Ruobing Dong

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Employment

- Assistant Professor, Department of Physics & Astronomy, University of Victoria 2018 – present
- Bart J. Bok Fellow, Steward Observatory, University of Arizona 2016 – 2018
- *NASA* Hubble Fellow, Lawrence Berkeley National Lab, University of California, Berkeley 2013 – 2016
- Summer Associate, McKinsey & Company, Beijing 2013

Education

- Princeton University, Princeton, USA
  Ph.D., Astrophysics, 2013
- Peking University, Beijing, China
  B.S., Physics, 2008

Selected Fellowships & Awards

- Sloan Research Fellowship 2020
- Bart J. Bok Fellowship, Steward Observatory, University of Arizona 2016
- *NASA* Hubble Fellowship 2013
- Extraordinary Excellence Prize, Chinese Government Award for Outstanding Self-financed Students Abroad ($10,000) 2012
- Sumsung Scholarship, Peking University 2007
- Chun-Tsung Scholar, Peking University 2006
- Kwang-Hua Scholarship, Peking University 2005, 2006

Funding

- Natural Sciences and Engineering Research Council (NSERC) Alliance International Catalyst Grant, $25,000 (CAD) 2022 – 2023
- Sloan Research Fellowship, $75,000 (USD) 2020 – 2022
- Discovery Grant, Natural Sciences and Engineering Research Council (NSERC) of Canada

$177,500 (CAD) 2018 – 2023
- Start-up Grant, University of Victoria, $100,000 (CAD) 2018

Teaching

- ASTR 255, Introduction to Planetary Science Spring 2020, 2021, 2022
- PHYS 321A, Classical Mechanics Fall 2019, 2020, 2021
- ASTR 511, Exoplanets and Their Formation Fall 2018, 2019, 2020
- ASTR 580, Directed Study – Planet Formation Spring 2021
- ASTR 580, Directed Study – Density Waves Summer 2021
- ASTR 580, Directed Study – Debris Disks Spring 2019
- PHYS 460A/460B, Colloquium Fall 2020, 2021; Spring 2021, 2022

Students Advised:

Current

- **Camryn Mullin,** Master student, University of Victoria 2022 – present
- **Xiaoyi Ma,** Master student, University of Victoria 2022 – present
- **Jessica Speedie,** Master → PhD student (NSERC CGS M & CGS D), University of Victoria 2020 – present
- **Shunyuan Mao**, Master → PhD student, University of Victoria 2019 – present
- **Jiaqing Bi**, Master → PhD student, University of Victoria 2018 – present
- **Dori Blakely**, Master student, University of Victoria, co-supervisor with Doug Johnstone 2020 – present

Former

- **Jacob Atkinson**, Undergraduate, University of Victoria 2021 – 2022
- **Xuejie Li**, Undergraduate, Shangdong University (MITACS Global Link Fellow 2021) 2021
- **Vivek Vishwanath,** Undergraduate, University of Victoria (Jamie Cassels Undergraduate Research Awards & Mitacs Research Training Award 2020) 2020 – 2021
- **Metea Marr**, Undergraduate, University of Victoria (NSERC Undergraduate Student Research Award 2020 / Honors Thesis) 2019 – 2021
- **Jiahui Sun**, Undergraduate, Nanjing University (Summer Project) 2019
- **Benny Wang**, Undergraduate, Williams College (Summer Project) 2019
- **Kali Salmas**, Undergraduate, University of Victoria (Honors Thesis) 2018 – 2019
- **Kevin Wagner**, Ph.D., University of Arizona (One-year Project) 2016 – 2017
  Kevin Wagner, Roubing Dong, et al. 2018, ApJ, 854, 130
- **Bin Ren**, Ph.D., John Hopkins University / One-year Project) 2016 – 2017
  Bin Ren, Roubing Dong, et al. 2018, ApJ, 857, 9
- **Oliver Wang**, Undergraduate, UC Berkeley (Junior year research project) 2016 – 2017

Postdocs and Research Assistants Advised:

- **Dhruv Muley**, Research Assistant 2020 – 2021
- **Nienke van der Marel**, Banting Postdoctoral Fellow 2019 – 2021

