

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.

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 [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, GPU computing.

Statistical Learning

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

Allocations on calculators

Jean-Zay (AD010416753: 4kh H100 GPU), **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 [Instagram](#).
- 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

Undergraduate level

- 2026 **Numerical Analysis**, *Université de Strasbourg*, 2nd year Licentiate degree, 24h eqTD.
- 2026 **Introduction to Unix & Python**, *Université de Strasbourg*, 1st year Licentiate degree, 32.5h eqTD.

High school level

- 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).