Adrien Anthore

PhD student specializing in
Radioastronomy and Deep Learning.

Research interests: Galaxy: general - Radio lines: galaxies
Radio continuum: galaxies - Instrumentation: interferometers
Methods: observational - Methods: data analysis - Deep Learning.

Web Page *Linkedin* *Github*

Research Experience

2025 – 2028 ***PhD student*, Automatic detection of the HI gas line in massive data from pre-Square Kilometre Array surveys**, *GALHECOS (Observatoire Astronomique de Strasbourg)*, Strasbourg, France.
Director: **L. Chemin**.

2025 ***Study Engineer (IE)***, *GALHECOS (Observatoire Astronomique de Strasbourg)*, Strasbourg, France.
Detection and characterization of HI sources in LADUMA data using CNN and CIANNA framework.

2023 – 2024 ***Master 1, 2 internships & Lab Insertion***, *LERMA (Observatoire de Paris)*, Paris, France.
Detection and characterization of sources in radio astronomical datasets using Deep Learning.
Supervisor: **D. Cornu**.

Education

2022 – 2024 **Master in Space Sciences and Technologies**, *Observatoire de Paris - PSL*, Paris, France.
International Research Track, major in Observational Astrophysics. General astrophysical training with a focus on Observational techniques, data analysis, instrumentation, HPC, and Machine Learning.

2019 – 2022 **Bachelor of physics**, *Sorbonne Université*, Paris, France.
General physics, intensive track focused on theoretical and mathematical aspects.

Programming skills & Scientific Computation

Languages

Python, C, C#, advanced.
Scientific computing, HPC/HPDA, and development.

High-Performance Computing (HPC)

MPI, CUDA, intermediate.
Scientific computing.

Statistical Learning

Frameworks: **CIANNA, Scikit-Learn, Tensorflow, PyTorch**, advanced.
Deep Learning, Computer Vision, Clustering (MLP, CNN, ...).

Allocations on calculators

Jean-Zay, MesoPSL mesocenter, CCUS, Tycho cluster.
Scientific computing, Parallel computing, GPU computing, SLURM.

Outreach

since 2022 **Fête de la Science**, *Sorbonne Université, Observatoire de Paris, Observatoire Astronomique de Strasbourg*, scientific activities and animations, 3 days/year.

since 2021 **L'Observatoire d'Adrien**, Popularization program on the internet, scientific content focusing on astrophysics, astronomy, and research, YouTube, TikTok, and Instragram.

10/2021 **Festival Explor'Espace**, *Montrouge*, activities around aeronautics and aerospace, 3 days, web site.

Talks in schools, I sometimes give astronomy presentations and discussions on stars, planets, etc. to students of all ages (1-2h).

Conferences and workshops

10/2025 **CIANNA user workshop**, *Paris, France*, web site.

09/2025 **Pathfinder HI Survey Coordination Committee (PHISCC)**, *Cagliari, Italy*, workshop, web site.

07/2024 **EAS meeting 2024**, *Padova, Italy*, ePoster, web site.

Teaching

2025 **High school math teacher**, *Lycée Teilhard de Chardin*, general math teaching - 114h .

2023 – 2024 **SPRINT Summer Camp**, *Sorbonne University*, Introduction to Astrophysics - ∼4h/year (volunteering).