

# Chentao Yang

Dr. of astrophysics

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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.

## TOOL-SET

OS:      





Shell (Unix/Linux), Julia, FORTRAN,  
**Lang:** IDL, Python (NumPy, Pandas, Astropy, Matplotlib, ...), Matlab, Mathematica

VS Code, Jupyter Lab, Git,  $\LaTeX$ , LyX,  
**S/W:** Obsidian, Adobe Illustrator, FontLab  
MS Office (Excel, PowerPoint)...

## LANGUAGE

English	Full proficiency
Mandarin	Native
French	Elementary
Swedish	Beginner
Spanish	Beginner

## INTERESTS

 Philosophy, Fiction, Science  
 Jazz, Classic, Soundtrack  
 Hiking, Citywalk  
 Sci-fi, Indie, Mystery

## KEY COMPETENCES

- **50+ Research Publications** in top international journals, with **1000+ Citations**, several public 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+ hours Awarded 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 municipality levels)

## SKILLS

**Team work, Effective communication, Project management, Programming, Creative data visualization, Data intuition, Problem-solving, 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