

ZIYAN XU

Peking University ◇ Beijing 100871, China
ziyanx@pku.edu.cn

EDUCATION

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| Peking University
Ph.D Candidate in Astrophysics
Kavli Institute for Astronomy and Astrophysics | <i>Beijing, China</i>
<i>2015 - Present</i> |
| Peking University
B.S. in Astronomy, specializing in Astrophysics
Department of Astronomy | <i>Beijing, China</i>
<i>2010 - 2015</i> |

RESEARCH EXPERIENCE

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| Peking University
<i>Ph.D Researcher</i>
· Advisor: Prof. Gregory Herczeg
· <i>Probing protoplanetary disk wind with absorption line spectroscopy</i>
· <i>Dust dynamics in MRI turbulent protoplanetary disks</i>
Collaborator: Dr. Xuening Bai (Tsinghua University) | 2015 - present |
| University of California, Santa Barbara
<i>Student Intern</i>
· Advisor: Prof. Ruth Murray-Clay
· <i>The effect of MRI turbulence on pebble accretion - data analysis</i>
Analyzed simulation data and compared it with analytical theory. | 2014 - 2015 |
| Harvard-Smithsonian Center for Astrophysics
<i>Student Researcher</i>
· Advisor: Dr. Xuening Bai
· <i>The effect of MRI turbulence on pebble accretion - simulation setup</i>
Conducted pebble accretion simulations incorporating realistic disk turbulence using MHD simulations and evaluate the efficiency of the pebble accretion scenario of planetary core growth. | 2014 - 2015 |
| Peking University
<i>Undergraduate Researcher</i>
· Advisor: Prof. Zuhui Fan
· Using n-body simulation to probe the formation and evolution of cosmic large-scale structures. | 2012 - 2013 |

CONFERENCE PRESENTATIONS & SEMINARS

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| <i>Planet Formation Workshop, Tokyo, Japan</i>
· Contributed talk, <i>Dust Settling and Clumping in MRI Turbulent Protoplanetary Disks</i> (November 2019) |
| <i>Great Barriers in Planet Formation, Palm Cove, Australia</i>
· Contributed talk, <i>Probing Protoplanetary Disk Wind with Absorption Line Spectroscopy</i> (July 2019)
· Poster, <i>Dust Settling and Clumping in MRI Turbulent Protoplanetary Disks</i> (July 2019) |

***Formation and Evolution of Solar System and Exoplanetary Systems*, Urumqi, China**

- Poster, *Dust Settling and Clumping in MRI Turbulent Protoplanetary Disks* (July 2019)

East Asian Observatory, Hilo, Hawaii

- EAO Seminar Talk, *Absorption Lines as a Possible Probe of Protoplanetary Disk Wind* (March 2019)

***Astrochemistry 2018: Past, Present and Future*, California Institute of Technology, CA**

- Poster, *C II Absorption Lines as a Possible Probe of Disk Photoevaporative Wind* (July 2018)

***OWL Summer Program*, University of California, Santa Cruz, CA**

- Contributed talk, *Pebble Accretion in Turbulent Protoplanetary Disks* (July 2017, attendee July 2018)

University of New South Wales, Sydney, Australia

- Astro Seminar Talk, *Physical Processes in Protoplanetary Disks: Pebble Accretion and Disk Photoevaporation* (March 2018)

Exoplanets and Planet Formation, Shanghai, China

- Poster, *Pebble Accretion in Turbulent Protoplanetary Disks* (December 2017)

Stanford University, CA

- Invited KIPAC Tea Talk, *Pebble Accretion in Turbulent Protoplanetary Disks* (July 2017)

Earlier Conferences Attending

- Chinese Astronomical Society Annual Meeting, Peking University (September 2015)
- The Disk in Relation to The Formation of Planets And Their Protoatmospheres Workshop, International Space Science Institute - Beijing (August 2014)

TEACHING & OBSERVING EXPERIENCES

Jame Clerk Maxwell Telescope, Mauna Kea, Hawaii

- Observer, 4 nights (February 2019)

Peking University

- Teaching assistant, *Modern Astronomy* (Fall 2019 & Spring 2019)
- Teaching assistant, *Stellar Structure and Evolution* (Fall 2017)

Xinglong Station of National Astronomical Observatory

- Short-term visit to Xinglong Station of National Astronomical Observatory and The Large Sky Area Multi-Object Fiber Spectroscopic Telescope (LAMOST) (April 2011)

PUBLICATIONS

Pebble Accretion in Turbulent Protoplanetary Disks, Xu, Z., Bai, X.-N., & Murray-Clay, R. A. 2017, ApJ, 847, 52

AWARDS

- *Specialty Scholarship* (academic award) of Peking University (December 2019)

- *Presidential Scholarship* (academic award) of Peking University (December 2018)
- *National Scholarship* (academic award) of China (December 2017)
- *Student Award for Outstanding Scientific Research* of Peking University (2016 & 2017)
- *May 4th Scholarship* (academic award) of Peking University (December 2016)

TECHNICAL STRENGTHS

Computer Languages	Proficient in Python & MATLAB Familiar with C/C++ & Fortran
Software & Tools	Athena/Athena++, LaTeX, DS9, IRAF, VisIt
Language Skills	Native Mandarin speaker