

# Prof. Yuanyuan Su – Resume

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## Professional Experience

Associate Professor at University of Kentucky  
2024 – present  
Assistant Professor at University of Kentucky  
2019 – 2024 (maternity leave in 2021)  
Postdoctoral Fellow at Harvard-Smithsonian Center for Astrophysics  
2015 – 2018 (maternity leave in 2018)  
Postdoctoral Scholar at University of California, Irvine  
2013 – 2015

## Education

Ph.D. Astrophysics, December 2013 University of Alabama, Tuscaloosa, AL, USA  
B.Sc. Physics, June 2007 Sichuan University, Chengdu, Sichuan, China

## Languages

English, Chinese (native), Japanese (JLPT-N2)

## Awards

2024 American Astronomy Society High Energy Astrophysics Division Early Career Prize  
2015 University of Alabama Graduate School's Outstanding Dissertation  
2015 University of Alabama College of Arts & Sciences' Outstanding Dissertation  
2015 University of Alabama Dept. of Physics & Astronomy's Outstanding Dissertation  
2014 University of Alabama Dept. of Physics & Astronomy's Outstanding Research by a Doctoral Student  
2012–2013 Graduate Council Research Fellowship, University of Alabama  
2003 Highschool Physics Contest, 1st Prize, Sichuan, China

## PI Proposals

2024 **VLA** – **25.5 hours** – SDSS-C4 3028 – **\$40,000**  
2024 **Chandra** AO 26 – **120 ksec** – protocluster 120BOSS1348 – **\$36,000**  
2023 **IRAM** – 30 meter (WSW) – **12 hours** – Abell 1142  
2022 **IRAM** – 30 meter (OTF) – **11 hours** – Abell 1142  
2022 **XMM-Newton** AO 22 – **77 ksec** – Abell 168 N – **\$15,000**  
2021 **NSF** – AAG “A Systematic and Comprehensive Study of Black Hole-Driven Turbulence in Massive Galactic Systems” – **\$278,074**  
2020 **XMM-Newton** AO 20 – **53 ksec** – SDSS-C4 3028 – **\$63,451**  
2020 **Chandra** AO 22 – **55 ksec** – Virgo S11 – **\$50,410**  
2020 **Chandra** AO 22 – **171 ksec** – Antlia cluster – **\$90,560**  
2019 **XMM-Newton** AO 19 – **102 ksec** – Virgo CF S, SW, and W – **\$76,696**  
2018 **XMM-Newton** AO 18 – **48 ksec** – NGC 3258, NGC 3258-SW  
2018 **VLA** – **14.50 hours** – NGC 4477  
2018 **HISAKI** – **200 ksec** – NGC 5044 and Abell 2597  
2017 **Chandra** AO 19 – Archival proposal “A Systematic Study of Kelvin-Helmholtz Instability in Galaxy Clusters” – **\$78,000**  
2017 **Chandra** AO 19 – **45 ksec** – MKW4 – **\$62,611**  
2015 **XMM-Newton** AO 15 – **183 ksec** – Abell 1142 – **\$61,065**  
2015 **XMM-Newton** AO 15 – **73 ksec** – NGC 4342  
2015 **Chandra** AO 17 – **200 ksec** – Abell 586 – **\$77,625**  
2015 **Suzaku** AO 10 – **100 ksec** – NGC 4342

2015 **Suzaku** AO 10 – **100 ksec** – Abell 586  
 2014 **Chandra** AO 16 – **10 ksec** – ESO3060170-S – **\$25,568**  
 2014 **Suzaku** AO 9 – **200 ksec** – RXJ1159+5531-E, RXJ1159-5531-W  
 2014 **Suzaku** AO 9 – **200 ksec** – ESO3060170-E, ESO3060170-W  
 2014 **Suzaku** AO 9 – **100 ksec** – MKW4-WN  
 2013 **XMM-Newton** AO 13 – **196 ksec** – ESO3060170-S, ESO3060170-E  
 2013 **Suzaku** AO 8 – **230 ksec** – MKW4, MKW4-N2, MKW4-W2  
 2011 **XMM-Newton** AO 11 – **90 ksec** – NGC 3608, NGC 5982  
 2011 **Chandra** AO 13 – **55 ksec** (Chandra), **30 ksec** (XMM-Newton, joint)  
 –NGC 1400, NGC 1407-E – **\$37,471**  
 2011 **Suzaku** AO 6 – **100 ksec** – NGC 1407/1400  
 2010 **Suzaku** AO 5 – **110 ksec** – ESO3060170, ESO3060170-S – **\$26,665**

**Proposals led by students I supervised and administrated at UKy**

2024 **Chandra** AO 26 –**28 ksec** – NGC4684 – **\$24,000** (PI: Ryan Eskenasy)  
 2024 **IRAM** – 30 meter (WSW) – **15.5 hours** – SDSS-C4 3028 (PI: Shweta Jain)  
 2021 **Chandra** AO 23 –**60 ksec** – Abell 262 – **\$68,200** (PI: Arnab Sarkar)

**Selected Press  
Release**

High-Energy Astrophysics Division Announces 2024 Award Winners (**HEAD**)  
 Warm gas in the core of a galaxy cluster? – the first astrophysical results by  
 Spectroscopic Planetary Observatory “HISAKI”(JAXA)  
 Galaxy Cluster Travels Down an Intergalactic Highway (Chandra X-ray  
 observatory)  
 Women in Astronomy: Advice for Students (Astrobites)  
 Black Hole Activity Is Not Evolving in Central Cluster Galaxies (**NEWSWISE**,  
 AAS briefing)  
 Discovery of a Pre-merger Shock Wave in Abell 98: A Missing Piece in Building  
 the Most Massive Structures in Our Universe (**NEWSWISE**, AAS briefing)

**Teaching  
experience**

2024 PHY160: Physics and Astronomy for School Teachers  
 2022 AST310: Topics in Astronomy and Astrophysics  
 2021,2023 PHY600: Machine Learning And Data Science In Physics And  
 Astronomy  
 2020 AST192: Stars, Galaxies And The Universe  
 2019 AST191: The Solar System