Adrien Anthore

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

2023 – 2024 ***Master 1, 2 internships & Lab Insertion***, *LERMA (Observatoire de Paris)*.
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.
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.
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.

Observationnal Projects

Research project

2022 **Nançay Radio Telescope 100m**, observation of 8 edge-on late-type galaxies, data product sent to EDD database, ∼20 hours.

Other projects

2023 **Meudon's observatory T-60 & T-45**, *Master 1 training*, multi-band observation of M42 and bright stars, ∼8 hours.

2022 **Paris' observatory 3m single dish antenna**, *3rd year bachelor training*, HI observation of clouds in the Milky-way, ∼8 hours.

since 2020 **Amateur optics & Electronically-Assisted devices**, I perform observation of all kinds of objects and introduce amateurs to sky observations.

Scientific life and outreach

Student organisation involvement

2024 President of "BDE de l'Observatoire de Paris" (Student Council).

2022 Head of the communication department at Top Aéro, *web site*.

2021 Head of the events department at Top Aéro, *list of the events*.

2020 – 2022 Participation in the experimental rocket project Zéphyr at Top Aéro, launched in 2022, *project page*.

Outreach involvement

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

since 2021 **Talks in schools**, I regularly give astronomy presentations and discussions on stars, planets, etc. to students of all ages (1-2h).

2023 – 2024 **Fête de la Science**, *Observatoire de Paris, Meudon*, activities around astronomy and astrophysics, 3 days/year, web site 2023, web site 2024.

10/2022 **Fête de la Science**, *Sorbonne Université, Paris*, activities around aeronautics and aerospace, 2 days, web site.

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

Conferences and workshops

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).