Curriculum Vitae Richard Teague

Contact Information	Department of Earth, Atmospheric, and Planetary Sciences Massachusetts Institute of Technology Cambridge, MA 02139, USA	(+1) 617-495-7259 https://richteague.github.io rteague@mit.edu	
EMPLOYMENT	Massachusetts Institute of Technology Department of Earth, Atmospheric and Planetary Sciences Assistant Professor	Jul. 2022 – Present	
	Smithsonian Astrophysical Observatory Research Associate	May 2022 – Apr. 2025	
	Center for Astrophysics   Harvard & Smithsonian Submillimeter Array Fellow	Sep. 2019 – Apr. 2022	
	University of Michigan Postdoctoral Researcher	May 2017 – Jul. 2019	
	Max-Planck-Institute for Astronomy Postdoctoral Researcher	Jan. 2017 – Apr. 2017	
EDUCATION	Max-Planck-Institute for Astronomy, Heidelberg, Germany Ph.D. in Astronomy (Magna Cum Laude)	Oct. 2013 – Jan. 2017	
	<b>University of Edinburgh</b> , Edinburgh, United Kingdom MPhys Astrophysics (First Class Honours)	Sep. 2008 – May 2013	
Honours & Awards	pH Lectureship Recognize a CfA scientist who shows exceptional promise early in their career.	Jun. 2022	
	Harvard Data Science Initiative Research Fund (\$9,700)  Regularized Maximum Likelihood Imaging: A New Method for Detecting Planets	Mar. 2020	
	Ernst Patzer Award  Awarded for the best refereed publication by a young scientist.	Nov. 2016	
	Pre-Honours Certificate of Merit  Awarded for top 5% performance in pre-honours exams.	May 2011	
	Pre-Honours Certificate of Merit  Awarded for top 5% performance in pre-honours exams.	May 2010	
PUBLICATION SUMMARY	<b>20 lead author papers</b> , including one published in <i>Nature</i> , and 74 co-author papers, totaling <b>2521 citations</b> (ADS). A full publication list, including those currently under review, can be found at the end of the CV.		
OBSERVATIONAL TIME SUMMARY	I have been awarded over <b>332 hours</b> (480 hours) of time on <b>ALMA</b> as PI (co-I), including as the exoALMA Large Program of which I am PI, <b>20 hours</b> (165 hours) on <b>IRAM</b> telescopes as PI (co-I), <b>46 hours</b> (30 hours) on the <b>SMA</b> as PI (co-I) and <b>8 hours</b> (18 hours) on <b>JWST</b> as co-PI (co-I). I have also been a co-investigator on projects for the <b>VLA</b> , the <b>VLT</b> and the <b>Magellan</b> telescopes, with awards of 50 hours, 25 hour and 2 nights, respectively. A break down of PI proposals can be found at the end of the CV.		
Professional Services	Vertical Shear Instability Meeting SOC  Virtual Meeting	Nov. 2022	
	SMA Interferometry School SOC SMA, Hilo, Hawaii, USA	Mar. 2021	
	Advanced Data Analysis Techniques for ALMA SOC NRAO, Charlottesville, Virginia, USA [postponed due to Covid-19]	Oct. 2020	
	SMA Seminar Organizer  Departmental Seminar Series	2020 - 2021	

