Feng Long

Curriculum Vitae

Kavli Institute for Astronomy and Astrophysics
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Education

2013 - 2019 expected **Ph.D. candidate, Astrophysics**, *Peking University*, Beijing, China.
Advisor: Gregory J. Herczeg

2009 - 2013 **B.S., Astronomy**, *Peking University*, Beijing, China.

Research

Broad interests in star and planet formation, especially focusing on protoplanetary disks, including disk formation, the disk physical and chemical evolution, and their implications for planet formation.

- ◇ Disk substructures revealed from ALMA observations
- ◇ Gas and dust masses of protoplanetary disks
- ◇ HNC distribution in protoplanetary disks
- ◇ Disk-based stellar dynamical mass measurement

Research Experiences and Training

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

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

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

July 2015 **NRAO Single-Dish and Interferometry Schools**, Green Bank, USA.

Approved Proposals

2018 **ALMA Cycle 6 A-rank (2018.1.00614.S, Open Sky Project; PI.)**, *Are Large Grains Trapped in Disk Rings?*.

2018 **ALMA Cycle 6 A-rank (2018.1.01055.L, Large Program; co-I.)**, *The Chemistry of Planet Formation*, PI: Karin Öberg.

2018 **ALMA Cycle 6 B-rank (2018.1.00771.S; co-I.)**, *Born with siblings: will I ever get my own space?*, PI: Carlo F. Manara.

2017 **ALMA Cycle 5 A-rank (2017.1.01107.S; co-I.)**, *The chemistry of M dwarf protoplanetary disks*, PI: Karin Öberg.

2016 **ALMA Cycle 4 B-rank (2016.1.01164.S; co-I.)**, *An Unbiased Survey of Disk Structures in Taurus*, PI: Gregory J. Herczeg.

2015 **ALMA Cycle 3 B-rank (2015.1.00310.S; co-I.)**, *Searching for Accretion Luminosity Variability in Deeply Embedded Protostars*, PI: Doug Johnstone.

2015 **ALMA Cycle 3 B-rank (2015.1.00333.S; co-I.)**, *Establishing the Disk Mass-Stellar Mass Scaling Relation*, PI: Ilaria Pascucci.

2015 **JCMT Large Program (M16AL001; co-I.)**, *A Transient Search for Variable Protostars: How do stars gain their mass?*, PI: G. J. Herczeg & D. Johnstone.

Selected Honors

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

- ALMA 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

2014 - 2018 Undergraduate Student Instructor, School of Physics, Peking University

- Organizing 1-2 class meetings each semester for 25 students, and keeping track of individual student on both studies and personal life
- Organizing the Undergraduate Research Symposium, 2016, KIAA

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, Seminars & Posters

July 2018 **Poster**, *HNC Distribution in Protoplanetary Disks as Probes of Disk Structures*, Astrochemstry 2018, Pasedena, CA, USA.

April 2018 **Graduate Dinner Talk**, *ALMA Survey of Protoplanetary Disks: Dust and Gas Masses*, KIAA, Beijing, China.

March 2018 **Poster**, *An Unbiased Survey of Disk Structures in Taurus*, Star and Planet Formation in the Southwest, Tucson, USA.

Sept 2017 **Seminar**, *ALMA Survey of Protoplanetary Disks: Dust and Gas Masses*, ESO, Garching, Germany.

Aug 2017 **Conference Talk**, *An ALMA Survey of CO isotopologues in Protoplanetary Disks in Chamaeleon I*, Chinese Astronomical Society annual meeting, Xinjiang, China.

Publications [ADS Link]

First Author Papers

* **Long, F.**, Herczeg, G. J. et al., *A High-Resolution ALMA Survey of Dust Substructures in Disks in the Taurus Molecular Cloud*, in prep

* **Long, F.**, van Dishoeck, F. E., Cazzolett, P., & Facchini, S., *HNC Distribution in Protoplanetary Disks as Probes of Disk Structures*, in prep

2018 **Long, F.**, Pinilla, P., Herczeg, G. J. et al., *Gaps and Rings in an ALMA Survey of Disks in the Taurus Star-forming Region*, ApJ accepted

2018 **Long, F.**, Herczeg, G. J., Pascucci, I. et al., *An ALMA Survey of faint disks in the Chamaeleon I star-forming region: Why are some Class II disks so faint?*, ApJ, 863, 61

2017 **Long, F.**,Herczeg, G. J., Pascucci, I. et al., *An ALMA Survey of CO isotopologue emission from Protoplanetary Disks in Chamaeleon I*, ApJ, 844, 99

Contributing Papers

2018 Liu, Y, Dipierro, G, Ragusa, E, & 20 authors including **Long, F.**, *The Ring Structure in the MWC 480 Disk Revealed by ALMA*, submitted to A&A

2018 Herczeg, G. J., Johnstone, D., Mairs, S. & 54 authors including **Long, F.**, *How Do Stars Gain Their Mass? A JCMT/SCUBA-2 Transient Survey of Protostars in Nearby Star-forming Regions*, ApJ, 849, 43

2017 Holoien, T. W., Stanek, K. Z., Kochanek, C. S., & 31 authors including **Long, F.**, *The ASAS-SN bright supernova catalogue - I. 2013-2014*, MNRAS, 464, 2672

2016 Pascucci, I., Testi, L., Herczeg, G. J., **Long, F.**& 11 authors *A Steeper than Linear Disk Mass-Stellar Mass Scaling Relation*, ApJ, 831, 125

2016 Holoien, T. W., Kochanek, C. S., Prieto, J. L., & 21 authors including **Long, F.**, *Six months of multiwavelength follow-up of the tidal disruption candidate ASASSN-14li and implied TDE rates from ASAS-SN*, MNRAS, 455, 2918