



Dr. Chentao Yang

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As a trained astrophysicist, I have a strong foundation in math and physics. My hands-on experience in astrophysics has sharpened my data analysis skills and scientific exploration spirits. I'm naturally curious and versed in dissecting complex problems. This enables me to balance intricate details with big-picture perspectives.

PERSONAL

Date of birth May 1988
Nationality China

LANGUAGE

Mandarin	Native
English	Full proficiency
French	Elementary
Swedish	Beginner
Spanish	Beginner

INTERESTS

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

WORK EXPERIENCE

Chalmers tekniska högskola (2021-current)

Postdoctoral Researcher in astrophysics

- Analyzed large interferometric image data sets of galaxies.
- Visualized images and related physical parameters.
- Quantified data and interpreted results via mathematical & physical models.
- Led international teams in conducting independent research projects.
- Published high-quality scientific papers as both the first author and co-author.

European Southern Observatory, ESO (2017-2021)

Joint ALMA Observatory (2017-2021)

Postdoctoral Fellow in astrophysics

- Stationed at ESO Chile, a leading center for astronomical research.
- Astronomy duties at ALMA, the most advanced ground-based telescope.
- Totally independent research from ideas to publications.
- Performed data analytics using mathematical and physical models.
- Led international research teams to successful project completions.
- Authored and co-authored >10 high-impact scientific publications.

Teamwork

Project management

Problem-solving

Data intuition

Curiosity

Programming & Data Viz

EDUCATION

Université Paris-Saclay (2014-2017)

(Top 20 in Academic Ranking of World Universities)

PhD in astrophysics

University of Chinese Academy of Sciences (2013-2017)

(Top 70 in Academic Ranking of World Universities)

PhD in astrophysics

Beijing Normal University (2010-2013)

Master in astrophysics

Beijing Normal University (2006-2010)

Bachelor in astronomy

(Graduate with distinguished honour, all universities in Beijing)

AWARDS

Several Scholarships and Funding Awards

- Scholarship of National Astronomical Observatory of China
- National Undergraduate Innovative Test Program Grant (10k CNY)
- ESO Science Support Discretionary Fund (9k EUR)
- The LIA-Origins Short Visit Program Grant (3k EUR)
- International Astronomical Union (IAU) Travel Grant (1k USD)

Fellowship

- ESO Fellowship (Chile)

SKILLS

Operating Systems: current versed

versed



Languages: Shell (Unix/Linux), Python (NumPy, Pandas, Matplotlib, ...)

Julia, IDL, FORTRAN, MATLAB

Softwares: VS Code, Jupyter Lab, Git, L^AT_EX, Obsidian, MS Office...