	Visualizing the Kinematics of Planet Formation SOC Flatiron Institute, New York City, USA	Oct. 2019
	Postdoc and Research Scientist DEI Representative  Department Diversity, Equity and Inclusion Committee Member	2018 – 2019
	Equi-Tea Organizer  Diversity, Equity and Inclusion Journal Club	2018 – 2019
	Stars, Planets and Formation Seminar Organizer  Departmental Seminar Series	2018 – 2019
	Conversations on Equity and Inclusion Co-organizer  Joint Physics / Astronomy / Space Sciences DEI Colloquium Series	2018 – 2019
	NESSF External Reviewer	2018, 2020
	Heidelberg MPG Student Workshop Organizer	2016
	PSF Coffee Organizer  Departmental Seminar Series	2015 – 2017
	MPIA Student Representative	2015 – 2017
	MPIA Student Workshop Organizer	2015, 2016
	IMPRS Graduate Student Representative	2013 – 2017
	Referee for AAS, A&A, MNRAS and Nature journals	
SUPERVISION	Haochuan Yu Beijing Normal University Undergraduate student.	2020 -
	Alessandra Canta Harvard University Undergraduate student. Co-supervised with Karin Öberg, Harvard	2020 -
	Felipe Alcaron University of Michigan  Graduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich.	2019 – 2020
	Jenny Calahan University of Michigan Graduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich.	2019 – 2020
	<b>Deryl Long</b> University of Michigan  Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich.	2019
	Case Hazewinkel University of Michigan  Undergraduate student. Co-supervised with Ted Bergin, UMich.	2019
	Jeanne Kwon University of Michigan Undergraduate Research Opportunity Program	2018 – 2019
	<b>Julian Penzinger</b> Ludwig Maximilian University Summer student. Co-supervised with Dmitry Semenov, MPIA.	2016, 2018
Talks & Seminars	University of Florida Astronomy Colloquium  Detecting the Youngest Planets	Feb. 2022 (invited)
	Penn State CEHW Seminar Series  Detecting the Youngest Planets	Feb. 2022 (invited)
	Pan-Experiment Galactic Science Group Seminar Series  Detecting Molecular Line Polarization in Protoplanetary Disks	Nov. 2021 (invited)
	Munich Join Astronomical Colloquium  Mapping the Assembly of Planetary Systems in 6 Dimensions	Oct. 2021 (invited)
	Center for Astrophysics Colloquium  Mapping the Assembly of Planetary Systems in 6 Dimensions	Sep. 2021 (invited)
	ETH Zurich Exoplanets & Habitability Seminar Witnessing the Assembly of Planetary Systems	May 2021 (invited)
	Cambridge Exoplanet Center Seminar Witnessing the Assembly of Planetary Systems	May 2021 (invited)