Thesis / Advisory Committee Member

- Logan Francis, PhD, UVic 2021 – present
- Matthew Wilson, PhD, UVic 2021 – present
- Lowell Peltier, PhD, UVic 2020 – present
- Katie Crotts, Master & PhD, UVic 2018 – present

Selected Press Releases / Media Exposures (links embedded)

- "ALMA catches "intruder" redhanded in rarely detected stellar flyby event"
  Press Release, Joint ALMA Observatory / National Radio Astronomy Observatory (Dong et al. 2022, Nature Astronomy) 2022 / 01
- "A Young Star's Disk Dilemma"
  AAS NOVA (Muley & Dong 2021) 2021 / 11
- "Do Planets Make Only Puffy Gaps?"
  AAS NOVA (Bi, Lin & Dong 2021) 2021 / 07
- "ALMA Discovers Misaligned Rings in Planet-Forming Disk Around Triple Stars"
  Press release, Joint ALMA Observatory / NRAO / ESO / NAOJ (Bi, van der Marel, Dong et al. 2020) 2020 / 09
- "Seeing Things in Threes"
  AAS NOVA (Bi, van der Marel, Dong et al. 2020) 2020 / 06
- "What We Don't Know About Protoplanetary Disks"
  AAS NOVA (van der Marel, Dong et al. 2019) 2019 / 04
- "Filling (Dust) Gaps in Our Knowledge of Planet Formation"
  AAS NOVA (Dong, Li, Chiang & Li 2018) 2018 / 09
- "ALMA Discover Exciting Structures in a Young Protoplanetary Disk That Support Planet Formation"
  Press release, Joint ALMA Observatory / NAOJ / ASIAA (Dong et al. 2018) 2018 / 06
- "Imaged Companion Drives Spiral Arms in Disk"
  AAS NOVA (Wagner, Dong et al. 2018, ApJ, 854, 130) 2018 / 03
- "UA Astronomers Track the Birth of a 'Super-Earth'"
  Press release, University of Arizona (Dong, Li, Chiang & Li 2017) 2017 / 07
- "Featured Image: Simulating Planetary Gaps"
  AAS NOVA (Dong & Fung 2017) 2017 / 03
- "Planet Masses from Disk Spirals"
  AAS NOVA (Fung & Dong 2015) 2015 / 12

- "Spirals in Dust Around Young Stars May Betray Presence of Massive Planets"
  Press release, NASA (Dong, Zhu, Rafikov & Stone 2015) 2015 / 10
- "Direct Infrared Image of an Arm in Disk Demonstrates Transition to Planet Formation"
  Press release, NAOJ / Princeton University (Mayama et al. 2012) 2013 / 02
- "Discovery of a Giant Gap in the Disk of a Sun-like Star May Indicate Multiple Planets"
  Press release, NAOJ / Princeton University (Hashimoto et al. 2012; Dong et al. 2012)
  2012 / 11

Successful Observing Programs

15 programs as PI on VLT, LBT, Gemini, Keck, Subaru, and ALMA; 69 programs as Co-I on Keck, Gemini, Subaru, HST, ALMA, VLA and SMA.

Listing only PI programs

- Subaru, Gemini2022AC004 (Gemini – Subaru Exchange Program), 1 night
- VLT, 106.20YJ, 2 hour
- VLT, 105.20JG, 1 hour
- VLT, 0104.C—0538, 1 hour
- LBT, 2018B, 1 night
- LBT, 2018B, 1 night
- LBT, 2017A, 1 night
- Gemini, GS-2016A-Q-33, 2.5 hours
- Keck (Acting PI Eugene Chiang), 2016A_U131N2, 0.5 night
- ALMA, Cycle 9, 2022.1.00315, 21.9 hours
- ALMA, Cycle 8, 2021.1.00690.S, 21.9 hours
- ALMA, Cycle 5, 2017.1.00492.S, 7.6 hours
- ALMA, Cycle 4, 2016.2.00168.S, 1.0 hours
- ALMA, Cycle 4, 2016.1.00262.S, 4.4 hours
- ALMA, Cycle 4, 2016.1.00110.S, 3.8 hours

