

# 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.

11 rue de l'Université  
67000 Strasbourg, France  
[Web Page](#) [inLinkedIn](#) [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).