Towards the Comprehensive Characterization of Exoplanets: Science at the Interface of Multiple Measurement Techniques	Apr. 2021
Transforming ALMA into a Planet Hunting Facility	
McMaster University Astrophysics Seminar Witnessing the Assembly of Planetary Systems	Apr. 2021 (invited)
Circumplanetary Disks II	Mar. 2021
Observations and Observational Predictions	(invited)
Max Planck Research Group Selection Symposium	Feb. 2021
Witnessing the Assembly of Planetary Systems	(invited)
Caltech Dix Planetary Science Department Seminar Planet Formation in Six Dimensions	Feb. 2021 (invited)
Five Years After HL Tau: A New Era in Planet Formation Observing the Kinematics of Gaseous Substructures	Dec. 2020
Research Unit Transition Disks (RUTD) Conference Observing the Dynamics of Planet Disk Interactions	Oct. 2020 (invited)
From Clouds to Planets II: The Astrochemical Link	Oct. 2020
ALMA's 3D View of Planet Formation [postponed due to Covid-19]	(invited)
Exoplanets III Kinematical Detection and Characterizing of Protoplanets with ALMA	July 2020
MPIA Königstuhl Colloquium	July 2020
Visualizing the Assembly of Planetary Systems	(invited)
JPL Astrophysics Colloqium  Witnessing the Dynamics of Planetary Assembly	Nov. 2019 (invited)
Visualizing the Kinematics of Planet Formation	Oct. 2019
Exploiting ALMA's Potential for Planet Hunting	001. 2010
Gordon Research Seminar	June 2019
Unveiling the Dynamics of Planet Formation	
IAU Symposium 350: Laboratory Astrophysics	Apr. 2019
The Physical Conditions of Planet Formation with Molecular Excitation	(invited)
Planet-Forming Disks	Mar. 2019
Unveiling the Dynamics of Planet Formation	(invited)
NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA	Oct. 2018 (invited)
LMU Munich Astronomy Colloquium	Aug. 2018
Using Kinematics to Search for Embedded Protoplanets	(invited)
University of Tübingen Astronomy Seminar	Aug. 2018
Kinematical Detections of Embedded Protoplanets	(invited)
Astrophysical Frontiers in the Next Decade and Beyond	Apr. 2018
The First Kinematical Detection of Embedded Protoplanets	
Magnetic Fields or Turbulence A Spatially Resolved Search for Turbulence in TW Hya	Feb. 2018
MPIA Patzer Awards Colloquium	Nov. 2016
Measuring Turbulence in TW Hya with ALMA: Methods and Limitations	(invited)
MPIA Königstuhl Colloquium	Nov. 2016
Observing the Earliest Stages of Planet Formation	(invited)
Astrochemistry with ALMA Cycle 4  Detecting Turbulence in Protoplanetary Disks	Jun. 2016 (invited)
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Sant-Cugat Forum on Astrophysics Turbulence in Protoplanetary Disks: Methods and Limitations	Apr. 2016
Protoplanetary Discussions	Mar. 2016
Turbulence in TW Hya	IVIAI. 2010
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	Chemical Diagnostics of Star and Planet Formation  Deuterium Fraction in Protoplanetary Disks	Jan. 2015 (invited)
	ZAG - IPAG - MPIA Workshop on Planet Formation  Deuterium Fraction in DM Tau	Jan. 2015 (invited)
Successful Telescope	SMA PI: Teague, R., 30 hours, 2020A-S033, A ranked Is the Magneto-Rotational Instability Driving Protoplanetary Disk Evolution?	2021b
PROPOSALS (AS PI)	<b>ALMA</b> PI: <b>Teague</b> , <b>R.</b> , 183 hours, 2021.1.01123.L, A ranked co-PIs: Bensity, M., Facchini, S., Fukagawa, M. & Pinte, C. <i>exoALMA Large Program</i>	2021
	<b>JWST</b> co-Pls: Cugno, G. & <b>Teague</b> , <b>R.</b> , 8 hours, 2153,  Detecting a Young 2 Jupiter Mass Planet Embedded in the Disk of HD 163296	Cycle 1
	<b>SMA</b> PI: <b>Teague, R.</b> , 6 hours, 2020A-S033, B ranked A 3D Exploration of an Edge-On Self-Gravitating Disk	2020b
	<b>SMA</b> PI: <b>Teague, R.</b> , 10 hours, 2020A-S033, A ranked A 3D Exploration of an Edge-On Self-Gravitating Disk	2020a
	<b>ALMA</b> PI: <b>Teague, R.</b> , 13.8 hours, 2019.1.01357.S, A ranked Constraining the H2 Surface Density Profile in IM Lup	2019
	<b>ALMA</b> PI: <b>Teague</b> , <b>R.</b> , 3.0 hours, 2019.1.00794.S, B ranked Detecting the Photoevaporative Wind in IM Lup	2019
	<b>ALMA</b> PI: <b>Teague, R.</b> , 33.2 hours, 2019.1.00419.S, B ranked <i>Mapping the 3D Kinematic Structure of Planet Formation</i>	2019
	<b>ALMA</b> PI: <b>Teague, R.</b> , 20.2 hours, 2018.A.00021.S, DDT Confirmation of an Embedded Planet in the Disk of TW Hya	2019
	Magellan/MagAO PI: Teague, R., 6 hours Searching for Wide Separation Planets in AS 209	2018
	<b>ALMA</b> PI: <b>Teague</b> , <b>R.</b> , 6.7 hours, 2018.1.00980.S, A ranked An Unambiguous Detection of a Magnetic Field in a Protoplanetary Disk	2018
	<b>ALMA</b> PI: <b>Teague, R.</b> , 5.3 hours, 2016.1.00440.S, A ranked Model Independent Study of Turbulence and Temperature in TW Hya	2016
	<b>IRAM PdBI</b> PI: <b>Teague, R.</b> , 19.9 hours, W14BI, C ranked Disk Diagnostics with Deuteration	2014
(AS CO-I)	Including over 355 hours with <b>ALMA</b> , 150 hours with <b>IRAM</b> telescopes, 30 hours with the <b>SMA</b> , 50 hours with the <b>VLA</b> , 70 hours with <b>VLT</b> (X-SHOOTER, SPHERE and CRIRES), 2 nights with <b>Magellan</b> (MagAO/MagAOx) and 18 hours with <b>JWST</b> .	
Outreach	University of Michigan Lowbrow Astronomers  How to Find Baby Planets	Nov. 2020
SCHOOL PARTICIPATION	45th Saas-Fee Course From Protoplanetary Disks to Planet Formation	2015
	Heidelberg Graduate School on Fundamental Physics	2015
	DIANA Protoplanetary Disk School	2014
Observing Experience	Sub-Millimeter Array Monthly rota	Sep. 2019 –
	MPG/ESO 2.2m 14 nights	2016
TEACHING	Wavefront Analysis Laboratory Instructor	2014