Invited Talks at Conferences

Aug 2022	NCTS-ASIAA Workshop: Stars, Planets, and Formosa, Taipei, R.O.C.
Jun 2022	240th Meeting of the American Astronomical Society (AAS), Pasadena, CA
May 2022	Canadian Astronomy Society General Meeting (CASCA) 2022, online
Aug 2021	Forum on the application of Machine Learning in hydrodynamics, Kunming, Yunnan, China
Jun 2021	Chinese Planetary Science Conference, Suzhou, Jiangsu, China
Dec 2019	Workshop for Protoplanetary Disks and Exoplanets, Taipei, R.O.C.
Nov 2019	Subaru Telescope 20th Anniversary, Hilo, HI
Oct 2019	In the Spirit of Lyot 2019, Tokyo, Japan
Oct 2019	Planet^2 / RESCEU Symposium 2019, Okinawa, Japan

Jul 2019	Great Barriers in planet formation, Palm Cove, Australia
Jul 2019	Astrophysical Dynamics Conference, T. D. Lee Institute, Shanghai, China
Jun 2019	Canadian Astronomy Society General Meeting (CASCA) 2019, Montreal, QC, Canada
Dec 2018	Chinese Astronomical Society Planetary Science Division Annual Meeting, Yixing, China
Dec 2018	Mini-Workshop in Astrophysics, T. D. Lee Institute, Shanghai, China
Dec 2018	Workshop for Protoplanetary Disks and Exoplanets, Taipei, R.O.C.
Dec 2017	Exoplanets and Planet Formation, Shanghai, China
Nov 2017	Numerical Simulations of Planet-Disc Interactions, Cuernavaca, Mexico
Nov 2017	Thirty Meter Telescope Science Forum 2017, Mysuru, India
Jul 2017	TIARA/CHARMS Mini-Workshop on Disks in the Protoplanetary Systems, ASIAA, Taipei, R.O.C.
Jul 2017	Workshop on the Accreting Universe, TDLI, Shanghai, China
Jun 2017	AAS 230, Austin, TX
Mar 2017	Observational Galactic Astrophysics Symposium, Zurich, Switzerland
Sep 2016	4th Annual GMT Community Science Meeting, Pacific Grove, CA
Sep 2016	Fellows at the Frontiers, Northwestern University, Evanston, IL
Aug 2016	TIARA/CHARMS Mini-Workshop on Disks in the Protoplanetary Systems, Taipei, R.O.C.
April 2016	4th Session of the Sant Cugat Forum on Astrophysics, Sant Cugat, Spain
Mar 2016	Hubble Fellows Symposium, Baltimore, MD
Jun 2015	3rd DTA Symposium the Origins of Planetary Systems, Tokyo, Japan
Mar 2015	Hubble Fellows Symposium, Baltimore, MD

Invited Colloquia and Seminars

Sep 2022	University of Leicester, Leicester, UK
Sep 2022	TDL Institute, Shanghai, China
Sep 2022	Shanghai Astronomical Observatory, Shanghai, China
Feb 2022	Department of Astronomy, Huazhong University of Science and Technology, Wuhan, China
Feb 2022	Theoretical Astrophysics Center, UC Berkeley, Berkeley, CA
Feb 2022	Department of Physics, University of Alberta, Edmonton, Alberta, Canada
Dec 2021	Canadian Institute for Theoretical Astrophysics, Toronto, Canada
Nov 2021	Origins Seminar, University of Arizona, Tucson, AZ
Sep 2021	Department of Physics & Astronomy, University of British Columbia, Vancouver, Canada
Jun 2021	Kavli Institute of Astronomy and Astrophysics, Peking University, Beijing, China
Jan 2021	Department of Earth and Space Sciences, Southern University of Science and Technology, Shenzhen, Guangdong, China

