

Jiyun Di

CONTACT INFORMATION

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EDUCATION

Stony Brook University, Stony Brook, NY

August 2022 - Present

- Master of Arts in Physics (2024)

The University of Arizona, Tucson, AZ

August 2018 - May 2022

- Bachelor of Science in Astronomy (2022)
- Bachelor of Science in Mathematics (2022)
- Minor — Physics
- Cumulative GPA: 3.7 (out of 4.0)

RESEARCH EXPERIENCE

Steward Observatory, The University of Arizona, Tucson, AZ

August 2020 - Present

- Research Topic — Mapping Two Massive Galaxy Clusters Using [MMT/Binospec](#)
- Introduction — The double source plane gravitational lens system, the Eye of Horus, identified by the Subaru Hyper Suprime-Cam (HSC) survey, seems to contain two high-redshift clusters at $z \sim 0.8$ with a close separation. This research confirms the existence of the two massive clusters at $z \sim 0.8$, using [MMT/Binospec](#) data. This research also examines the structure and dynamical state of this rare double-cluster system at such a high redshift by measuring spectroscopic redshifts and calculating dynamical masses
- Outcomes — Proficient abilities of reducing spectrum data from [MMT/Binospec](#) and [Magellan/IMACS](#) for galaxy redshifts by [SpecPro](#) pipeline; experienced data analysis with IDL, DS9, Python tools; academic journal writing in \LaTeX ; improved scientific and creative thinking on research
- Project Supervisor — Prof. Eiichi Egami

IN-PREP PUBLICATION

- [1] **Jiyun Di**, Eiichi Egami, et al., “Binospec: Structure of Double Source Plane Gravitational Lens System Eye of Horus”, [Monthly Notices of the Royal Astronomical Society](#), (2022), Available: http://gxn.as.arizona.edu/Papers/Jiyun_Di_Binospec.pdf

HONORS AND AWARDS

Undergraduate Research Achievement

May 2022

In recognition of outstanding achievement in undergraduate research and significant contribution and shows originality, creativity, and a level of independence appropriate to the discipline by Steward Observatory and Department of Astronomy, the University of Arizona

Spring 2022 Math Major 4.0 GPA Award

May 2022

In recognition of math majors who maintained a perfect 4.0 major GPA up to their final term, ranked by top 4 out of 75 students in Class of 2022, with a certificate and sash (academic stole) by the Department of Mathematics, the University of Arizona

ACSS Outstanding Leader Award

September 2021

Directed major writing workshops for association members, composed the database of living and study tips for new UA Chinese students, and awarded by Association of Chinese Students and Scholars, the University of Arizona

McLean First-Generation Scholarship **June 2020**
 In recognition of as Summa Cum Laude (4.0 GPA) in maths coursework, ranked the best from 7-8 limited and eligible U of Arizona applicants, and awarded in the amount of \$2,000 by the Department of Mathematics, the University of Arizona

ACSS Progress Award **May 2019**
 In recognition of extraordinary progress for leadership improvement, outstanding performance as representative communicator, participation in outreach conferences, and awarded by Association of Chinese Students and Scholars, the University of Arizona

Bronze Medal Prize in China National Astronomy Competition **April 2016**
 In recognition of a Top-50 astronomy student in China middle schools high schools, excellent performance in written exams, proficient observational operations, and rich knowledge about fundamental astronomy and astrophysics

Encouragement Prize in China National Astronomy Competition **April 2015**
 In recognition of a Top-100 astronomy student in China middle schools and high schools, excellent performance in written exams, proficient observational operations, and rich knowledge about fundamental astronomy and astrophysics

PUBLIC TALKS **UA Astronomy Club Active Astro** *Tucson, AZ* **April 2022**

TEACHING
EXPERIENCE **Preceptor, Learning Assistant** **August 2021 - December 2021**

- Affiliation — Department of Physics, The University of Arizona, Tucson, AZ
- Course — PHYS 241: Physics II (Introductory Electricity and Magnetism)
- Duties — Lead in-class discussions, help groups working through several-pages tutorials, and attend weekly preceptor meetings
- Hours — 50 hours in total
- Supervisor — [Mr. Shawn Jackson](#)

WORK
EXPERIENCES **Publicity Department, Association of Chinese Students and Scholars at University of Arizona** *Tucson, AZ* **June 2019 - June 2021**
 Director

- Duties — Communication officer, news manager, consultant for Chinese UA student livings, website designer, several emergency mask and medical protective package distributions during the COVID-19 pandemic
- Outcomes — *Articles of Association of Chinese Students and Scholars in University of Arizona* (1st edition in simplified Chinese, effective on January 1, 2021), ~ 40 WeChat first-author essays, ~ 10 co-author essays
- Supervisor — [Prof. Shufang Su](#)

Chinese Language and Culture Day, Confucius Institute, The University of Arizona *Tucson, AZ* **November 2019**
 Volunteer

- Duties — Waiter, receptionist, traditional-medicine assistant
- Hours — 12 hours in total

Conference For Arizonian Chinese Celebrating The 70th Anniversary of People's Republic of China *Mesa, AZ* **September 2019**
 Volunteer

- Position — China national flag raiser squad captain

- Special Position — Security officer for Mr. Shi, Yuanqiang, the deputy Consul General, General of Consulate-General of People's Republic of China in Los Angeles
- Hours — 10 hours in total

SKILLS

Astronomical Image Analysis (DS9, AstroImageJ, Astropy)

Spectroscopic Data Reduction (IDL, Astropy)

Coding (Linux OS & Python; Computational physics courses: PHYS 105A, PHYS 305, ASTR 302)

Academic Journal Writing (MNRAS)

Bilingual (Proficient English, Native Mandarin)

L^AT_EX, Microsoft Office, Adobe Photoshop/Dreamweaver/Premiere/Audition/AfterEffects, etc.