## PUBLICATIONS (LEAD AUTHOR)

- 20. **Teague, R.**, Bae, J., Andrews, S. M., et al., ApJ, under review Mapping the Complex Kinematic Substructure in the TW Hya Disk
- 19. **Teague, R.**, Bae, J., Benisty, M., et al., ApJ, 930, 144 *Gas and Dust Shadows in the TW Hydrae Disk*
- 18. **Teague, R.**, Law, C. J., Huang, J. et al., JOSS, 6 disksurf: Extracting the 3D Structure of Protoplanetary Disks
- 17. **Teague, R.**, Bae, J., Aikawa, Y., et al., ApJS, 257 MAPS XVIII: Kinematic Substructure in the Disks of HD 163296 and MWC 480
- 16. **Teague, R.**, Hull, C. L. H., Bergin, E. A., et al., ApJ, 922 *Discovery of Molecular Line Polarization in the Disk of TW Hya*
- 15. **Teague, R.** & Loomis, R. A., ApJ, 899 The Excitation Conditions of CN in TW Hya
- 14. **Teague, R.**, Jankovic, M. R., Haworth, T. J., et al., MNRAS, 495 *A Three Dimensional View of Gomez's Hamburger*
- 13. **Teague, R.**, 2019, IAU Proceedings Series, 350

  Tracing The Physical Conditions of Planet Formation with Molecular Excitation
- 12. **Teague, R.**, Bae, J., Huang, J., Bergin, E. 2019, ApJL, 884 *Spiral Structure in the Gas Disk of TW Hya*
- 11. **Teague, R.**, Bae, J., Bergin, E. 2019, Nature, 574

  Meridional Flows in the Disk Around a Young Star
- 10. **Teague, R.**, 2019, Journal of Open Source Software, 4 *GoFish: Fishing for Line Observations in Protoplanetary Disks*
- 9. **Teague, R.**, 2019, RNAAS, 3 [non-refereed] Statistical Uncertainties in Moment Maps of Line Emission
- 8. **Teague, R.**, 2019, Journal of Open Source Software, 4 *eddy: Extracting Protoplanetary Disk Dynamics with Python*
- 7. **Teague, R.**, Bae, J., Birnstiel, T. & Bergin, E., 2018, ApJ, 868 *Evidence For A Vertical Dependence on the Pressure Structure in AS 209*
- 6. **Teague, R.** & Foreman-Mackey, D., 2018, RNAAS, 2 [non-refereed] A Robust Method to Measure Centroids of Spectral Lines
- 5. **Teague, R.**, Henning, T., Guilloteau, S., et al., 2018, ApJ, 864 *Temperature, Mass, and Turbulence: A Spatially Resolved Multiband Non-LTE Analysis of CS in TW Hya*
- 4. **Teague, R.**, Bae, J., Bergin, E. A., et al., 2018, ApJL, 860 A Kinematical Detection of Two Embedded Jupiter-mass Planets in HD 163296
- 3. **Teague, R.**, Semenov, D., Gorti, U., et al., 2017, ApJ, 835 Surface Density Perturbations in the TW Hydrae Disk at 95 au Traced by Molecular Emission
- 2. **Teague, R.**, Guilloteau, S., Semenov, D., et al., 2016, A&A, 592 *Measuring turbulence in TW Hya with ALMA: methods and limitations*
- 1. **Teague, R.**, Semenov, D., Guilloteau, S., et al., 2015, A&A, 574 *Chemistry in disks. IX. Observations and modelling of HCO*<sup>+</sup> *and DCO*<sup>+</sup> *in DM Tauri*

## (CO-AUTHOR)

- All papers with a substantial component of student supervision are marked.
- 74. Bae, J., **Teague, R.**, Andrews, S. M., et al., ApJL, in press *Kinematics and Brightness Temperature of Transition Discs*
- 73. Wölfer, L., Facchini, S., van der Marel, N., et al., A&A, in press *Kinematics and Brightness Temperature of Transition Discs*
- 72. Law, C. J., Crystian, S., **Teague, R.**, et al., ApJ, 932 [student paper] CO Line Emission Surfaces and Vertical Structure in Mid-Inclination Protoplanetary Disks
- 71. Ilee, J. D., Walsh, C., Jennings, J., , et al., MNRAS, in 515 Unveiling the outer dust disc of TW Hya with deep ALMA observations
- 70. Pinte, C., **Teague**, **R.**, Flaherty, K., et al., Protoplanets & Planets VII, *under review Kinematic Structures in Planet-Forming Disks*

- 69. Long, F., Andrews S. M., Rosotti, G., et al., ApJ, 931

  Gas Disk Sizes from CO Line Observations: A Test of Angular Momentum Evolution
- 68. Hull, C. H. L., Haifeng Y., Cortés, P. C., et al., ApJ, 930 *Polarization from Aligned Dust Grains in the β Pic Debris Disk*
- 67. Bohn, A. J., Benisty, M., Perraut, K., et al., A&A, 658 Probing Inner and Outer Disk Misalignments in Transition Disks
- 66. Yu, H., **Teague, R.**, Bae, J. & Öberg, K., ApJL, 920 [student paper] Mapping the 3D Kinematical Structure of the Gas Disk of HD 169142
- 65. Öberg, K. I., Guzmán, V. V., Walsh, C., et al., ApJS, 257 MAPS I: Program Overview and Highlights
- 64. Czekala, I., Loomis, R. A., **Teague, R.**, et al., ApJS, 257

