I-Da Chiang (江宜達)

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SUMMARY

Experienced astrophysics researcher transitioning to data/ML roles. Strong background in Python-based data processing, statistical modeling, and pipeline design. Skilled in cross-disciplinary , cross-culture collaboration and technical communication. Exploring opportunities in machine learning and software development.

SKILLS

- **Programming:** Python (NumPy, pandas, scikit-learn, Keras), Git, Bash, LaTeX
- **Data Science:** data preprocessing, modeling, pipeline automation, visualization (Matplotlib, seaborn)
- **AI Tools:** Generative AI (ChatGPT, Gemini, Grok)
- **Soft Skills:** scientific writing, collaborative research, project presentation

PROFESSIONAL EXPERIENCE

Postdoctoral Fellow, IAA, Academia Sinica (ASIAA) 2021–Present

- Led multi-wavelength observational projects and data modeling in astrophysics.
- Reduced and calibrated radio interferometry data (VLA, CASA); developed Python tools for pipeline automation and customization.
- Collaborated internationally and contributed to high-impact publications.

Graduate Research Assistant, University of California - San Diego (UCSD) 2016–2021

- Developed Python toolkit for spectral energy distribution (SED) fitting and physical parameter extraction.
- Reduced HI 21 cm interferometry data for 30+ galaxies using CASA software; customized processing scripts to fit sample-specific noise and resolution needs.
- Conducted comparative analysis of physical parameters across galaxy samples, using statistical and modeling tools.

EDUCATION

Ph.D. in Physics and Astronomy, University of California - San Diego
M.S. in Physics, National Taiwan University
B.S. in Physics, National Taiwan University

SUMMARY OF ACADEMIC PUBLICATIONS

9 first- or second-author journal papers; 29 journal papers in total. h-index: 19.
Full list available online: ORCID:0000-0003-2551-7148.