Jan 2021	State Key Laboratory of Lunar and Planetary Sciences, The Macau University of Science and Technology, Macau, China
Aug 2020	Beijing Planetarium, Beijing, China
Aug 2020	School of Physics and Astronomy, Monash University, Melbourne, Vic, Australia
Feb 2020	Jet Propulsion Laboratory, Pasadena, CA
Dec 2019	Nanjing institute of Astronomical Optics & Technology, Nanjing, Jiangsu, China
Aug 2019	National Astronomical Observatory of China, Beijing, Beijing, China
Aug 2019	Purple Mountain Observatory, Nanjing, Jiangsu, China
Jul 2019	Department of Astronomy, Xiamen University, Xiamen, Fujian, China
Jul 2019	Department of Astronomy, University of Science and Technology of China, Hefei, Anhui, China
Jun 2019	School of Physics & Astronomy, Sun Yat-Sen University, Zhuhai, Guangdong, China
Apr 2019	National Research Council, Herzberg Astronomy and Astrophysics, Victoria, BC, Canada
Mar 2019	Department of Physics and Astronomy, Washington State University, Pullman, WA
Mar 2019	Joint ALMA Observatory, Santiago, Chile
Mar 2019	Astronomy Department, the University of Chile / Chinese Academy of Sciences South America Center for Astronomy, Santiago, Chile
Jan 2019	Department of Physics and Astronomy, McMaster University, Hamilton, Canada
Dec 2018	School of Astronomy and Space Science, Nanjing University, Nanjing, China
Dec 2018	Institute of Astronomy and Astrophysics, Academia Sinica, Taipei, R.O.C.
Jan 2018	Department of Physics and Astronomy, UNLV, Las Vegas, NV
Nov 2017	Center for Astrophysics, Tsinghua University, Beijing, China
Feb 2017	Department of Physics and Astronomy, University of Toledo, Toledo, OH
Feb 2017	Department of Physics, The University of Texas at Dallas, Dallas, TX
Feb 2017	The Institute of Astronomy, University of Hawaii, Honolulu, HI
Feb 2017	Department of Physics and Astronomy, University of Victoria, Victoria, BC, Canada
Dec 2016	Department of Physics and Astronomy, Clemson University, Clemson, SC
Nov 2016	Department of Astronomy, UVa / NRAO Joint Colloquium, University of Virginia, Charlottesville, VA
Oct 2016	Center for Exoplanets and Habitable Worlds, Pennsylvania State University, State College, PA
Sep 2016	Steward Observatory / NOAO Joint Colloquium, Steward Observatory, Tucson, AZ
Aug 2016	Department of Astronomy, UIUC, Urbana, IL
Aug 2016	Institute of Astronomy and Astrophysics, Academia Sinica, Taipei, R.O.C.
May 2016	Kavli Institute of Astronomy and Astrophysics, Peking University, Beijing, China
Feb 2016	Small Scale Seminar, CfA/Harvard, Boston, MA

Feb 2016 Department of Astronomy, University of Florida, Gainesville, FL
Feb 2016 Department of Physics, University of Montreal, Montreal, Canada
Jan 2016 Department of Astronomy, UT Austin, Austin, TX
Apr 2015 Department of Astronomy, University of Florida, Gainesville, FL
Dec 2014 Institute of Astronomy and Astrophysics, Academia Sinica, Taipei, R.O.C.
Nov 2014 Shanghai Astronomical Observatory, Shanghai, China
Nov 2014 University of Science and Technology, Hefei, China
Jun 2013 Nanjing University, Nanjing, China
May 2013 Department of Astrophysical Sciences, Princeton University, Princeton, NJ

Professional Activities and Services:

- Referee for Nature, The Astrophysical Journal, The Astrophysical Journal Letter, Monthly Notices of the Royal Astronomical Society, Astronomy and Astrophysics, Publications of the Astronomical Society of the Pacific, and Astrophysics and Space Science 2012 – present
- Grant Review Panelist
  NASA Theoretical and Computational Astrophysics Networks (TCAN), Astrophysics Theory Program (ATP), Exoplanets Research Program (XRP), Earth and Space Science Fellowship 2015 – present
- Reviewer
  NASA Postdoctoral Fellowship Program (NPP), NASA Earth and Space Science Fellowship, NASA Exoplanets Research Program (ERP), Czech Science Foundation, Chilean National Science and Technology Commission, Canadian Space Agency, China-Chile Joint Research Fund, Chinese Telescope Access Program (TAP), Fonds de Recherche du Québec – Nature et technologies (Canada) 2014 – present
- Canadian Time Allocation Committee (CanTAC) 2020 – present
- Canadian Astronomical Society (CASCA) Awards Committee 2019 – 2022
- Canadian Astronomical Society Computation and Data committee 2022 – present
- China Telescope Access Program 2020
- Telescope Allocation Committee, Steward Observatory 2016 – 2018
- Member, Thirty Meter Telescope (TMT) International Science Development Team (ISDT) 2018 – present
- Organizing Committee Co-Chair, Summer School in Protoplanetary Disks and Planet Formation, Beijing, China 2022
- Conference Scientific Organizing Committee
  "*Science workshop for synergy of Subaru/SCExAO and ALMA*", online 2022
  "*New Horizons in Planetary Systems*", Victoria 2019
  "*Aspen Center for Physics Summary Program: Unveiling the Physics of Protoplanet Formation: Connecting Theory to Observations*", Aspen, CO 2017
  "*TIARA Workshop on Astrobiology*", Taipei, R.O.C. 2015
- Seminar Organizer

