

Feng Long | SMA Fellow

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Education

Peking University

Ph.D, Astrophysics

Beijing, China

2013 - 2019

Advisor - Gregory J. Herczeg

Thesis - Probing the Early Stage of Planet Formation: ALMA Surveys of Planet-forming Disks

Peking University

B.S., Astronomy

Beijing, China

2009 - 2013

Employment

Center for Astrophysics | Harvard & Smithsonian

Submillimeter Array (SMA) Fellow

USA

Sept. 2019 -

Research

Star and planet formation, protoplanetary disks, (sub)mm interferometry

Research Experiences

Jan 2018: Visiting student with Dr. Paola Pinilla, Univ. of Arizona

Sept. 2017: Visiting student at Prof. Ewine van Dishoeck's group, MPE

March 2016: Visiting student at Prof. Ilaria Pascucci's group, Univ. of Arizona

Refereed Publications

*see the full publication list on [ADS](#)

ORCID ID: [0-0002-7607-719X](#)

Total Publications: 18, with citation > 600 (March. 2021)

First Author Publications: 6, with citation > 200

Approved Observing Proposals as PI

*Involved as co-I in 6 ALMA projects, including one Large program; in 2 VLA projects, including one large program; in 1 VLT/SPHERE project; in 3 SMA projects.

7): VLA 20B, A-rank, 54h, "Testing Trapping of Large Grains in a Dust Disk Ring"

6): SMA 20B, B-rank, 8 tracks, "Mapping the Gas Environment of Heavily Veiled Young Stars"

5): SMA 20B, B-rank, 2 tracks, "Testing Binary Formation with Disk Alignment: Completing the wide binary census in Taurus"

4): SMA 20A, B-rank, 2 tracks, "Testing Binary Formation with Disk Alignment"

3): SMA 19B, A-rank, 3 tracks, "The Synergy between SMA and ALMA: test disk formation and evolution models"

2): ALMA Cycle 7 (open-sky), B-rank, 13.8h, "A Closer Look at the Small Disks"

1): ALMA Cycle 6 (open-sky), A-rank, 12.2h, "Are Large Grains Trapped in Disk Rings?"

Awards and Honors

2020: Top Cited Paper Award, AAS Publishing
2017: National Scholarship, Peking University
2016: Presidential Scholarship, Peking University
2016: Award for Community and Public Service, Peking University
2011 - 2013: National Astronomical Observatory of China Scholarship

Expertise

Astrophysical: CASA, Galario, RADMC-3D
◦ interferometer data reduction, disk modeling in uv-plane, radiative transfer
Programming: Python, IDL, shell, R, Julia and C
Language: Chinese(native speaker), English(fluent)

Teaching Experience, Service & Outreach

2020 - 2021: Co-organizer of the Lorentz workshop: "Planet-forming Disks: From Surveys to Answers", Sept. 2021, Leiden, the Netherlands
2020 - 2021: SMA Interferometry School, SOC, Cambridge, USA
2020 –: Referee for A&A
2019: NASA FINESST ASTRO19 external reviewer
2019 –: Referee for ApJ and ApJL
2019 – : CfA postdoc council member
2014 - 2018: Undergraduate Student Instructor, School of Physics, Peking University
2015: Teaching Assistant, graduate course "stellar structure and evolution", Peking University
2012: Volunteer for the XXVIIIth IAU General Assembly, Beijing
2012: Astronomy lectures about solar system to primary school students in a supporting education activity at Yunnan Province

Selected Talks

May 2021: *(invited/virtual)* Departmental Seminar, University of Leicester, UK
March 2021: *(invited/virtual)* Monday Science Seminar, University of Wisconsin-Madison, USA
March 2021: SMA Science Seminar
Jan 2021: *(invited/virtual)* Planetary Science Seminar, Caltech, USA
Dec 2020: Contributed Conference Talk, *Five years after HL Tau: a new era in planet formation*, Chile
Oct 2020: *(invited/virtual)* Colloquium, University of Massachusetts Amherst, USA
Oct 2020: *(invited/postponed to 2022)* Conference Talk, *From Clouds to Planets II: The Astrochemical Link*, Germany
May 2020: *(invited/virtual)* planet formation group meeting, Lund University, Sweden
April 2020: *(invited/virtual)* planet formation group meeting, MPIA, Germany
Oct 2019: CfA Postdoc Symposium, Cambridge, USA
June 2019: Invited Seminar, SWIFAR, Yunnan University, China
May 2019: Contributed Conference Talk, *New Horizons in Planetary Systems*, Victoria, Canada
March 2019: *(invited)* Conference Talk, *Planet-Forming Disks: A workshop to honor Antonella Natta*, Italy
Dec. 2018: SMA Seminar, SAO/CfA, Cambridge, USA
Dec. 2018: TUNA lunch Talk, NARO/UVa, Virginia, USA

Dec. 2018: Seminar, UT Austin, Austin, USA

Dec. 2018: Lunch Talk, KIAA, Beijing, China

April 2018: Graduate Dinner Talk, KIAA, Beijing, China

References

Prof. Gregory Herczeg

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Peking University

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Prof. Ilaria Pascucci

Lunar and Planetary Laboratory

University of Arizona

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Dr. Sean Andrews

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