Zewei "Jason" Wu

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Education

- **The University of California – San Diego (UCSD)** — 2025 – 2030
  Ph.D. student in Astrophysics
- **The University of Chicago (UChicago)** — 2021 – 2025
  B.S. in Astrophysics | GPA cumulative: 3.807/4.00 | Graduated w. Honors
- **Shady Side Academy** — 2017 – 2021
  High School Diploma | GPA: 4.16/4.20 | Cum Laude

Appointments and Research

- Galaxy Simulations Group [Ethan Nadler], UCSD — 2025 – present
- Structure Formation Group [Andrey Kravtsov], UChicago — 2021 – present
- Multiphase Gas Group [Max Grönke], Max Planck Institute for Astrophysics (MPA) — 2024 – present
- Dark Matter Group [Alex D.W.], Dark Energy Science Collaboration (DESC), LSST — 2024 – 2025
- Lens Modeling Group [Michael Gladders], COOL-LAMPS, UChicago — 2023 – 2025
- Particle Flow Reconstruction Group [Christian Herwig], LDMX, Fermilab — 2023 – 2024
- Electrodynamic Theory [Ryan Janish], SQMS, Fermilab — 2023 – 2024
- Exoplanet Group [Darryl Seligman], UChicago — 2021 – 2022

Honors and Awards

- Astronomy & Astrophysics Achievement Award, UCSD — 2025
- *Quad Research Conference Grants*, American Astronomical Society (AAS) & UChicago — 2025
- *Quad Undergraduate Research Scholar*, UChicago — 2025
- *DAAD RISE Scholar*, German Federal Foreign Office — 2024
- *Dean's Grants for Student Life* (RAS), UChicago — 2024
- *Straetz International Undergraduate Research Scholar*, UChicago — 2024
- *Harper Award for Exceptional Performance in a Course*, UChicago — 2024
- *Summer Research – Early Identification Program* (declined), The Leadership Alliance — 2024
- *Jeff Metcalf Summer Fellow*, UChicago & LSST — 2024
- *Quad Summer Undergraduate Research Scholar*, UChicago — 2023
- *Jeff Metcalf Scholar*, UChicago & Fermilab — 2023
- *Dean's List*, UChicago — 2022
- *National Merit Scholar* — 2021
- *Cum Laude Society*, Shady Side Academy — 2021

Publications

- **Zewei Wu** & Andrey Kravtsov, "On the Contribution of dwarf galaxies to reionization of the Universe", *Open Journal of Astrophysics*, (2024), https://doi.org/10.33232/001c.121193.
- Andrey Kravtsov & **Zewei Wu**, "Densities and mass assembly histories of the Milky Way satellites are not a challenge to ΛCDM", *Monthly Notices of the Royal Astronomical Society*, (2023), https://doi.org/10.1093/mnras/stad2219.
- H. Arora, **Z. Wu** et al., "Photometric analysis and light curve modeling of apparent transient 2020pni", *Journal of Emerging Investigators*. Oct, 07. (2022), *link*.
- **Zewei Wu**, Hitesh Kishore Das, & Max Gronke, "Turbulent three-phase simulations of the Circumgalactic Medium", *Monthly Notices of the Royal Astronomical Society*, [*In prep 2025*].

Leadership and Advocacy

- Director of Events of the Ryerson Astronomical Society — 2021 – 2025
- Editor in Chief of the Science in Society Review — 2023 – 2025
- Participant of UChicago's Global Connectors program — 2024 – 2025

Teaching

- Teaching Assistant for 3 undergraduate astro classes at UChicago — 2022 – 2025
- Self-organized voluntary teaching in Shicheng Elementary School in rural China — 2018 – 2024

Technical Skills

- Telescope (on-site & remote) usage includes twin Magellans, Stone Edge, and Leitner
- Python, C++, HPC/ssh, bash, Java, Wolfram, C#, html, LaTeX
- ~10 open source software repositories: github.com/Zewei-Wu