CIPS Seminar, Astronomy Department, UC Berkeley 2013-2016
Wunch Seminar, Astrophysics Department, Princeton University 2012-2013
Thursday Seminar, Astrophysics Department, Princeton University 2009-2010

- Lead guest editor, Advance in Astronomy 2014
- Member, 2nd "International Summer Institute of Astrophysical Modeling", KIAA, Beijing 2011

Departmental and University Services

- Faculty Association Council, UVic 2020 – present
- Program Management Team, Astronomy Research Center (ARC), UVic 2020 – present
- Graduate Committee 2019 – present
- Colloquium Committee (Co-chair) 2019 – present
- Strategic Planning Committee 2019 – present
- Graduate Student Award Committee 2018 – 2019

Conferences Oral Presentations

Jan 2022	East Asian ALMA Science Workshop, Online
Sep 2021	Planet-forming Disks: From Surveys to Answers, Leiden, The Netherland
Jun 2021	Canada Planet Discussion Day, Online Conference
May 2019	New Horizons in Planetary Systems, Victoria, BC, Canada
June 2018	Astrophysical Frontiers in the Next Decade and Beyond, Portland, OR
May 2018	CASCA 2018, Victoria, BC, Canada
Aug 2017	EXOCLIPSE 2017: Exploring New Worlds in the Shade, Boise, ID
Mar 2017	Formation and Dynamical Evolution of Exoplanets, Aspen, CO
Nov 2016	High Contrast Imaging in Space, STScI, Baltimore, MD
July 2016	European Week of Astronomy and Space Science 2016, Athens, Greek
Dec 2015	Extreme Solar Systems III, The Big Island, HI
Sep 2015	Bay Area Exoplanet Meeting, SETI Institute, Mountain View, CA
Aug 2015	Dynamical problems in Extrasolar planets science, IAU GA FM1, Honolulu, HI
July 2015	Disc Dynamics & Planet Formation, Larnaca, Cyprus
Mar 2015	Star and Planet Formation in the Southwest, Tucson, AZ
Jun 2014	Cross-Strait Astrophysics Symposium, Taipei, R.O.C.
Apr 2013	2013 Transformational Science with ALMA Conference, The Big Island, Hawaii
Jan 2013	221st AAS Meeting, Long Beach, CA
Aug 2012	IAU Symposium 293, Beijing, China
Jun 2012	Origins of stars and their planetary systems, McMaster University, Hamilton, Canada
Oct 2011	The 2nd SEEDS General Workshop, Max Planck Institute for Astronomy, Heidelberg, Germany

Jun 2011	The International Summer Institute for Modeling in Astrophysics, Kavli Institute for Astronomy and Astrophysics, Peking University, Beijing, China
Mar 2011	The Formation of the Milky Way: The SEGUE perspective, The Ohio State University, Columbus, OH
Feb 2011	East Asian Young Astronomers Meeting 2011, Jeju, South Korea
Jun 2010	The Frontier on Interstellar Medium ------ 40th Anniversary on the Discovery of CO in ISM, Kavli Institute for Astronomy and Astrophysics, Peking University, Beijing, China
May 2010	KIAA-DoA-NAOC Joint Program on Dynamics of Astrophysical Disks, Kavli Institute for Astronomy and Astrophysics, Peking University, Beijing, China

