scientific teams, while mentoring and managing projects.

- Led and coordinated collaborations across multiple international scientific teams, ensuring timely and successful project delivery
- 6 invited or contributed talks at major international conferences (Japan, Spain, Germany, USA, Netherlands, United Kingdom)
- 20 peer-reviewed publications in international journals (6 as first author)
- Designed and delivered 2 Master-level university courses, developing and delivering original curricula
- Organized and presented public outreach lectures on astronomy to non-specialist audiences

KNOWLEDGE

Python

Cloud-HPC Workflows

AWS

SLURM

Docker

Data Modeling

ELT

Big data handling

Machine Learning/AI

PyTorch/TensorFlow

scikit-learn

Version Control System

git

SQL

pandas

matplotlib/seaborn

SKILLS

Team Leadership

Project Management

Stakeholder Communication

International Collaboration

Mentoring

Presentations

COLLATERAL EXPERIENCE

Attended 11 workshops and training courses—7 directly relevant—demonstrating initiative in mastering new skills and applying them to real-world challenges.

Data science related training:

- 🧠 [Neural Networks and Deep Learning.](#)
- 🧠 [Improving Deep Neural Networks.](#)
- 🧠 [Structuring Machine Learning Projects.](#)
- 🧠 [Convolutional Neural Networks](#)
- 🧠 [Sequence Models.](#)
- 🧠 [Deep Learning Specialization.](#)
- 🧠 [AI for Astrophysics](#)
- 🧠 [SKIES Train the Trainer](#)
- 🧠 [Python for HPC Workshop](#)

EDUCATION

Ph.D. in Astrophysics

Max Planck Institute for Astronomy

📅 Oct 2019 – Nov 2023

M.Sc. in Astrophysics

University of Pisa

📅 Sept. 2015 – Dec. 2018

B.Sc. in Physics

University of Pisa

📅 Sept. 2012 – Sept. 2015

LANGUAGES

English

Italian

German

●●●●●

●●●●●

●●●●●