



Gaëtan Fichet de Clairfontaine, PhD

PhD astrophysicist with postdoctoral research experience in large-scale numerical simulations and data analysis. Now expanding expertise into **machine learning and business analytics** through self-directed projects, applying **Python, scikit-learn, SQL, and Metabase** to real-world datasets. Combines scientific rigor with modern data tools to deliver insights and reproducible results.

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WORK EXPERIENCE

Postdoctoral Researcher (Data-intensive R&D) —
University of Valencia, Spain
2024–Present

- Built **Python pipelines** for large datasets (ingest · clean · analyze · visualize).
- Ran **HPC experiments** (SLURM job arrays), tracked metrics, automated reports.
- Applied **statistical evaluation & uncertainty analysis** to compare outputs with reference data.

Postdoctoral Researcher (Modeling & Analytics) —
University of Würzburg, Germany (2022–2024)

- Combined simulation outputs and observational datasets, standardizing formats for analysis.
- Delivered **reproducible pipelines** (scripts, notebooks, CLI tools) with documentation.
- Used **Git and collaborative workflows** in an international research team.

Selected Data & ML Projects

- **Retail Analytics Dashboard** → built with PostgreSQL + Metabase to track KPIs (revenue, customers, inventory).
- **Predictive Modeling** → applied scikit-learn (classification, regression, cross-validation) to open datasets.
- **SQL for Business Data** → querying, cleaning, and joining relational datasets for reporting.

PROFESSIONAL STRENGTHS

Analytical thinking · Problem solving · Technical adaptability · Communication · Collaboration · Mentoring

TECHNICAL SKILLS

Language: French (native), English (fluent), Spanish (notion), Italian (notion) and German (notion).

Programming Language: Python, SQL, Fortran.

Tools: NumPy, SciPy, scikit-learn, Git, Jupyter, LaTeX.

Platforms: Windows, MacOS & Linux.

Compute: Slurm, HPC Clusters.

EDUCATION

Bachelor in General Physics
University of Normandie, Caen, France | 2014 - 2017

Master in Astronomy & Astrophysics
Observatory of Paris, Paris, France | 2017 - 2019

PhD in Astronomy & Astrophysics
Observatory of Paris, Paris, France | 2019 - 2022

INTERESTS

Endlessly curious, I enjoy exploring connections between science, history, and culture. I'm passionate about **geopolitics, artistic storytelling** (from cinema to video games), and music — both as a listener and musician. A devoted **Beatles enthusiast**, I play both **guitar and bass**.