Seminars

Mar 2017	Lunch Talk, KIAA, Peking University, Beijing, China
Jul 2016	Seminar, Carnegie DTM, D.C.
Jul 2016	Planet and Star Formation Seminar, ESO, Garching, Germany
May 2016	Seminar, University of Amsterdam, Amsterdam, The Netherland
Apr 2016	Seminar, ETH Zurich, Zurich, Switzerland
Apr 2016	Astrochem Seminar, Leiden University, Leiden, The Netherland
Sep 2015	CIPS seminar, UC Berkeley, Berkeley, CA
Sep 2014	Center for Integrative Planetary Science Seminar, Berkeley, CA
Jan 2014	Seminar, Shanghai Astronomical Observatory, Shanghai, China
Jan 2014	Computational Astrophysics Seminar, Institute of Astronomy and Astrophysics, Academia Sinica, Taipei, R.O.C.
Jan 2014	Lunch Talk, Institute of Astronomy and Astrophysics, Academia Sinica, Taipei, R.O.C.
Dec 2013	Lunch Talk, University of Wisconsin-Madison, Madison, WI
Sep 2013	Lunch Talk, Kavli Institute, Peking University, Beijing, China
May 2013	NASA Goddard Extrasolar Planets Seminar, Goddard Space Flight Center, Greenbelt, MD
Nov 2012	Star and Planet Formation Seminar, Space Telescope Science Institute, Baltimore, MD
Oct 2012	Lunch Talk, Infrared Processing and Analysis Center, Caltech, Pasadena, CA
Oct 2012	Journal Club Talk, UC Los Angeles, Los Angeles, CA
Oct 2012	FLASH Talk, UC Santa Cruz, Santa Cruz, CA
Oct 2012	Planet and Star Formation Seminar, UC Berkeley, Berkeley, CA
Oct 2012	Seminar, University of Hawaii, Honolulu, HI
Sep 2012	Radio and Geoastronomy (RG) Lunch Talk, Harvard-Smithsonian Center for Astrophysics, Boston, MA
Sep 2012	Wunch Talk, Princeton University, Princeton, NJ
Jun 2012	Journal Club Talk, University of Michigan, Ann Arbor, MI

Jun 2012	Seminar, Canadian Institute for Theoretical Astrophysics, Toronto, Canada
Oct 2011	Planet and Star Formation Lunch talk, Max Planck Institute for Astronomy, Heidelberg, Germany
Jul 2011	Lunch talk, Kavli Institute of Astronomy and Astrophysics, Peking University, Beijing, China
Jun 2011	Seminar, Shanghai Astronomical Observatory, Shanghai, China
Mar 2011	Wunch Talk, Princeton University, Princeton, NJ
Jan 2009	Geophysical and Astrophysical Fluid Dynamics Seminar, UC Santa Cruz, Santa Cruz, CA

Public Outreach Activities (selected)

- Night With A Prof, University of Victoria 2021
- Lecture in Science and Humanity, Sun Yat-Sen University, Zhuhai, Guangdong, China 2021
- Quirks & Quarks, CBC radio science news program 2021
- Planet Formation & Telescope Tech w/ Dr. Ruobing Dong, interview by prof-talks.com 2019
- Public Talk, Astronomy Day 2019, Royal BC Museum, Victoria, Canada 2019, 2022
- Interviewed in the talk show *Hubble Hangout*, hosted by NASA 2015
- Volunteer, Cal Day at UC Berkeley 2015
- Volunteer, Astronomy Day at the California Academy of Sciences, San Francisco 2015
- Translation of the English website of the *Citizen Science* project *Disk Detective* into Chinese 2014

Publications

Refereed Journal Publication Statistics (NASA ADS, August 2022)

- Total: 110 (citations: 5000+ / *h*-index: 41)
- First Author: 27 (citations: 1800+)
- Supervisee + Second Author: 21

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Links to publications: http://www.astro.uvic.ca/~rbdong/astro/Publications.html

I am listed as one of the first 3 authors in ~50%, and one of the first 10 authors in ~85% of my refereed journal publications. As the standard practice in astronomy, authors are usually ranked in publications according to their individual contributions. One exception is that advisee (e.g., students, research associates, postdocs) projects usually have the advisee as the lead author.

