

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

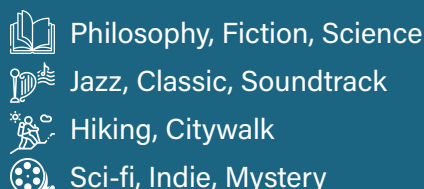


Shell (Unix/Linux), Julia, FORTRAN,
Lang: IDL, Python (NumPy, Pandas, Astropy,
Matplotlib, ...), Matlab, Mathematica
VS Code, Jupyter Lab, Git, \LaTeX , LyX,
S/W: Obsidian, Adobe Illustrator, FontLab
MS Office (Excel, PowerPoint)...

LANGUAGE

English	Full proficiency
Mandarin	Native
French	Elementary
Swedish	Beginner
Spanish	Beginner

INTERESTS



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, in 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