Yue Pan

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Education

Princeton University — Princeton, NJ
Ph.D. in Astrophysics — *Sep 2023 – May 2028*

University of Chicago — Chicago, IL
B.S. in Astrophysics; GPA: 3.90/4.0 (magna cum laude) — *Sep 2019 – Jun 2023*

Honors & Awards

Lambda Scholar, *Université de Montréal, Ciela Institute, $4000* 2023

Quad Research Scholar×2, *University of Chicago, $5000×2* 2021-2023

Dean's Fund for Undergraduate Research Conference ×2, *University of Chicago, $1500×2* 2022-2023

Odyssey Metcalf Grant, *University of Chicago, $2400* 2022

DAAD RISE Germany Scholar, *The German Academic Exchange Service, $7000* 2022

Dean's List, *University of Chicago* 2020-2022

Jeff Metcalf Fellowship, *Peking University, $5000* 2020-2021

Publications

Link to my publications in ADS and arXiv

1. **Y. Pan**, C. Simpson, A. Kravtsov, F. A. Gómez, R. J. J. Grand, F. Marinacci, R. Pakmor, V. Manwadkar and C. J. Esmerian, *"Colour and infall time distributions of satellite galaxies in simulated Milky-Way analogs"*, published in MNRAS in Dec, 2022 [arXiv:2208.13805v2]. **Paper Writing and Figures; Analysis Contributions**

2. **Y. Pan**, A. Chiti, A. Drlica-Wagner et al., *"Stellar Metallicities from DECam u-band Photometry: A Study of Milky Way Ultra-Faint Dwarf Galaxies"*, in preparation for submission to ApJ. **Paper Writing and Figures; Analysis Contributions**

3. **Y. Pan**, A. Kravtsov, *"Modelling Stochastic Star Formation History of Dwarf Galaxies in GRUMPY"*, in preparation for submission to MNRAS. **Paper writing and Figures; Analysis Contributions**

4. **Y. Pan**, A. Halder, Z.-Y.-G Gong, S. Seitz, O. Friedrich et al., *"MOPED compression on DES Year1 & Year3 two-point correlation functions (2PCF)"*, in preparation for submission to ApJ. **Paper Writing and Figures; Analysis Contributions**

5. S.-Y. Yu, C. Cheng, **Y. Pan**, F.-W. Sun, Y. Li, *"Redshifting nearby galaxies to* $0.75 \leq z \leq 3$ *viewed in JWST CEERS: Bias and uncertainty in quantifying morphology"*, published in A&A in July, 2023 [arXiv:2307.04753]. **Pipeline Development; JWST Image Analysis**

6. Y.-C. Zhang, [...], **Y. Pan** et al. *"COOL-LAMPS IV: A Sample of Bright Strongly-Lensed Galaxies at* $3 < z < 4$*"*, published in ApJ in June, 2023 [arXiv:2212.06902v2]. **Lensing Observations; Paper Comments**

7. K. Rojas, [...], **Y. Pan** et al. *"The impact of human expert visual inspection on the discovery of strong gravitational lenses"*, published in MNRAS in May, 2023 [arXiv:2301.03670v2]. **Lensing Classification; Paper Comments**

Conferences, workshops & presentations

1. **Galactic Frontiers: Dwarf Galaxies in the Local Volume and Beyond**
   Invited talk: *Stellar Metallicities from DECam u-band Photometry: A Study of Milky Way Ultra-Faint Dwarf Galaxies*
   July, 2023 — Flatiron Institute, NY

2. **Honors Thesis Presentations**
   Oral presentation: *Modelling Stochastic Star Formation History of Dwarf Galaxies in GRUMPY*
   May, 2023 — Chicago, IL

3. **Wide-Field Spectroscopy vs Galaxy Formation Theory**
   Invited attendee
   Mar, 2023 — Biosphere 2, Tucson, AZ

4. **52nd Saas-Fee Advanced Course**, *"The Circum-Galactic Medium across cosmic time : an observational and modeling challenge"*
   Invited attendee
   Mar, 2023 — Les Diablerets, Switzerland

5. **241st American Astronomical Society Meeting**
   Invited talk: *"Colour and infall time distributions of satellite galaxies in simulated Milky-Way analogs"*
   Jan, 2023 — Seattle, WA

6. **DAAD RISE Germany Research Meeting**
   Oral presentation: *"Massive data compression on convergence two-point correlation functions"*
   Aug, 2022 — Munich, Germany

Leadership & Teaching experience

- **Teaching assistant (TA) of**
  1. ASTR 20500 Introduction to Python with Astro Statistics — Fall, 2023
  2. ASTR 12060 Exoplanets — Summer, 2022
  3. ASTR 21100 Computational Astrophysics — Spring, 2022
  4. ASTR 21400 Creative Machines and Innovative Instruments — Fall, 2021
- **Society of Physics Students**, *Vice president (2022) & Outreach officer (2021)* — University of Chicago
- **Ryerson Astronomical Society**, *Webmaster (2020-2022)* — University of Chicago
- **Love's Labour's Lost**, *Dramaturg (2021)* — University Theatre
- **Science in Society**, *Writer (2020)* — Triple Helix

Outreach

- **STEM Saturdays at Homewood Science Center** — Jan, 2022
  Volunteer — Homewood, IL
- **Science in the Parks: Explore the Night Sky at Big Marsh Park** — Oct, 2021
  Volunteer — Big Marsh Park, Chicago, IL