Refereed Journal Publications: Lead Author – 27

1. *A Likely Flyby of Binary Protostar Z CMa Caught in Action*
   Ruobing Dong, Hauyu Baobab Liu, Nicolas Cuello, Christophe Pinte et al., **2022, Nature Astronomy, 6, 331**
2. *Observational Signatures of Planets in Protoplanetary Disks: Planet-induced Line Broadening in Gaps*
   Ruobing Dong, Sheng-yuan Liu & Jeffrey Fung, **2019, The Astrophysical Journal, 870, 72**
3. *Multiple Disk Gaps and Rings Generated by a Single Super-Earth. II. Spacings, Depths, and Number of Gaps, with Application to Real Systems*
   Ruobing Dong, Shengtai Li, Eugene Chiang & Hui Li, **2018, The Astrophysical Journal, 866, 110**
4. *Spiral Arms in Disks: Planets or Gravitational Instability?*
   Ruobing Dong, Joan R. Najita, & Sean Brittain, **2018**, **The Astrophysical Journal, 862, 103**
5. *The Eccentric Cavity, Triple Rings, Two-Armed Spirals, and Double Clumps of the MWC 758 Disk*
   Ruobing Dong, Sheng-yuan Liu, Josh Eisner, Sean Andrews, Jeffrey Fung, Zhaohuan Zhu, Eugene Chiang, et al., **2018**, **The Astrophysical Journal, 860, 124**
6. *Multiple Disk Gaps and Rings Generated by a Single Super-Earth*
   Ruobing Dong, Shengtai Li, Eugene Chiang & Hui Li, **2017, The Astrophysical Journal, 843, 127**
7. *The Sizes and Depletions of the Dust and Gas Cavities in the Transitional Disk J160421.7-213028*
   Ruobing Dong, et al., **2017, The Astrophysical Journal, 836, 201**
8. *What is the Mass of a Gap-Opening Planet?*
   Ruobing Dong & Jeffrey Fung, **2017, The Astrophysical Journal, 835, 146**
9. *How Bright are Planet-Induced Spiral Arms in Scattered Light?*
   Ruobing Dong & Jeffrey Fung, **2017, The Astrophysical Journal, 835, 38**
10. *How Spirals and Gaps Driven by Companions in Protoplanetary Disks Appear in Scattered*

Light at Arbitrary Viewing Angles
Ruobing Dong, Eugene Chiang & Jeffrey Fung, **2016, The Astrophysical Journal, 826, 75**

11. *Stability and Occurrence Rate Constraints on the Planetary Sculpting Hypothesis for Transitional Disks*
Ruobing Dong & Rebekah I. Dawson, **2016, The Astrophysical Journal, 825, 77**
12. *Signatures of Gravitational Instability in Resolved Images of Protostellar Disks*
Ruobing Dong, Eduard Vorobyov, Yaroslav Pavlyuchenkov, Eugene Chiang & Hauyu Liu, **2016, The Astrophysical Journal, 823, 141**
13. *An M Dwarf Companion and Its Induced Spiral Arms in the HD 100453 Protoplanetary Disk*
Ruobing Dong, Zhaohuan Zhu, Jeffrey Fung, Roman Rafikov, Eugene Chiang, & Kevin Wagner, **2016, The Astrophysical Journal Letters, 816L, 12**
14. *Spiral Arms in Gravitationally Unstable Protoplanetary Disks as Imaged in Scattered Light*
Ruobing Dong, Cassandra Hall, Ken Rice & Eugene Chiang, **2015, The Astrophysical Journal Letters, 812L, 32**
15. *The Effects of Self-Shadowing by a Puffed-up Inner Rim in Scattered Light Images of Protoplanetary Disks*
Ruobing Dong 2015, The Astrophysical Journal, 810, 6
16. *Observational Signatures of Planets in Protoplanetary Disks: Spiral Arms Observed in Scattered Light Imaging Can be Induced by Planets*
Ruobing Dong, Zhaohuan Zhu, Roman Rafikov, & James Stone, **2015 The Astrophysical Journal Letters, 809L, 5**
17. *Observational Signatures of Planets in Protoplanetary Disks I: Gaps Opened by Single and Multiple Young Planets in Disks*
Ruobing Dong, Zhaohuan Zhu, & Barbara Whitney, **2015, The Astrophysical Journal, 809, 93**
18. *X-ray Properties of Intermediate-mass Black Holes in Active Galaxies. III. Spectral Energy Distribution and Possible Evidence for Intrinsically X-ray-weak AGNs*
Ruobing Dong, Jenny E. Greene, & Luis C. Ho, **2012, The Astrophysical Journal, 761, 73**
19. *The Structure of Pre-transitional Protoplanetary Disks I: Radiative Transfer Modeling of the Disk+Cavity in the PDS 70 system*
Ruobing Dong, Jun Hashimoto, Roman Rafikov, Zhaohuan Zhu, Barbara Whitney, et al., **2012, The Astrophysical Journal, 760, 111**
20. *The Missing Cavities in the SEEDS Polarized Scattered Light Images of Transitional Protoplanetary Disks: A Generic Disk Model*
Ruobing Dong, Roman Rafikov, Zhaohuan Zhu, Lee Hartmann, Barbara Whitney, +51 others, **2012, The Astrophysical Journal, 750, 161**
21. *Density Waves Excited by Low-Mass Planets in Protoplanetary Disks II: High-Resolution Simulations of the Nonlinear Regime*
Ruobing Dong, Roman R. Rafikov, and James M. Stone, **2011, The Astrophysical Journal, 741, 57**
22. *Density Waves Excited by Low-Mass Planets in Protoplanetary Disks I: Linear Regime*
Ruobing Dong, Roman R. Rafikov, James M. Stone, and Cristobal Petrovich, **2011, The Astrophysical Journal, 741, 56**
23. *Investigation of the Errors in Sloan Digital Sky Survey Proper-motion Measurements Using*

