

# Chentao Yang

Dr. of astrophysics



As a trained **astrophysicist**, I have a solid foundation in **math** and **physics**. My 10+ years experience in observational astrophysics research has sharpened my data analysis skills and scientific exploration spirits. I'm **curious** and versed in dissecting complex problems, while maintaining the balance intricate details with big-picture perspectives.

## TOOLSET

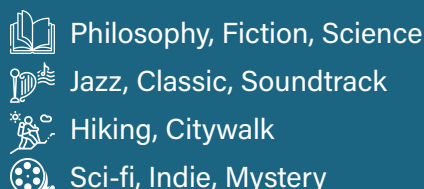


**OS:** Shell (Unix/Linux), Julia, FORTRAN,  
**Lang:** IDL, Python (NumPy, Pandas, Astropy, Matplotlib, ...), Matlab, Mathematica  
**S/W:** VS Code, Jupyter Lab, Git,  $\LaTeX$ , LyX, Obsidian, Adobe Illustrator, FontLab, MS Office (Excel, PowerPoint)...

## LANGUAGE

English	Full proficiency
Mandarin	Native
French	Elementary
Swedish	Beginner
Spanish	Beginner

## INTERESTS



## QUICK FACTS

- **50+ publications** in top international journals, **1000+ citations**, several press releases
- **5+ GitHub projects**, **50+ stars** (using programming, Bayesian/frequentist statistics, MCMC, graphic design)
- **12+ Oral presentations** in prestigious international conferences (including invited)
- **500+ award PI observing telescope time** from **30+** proposals.

## WORK EXPERIENCE

### Postdoctoral Researcher in astrophysics (2021-current)

Chalmers tekniska högskola

- Analyzed large interferometric radio data sets of galaxies.
- Creative visualization of astronomical images and related physical parameters.
- Quantified data and interpreted results via mathematical & physical models.
- Leadership in international team for independent complete research projects.

### Postdoctoral Research Fellow in astrophysics (2017-2021)

European Southern Observatory (ESO)/Joint ALMA Observatory

- Prestigious fellowship in the leading astronomical research center, ESO (Chile).
- Hands-on with the most advanced ground-based observatory, ALMA.
- Independent research from ideas to publications.
- Leading international collaborations.

## EDUCATION

### PhD in Astrophysics (dual-diploma)

Université Paris-Saclay (2014-2017)

(Top 20 in Academic Ranking of World Universities)

University of Chinese Academy of Sciences (2013-2017)

(Top 70 in Academic Ranking of World Universities)

### Master in Astrophysics

Beijing Normal Univesity (2010-2013)

### Bachelor in Astronomy

Beijing Normal Univesity (2006-2010)

(Graduate with distinguished honour, at both university and city levels)

## SKILLS

**Team work, Effective communication, Project management, Programming, Creative data visualzation, Data intuition, Problem-sovling, Critical thinking, Curiosity**

## AWARDS

### Several Scholarships and Funding Awards

- NAOC (National Astronomical Observatory of China) Scholarship
- National Undergraduate Innovative Test Program Grant (10k CNY)
- ESO Science Support Discretionary Fund (9k EUR)
- The LIA-Origins Short Visit Program Grant (3k EUR)

### Fellowship

- ESO Fellowship (Chile), 4-year independent research funding