

ZIYAN XU

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

EDUCATION

Peking University Ph.D Candidate in Astrophysics	<i>Beijing, China</i> 2015 - 2021 (Expected)
Peking University B.S. in Astronomy, specializing in Astrophysics	<i>Beijing, China</i> 2010 - 2015

RESEARCH EXPERIENCES

Peking University <i>Ph.D Researcher</i>	2015 - Present <i>Advisor: Prof. Gregory Herczeg</i>
<ul style="list-style-type: none">· <i>Probing protoplanetary disk wind with absorption line spectroscopy</i>· <i>Dust dynamics in MRI turbulent protoplanetary disks</i> Collaborator: Prof. Xuening Bai (Tsinghua University)· <i>Atmospheric dynamics and circulation in warm Jupiters</i> Collaborator: Prof. Adam Showman (University of Arizona / Peking University)	
University of California, Santa Barbara <i>Student Intern</i>	2014 - 2015 <i>Advisor: Prof. Ruth Murray-Clay</i>
<ul style="list-style-type: none">· <i>The effect of MRI turbulence on pebble accretion - data analysis</i>	
Harvard-Smithsonian Center for Astrophysics <i>Student Researcher</i>	2014 - 2015 <i>Advisor: Prof. Xuening Bai</i>
<ul style="list-style-type: none">· <i>The effect of MRI turbulence on pebble accretion - simulation setup</i>	

SELECTED CONFERENCE PRESENTATIONS & SEMINARS

Planet Formation Workshop, Tokyo, Japan

- Contributed talk, *Dust Settling and Clumping in MRI Turbulent Protoplanetary Disks* (November 2019)

Great Barriers in Planet Formation, Palm Cove, Australia

- Contributed talk, *Probing Protoplanetary Disk Wind with Absorption Line Spectroscopy* (July 2019)
- Poster, *Dust Settling and Clumping in MRI Turbulent Protoplanetary Disks* (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

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

SELECTED OBSERVING, TEACHING & OUTREACH EXPERIENCES

James 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)
- Volunteered at The China-US Universities Astronomy Collaboration Summit (June 2016)

Xinglong Station of National Astronomical Observatory, China

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

AWARDS

- *Specialty Scholarship (academic award)*, Peking University (December 2019)
- *Presidential Scholarship*, Peking University (December 2018)
- *National Scholarship* of China (December 2017)
- *Student Award for Outstanding Scientific Research*, Peking University (2016 & 2017)
- *May 4th Scholarship*, Peking University (December 2016)

TECHNICAL STRENGTHS

Astrophysical	Athena/Athena++, RADMC-3D, MITgcm, VisIt, DS9, IRAF
Programming	Python, MATLAB, C/C++, Fortran, shell, LaTeX
Language Skills	Native Mandarin speaker

PUBLICATIONS

- * **Xu, Z.** & Bai, X.-N., *Dust Dynamics in Turbulent Protoplanetary Disk Rings*, in prep
- *2020 **Xu, Z.** & Bai, X.-N., *Dust Settling and Clumping in MRI Turbulent Protoplanetary Disks*, to be submitted
- *2020 **Xu, Z.**, Herczeg, G. J., et al., *Probing Protoplanetary Disk Winds with C II Absorption*, to be submitted
- 2017 **Xu, Z.**, Bai, X.-N., & Murray-Clay, R. A., *Pebble Accretion in Turbulent Protoplanetary Disks*, ApJ, 847, 52