Samples of Quasars
Ruobing Dong, James Gunn, Gillian Knapp, Constance Rockosi, and Michael Blanton, **2011, The Astronomical Journal, 142, 116**

24. *Hα and Free-Free Emission from the Warm Ionized Medium*
Ruobing Dong & B.T. Draine, **2011, The Astrophysical Journal, 727, 35**
25. *Dusty Disks Around White Dwarfs I: Origin of Debris Disks*
Ruobing Dong, Yan Wang, D.N.C. Lin & X.-W. Liu, **2010, The Astrophysical Journal, 715, 1036**
26. *A Systematic Search for X-Ray Cavities in the Hot Gas of Galaxy Groups*
Ruobing Dong, Jesper Rasmussen, & John Mulchaey, **2010, The Astrophysical Journal, 712, 883**
27. *Buoyant Bubbles in Intracluster Gas: Effects of Magnetic Fields and Anisotropic Viscosity*
Ruobing Dong & James Stone, **2009, The Astrophysical Journal, 704, 1309**

Refereed Journal Publications: Second-Author, or Advisee as the Lead Author (US: Undergraduate Student / RA: Research Assistant / GS: Graduate Student / PDF: Postdoctoral Fellow) – 21

28. *Gap Opening and Inner Disk Structure in the Strongly Accreting Transition Disk of DM Tau*
Logan Francis (**GS**), Nienke van der Marel, Doug Johnstone, Eiji Akiyama, Simon Bruderer, **Ruobing Dong**, Jun Hashimoto, Hauyu Baobab Liu, Takayuki Muto, and Yi Yang, 2022, **The Astrophysical Journal, 164, 105**
29. *Two Rings and a Marginally Resolved, 5 AU, Disk Around LkCa 15 Identified Via Near Infrared Sparse Aperture Masking Interferometry*
Dori Blakely (**GS**), Logan Francis, Doug Johnstone, Anthony Soulain, Peter Tuthill, Anthony Cheetham, Joel Sanchez-Bermudez, Anand Sivaramakrishnan, **Ruobing Dong**, Nienke van der Marel, Rachel Cooper, Arthur Vigan, Faustine Cantalloube 2022, **The Astrophysical Journal, 931, 3**
30. *The Appearance of Vortices in Protoplanetary Disks in Near-Infrared Scattered Light*
Metea Marr (**UG**) & **Ruobing Dong**, 2022, **The Astrophysical Journal, 930, 80**
31. *Observing planet-driven dust spirals with ALMA*
Jessica Speedie (**GS**), Richard A. Booth & **Ruobing Dong**, 2022, **The Astrophysical Journal, 930, 40**
32. *CI Tau: A controlled experiment in disk-planet interaction*
Dhruv Muley (**RA**), & **Ruobing Dong**, 2021, **The Astrophysical Journal Letters, 921, L34**
33. *Observational Signatures of Planets in Protoplanetary Disks: Temperature structures in spiral arms*
Dhruv Muley (**RA**), **Ruobing Dong** & Jeffrey Fung, 2021, **The Astronomical Journal, 162, 129**
34. *An asymmetric dust ring around a very low mass star ZZ Tau IRS*
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