

# Yue Pan

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## EDUCATION

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### Princeton University

*Ph.D. in Astrophysics*

Princeton, NJ

Sep 2023 – May 2028

### University of Chicago

*B.S. in Astrophysics; GPA: 3.90/4.0 (magna cum laude)*

Chicago, IL

Sep 2019 – Jun 2023

## HONORS & AWARDS

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<b>Lambda Scholar</b> , <i>Université de Montréal, Ciela Institute</i> , \$4000	2023
<b>Quad Research Scholar</b> ×2, <i>University of Chicago</i> , \$5000×2	2021-2023
<b>Dean's Fund for Undergraduate Research Conference</b> ×2, <i>University of Chicago</i> , \$1500×2	2022-2023
<b>Odyssey Metcalf Grant</b> , <i>University of Chicago</i> , \$2400	2022
<b>DAAD RISE Germany Scholar</b> , <i>The German Academic Exchange Service</i> , \$7000	2022
<b>Dean's List</b> , <i>University of Chicago</i>	2020-2022
<b>Jeff Metcalf Fellowship</b> , <i>Peking University</i> , \$5000	2020-2021

## PUBLICATIONS

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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

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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

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- **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

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- **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