

Chentao Yang

Dr. of astrophysics



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

TOOL-SET



Shell (bash/zsh/csh), Julia, FORTRAN,
Lang: IDL, Python (NumPy, Pandas, Astropy, Matplotlib, ...), Matlab, Mathematica

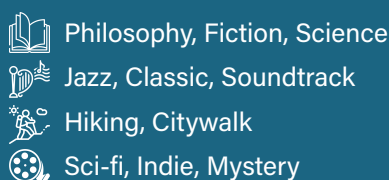
VS Code, Jupyter Lab, Git, \LaTeX , LyX,

S/W: Obsidian, Adobe Illustrator, FontLab
MS Office (Excel, PowerPoint)...

LANGUAGE

English	Full proficiency
Mandarin	Native
French	Elementary
Swedish	Beginner
Spanish	Beginner

MISCELLANEOUS



KEY COMPETENCES

- **Experience:** 10+ Years of data analytic experience in academia.
- **Project management:** 50+ Research Publications in top international journals (incl. Press Releases), with 1200+ Citations.
- **Coding ability:** 5+ Github Projects, 60+ Stars (using math tools like Bayesian/frequentist statistics/MCMC, and graphic design).
- **Visualization & Storytelling & Communication:** 15+ Oral Presentations in top international conferences (incl. invited).
- **Writing skill & scientific excellence:** 500+ hours Awarded PI Observing Telescope Time from 30+ project 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 University (2010-2013)

Bachelor in Astronomy

Beijing Normal University (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 & PEER RECOGNITION

Referee & Expert Reviewer Committees

- Reviewer of several top international astrophysical journals
- External reviewers of prestigious telescopes (JWST, HST...) & national funds (STFC...).

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