ZIYAN XU

Peking University ◇ Beijing 100871, China
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EDUCATION

Peking University *Beijing, China*
Ph.D Candidate in Astrophysics *2015 - Present*
Kavli Institute for Astronomy and Astrophysics

Peking University *Beijing, China*
B.S. in Astronomy, specializing in Astrophysics *2010 - 2015*
Department of Astronomy

RESEARCH EXPERIENCE

Peking University 2015 - present
Ph.D Researcher

- Advisor: Prof. Gregory Herczeg
- ***Probing protoplanetary disk wind with absorption line spectroscopy***
- ***Dust settling and clumping in MRI turbulent protoplanetary disks***
  Collaborator: Dr. Xuening Bai (Tsinghua University)

University of California, Santa Barbara 2014 - 2015
Student Intern

- Advisor: Prof. Ruth Murray-Clay
- ***The effect of MRI turbulence on pebble accretion - data analysis***
  Analyzed simulation data and compared it with analytical theory.

Harvard-Smithsonian Center for Astrophysics 2014 - 2015
Student Researcher

- Advisor: Dr. Xuening Bai
- ***The effect of MRI turbulence on pebble accretion - simulation setup***
  Conducted pebble accretion simulations incorporating realistic disk turbulence using MHD simulations and evaluate the efficiency of the pebble accretion scenario of planetary core growth.

Peking University 2012 - 2013
Undergraduate Researcher

- Advisor: Prof. Zuhui Fan
- Using n-body simulation to probe the formation and evolution of cosmic large-scale structures.

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 Intitute 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, Syndey, 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