  MAPS II: CLEAN Strategies for Synthesizing Images of Molecular Line Emission in Protoplanetary Disks
- 63. Law C. J., Loomis, R. A., **Teague, R.**, et al., ApJS, 257 [student paper] MAPS III: Characteristics of Radial Chemical Substructures
- 62. Law C. J., **Teague, R.**, Loomis, R. A., et al., ApJS, 257 [student paper] MAPS IV: Vertical Disk Chemical Structures
- 61. Zhang, K., Booth, A. S., Law, C. J., et al., ApJS, 257 MAPS V: CO Gas Distributions
- 60. Guzmán, V., Ö, K. I., Aikawa, Y., et al., ApJS, 257 MAPS VI: Distribution of the small organics HCN,  $C_2H$  and  $H_2CO$
- 59. Bosman, A., Alarcon, F., Bergin, E. A., et al., ApJS, 257

  MAPS VII: Sub-stellar O/H and C/H and Super-stellar C/O in Planet Feeding Gas
- 58. Alarcon, F., Bosman, A., Bergin, E. A., et al., ApJS, 257 MAPS VIII: Gap chemistry in AS 209 Gas Depletion or Chemical Processing?
- 57. Ilee, J. D., Walsh, C., Booth, A. S., et al., ApJS, 257 MAPS IX: Distribution and properties of the Large Organic molecules HC<sub>3</sub>N, CH<sub>3</sub>CN and c-C<sub>3</sub>H<sub>2</sub>
- 56. Cataldi, G., Yamato, Y., Aikawa, Y., et al., ApJS, 257 *MAPS X: Distributions of Deuterated Molecules*
- 55. Bergner, J., Öberg, K. I., Bosman, A., et al., ApJS, 257 MAPS XI: CN and HCN as Tracers of Photochemistry in Disks
- 54. Le Gal, R., Öberg, K. I., Aikawa, Y., et al., ApJS, 257 MAPS XII: Inferring the C/O and S/H ratios in Protoplanetary Disks with Sulfur Molecules
- 53. Aikawa, Y., Cataldi, G., Yamato, Y., et al., ApJS, 257 MAPS XIII: HCO<sup>+</sup> and Disk Ionization
- 52. Sierra, A., Peréz, L. M., Guzmán, V. V., et al., ApJS, 257

  MAPS XIV: Revealing Dust Disks Substructures From Nulti-wavelength Continuum Emission
- 51. Bosman, A., Bergin, E. A., Öberg, K. I., et al., ApJS, 257 MAPS XV: Tracing Protoplanetary Disk Structure Within 20 AU
- 50. Booth, A. S., Tabone, B., Aikawa, Y., et al., ApJS, 257 MAPS XVI: Zooming in on the HD 163296 Disk Wind with CO Isotopologues
- 49. Calahan, J., Bergin, E. A., Zhang, K., et al., ApJS, 257 MAPS XVII: Uncovering the 2D Thermal Structure of HD 163296
- 48. Huang, J., Bergin, E. A., Öberg, K. I., et al., ApJS, 257

  MAPS XIX: Spiral Arms, a Tail, and Diffuse Structures Traced by CO Toward the GM Aur Disk
- 47. Schwarz, K., Calahan, J., Zhang, K., et al., ApJS, 257 MAPS XX: The Massive Disk Around GM Aurigae
- 46. Canta, A., **Teague, R.**, le Gal., R., et al., ApJ, 922 [student paper] The first detection of CH<sub>2</sub>CN in a protoplanetary disk
- 45. Benisty, M., Bae, J., Facchini, S., et al., ApJL, 916 A Circumplanetary Disk Around PDS 70c
- 44. Andrews, S. M., Elder, W., Zhang, S., et al., ApJ, 916

  Limits on Millimeter Continuum Emission from Circumplanetary Material in the DSHARP Disks

- 43. Long, F., Andrews, S. M., Vega, J., et al., ApJ, 915

  The Architecture of the V892 Tau System: the Binary and its Circumbinary Disk
- 42. Rich, E., **Teague, R.**, Monnier, J., et al. ApJ, 913

Are Small Dust Grains actually coupled to the Gas in Protoplanetary Disks?

- 41. Pegues, J., Öberg, K. I., Bergner, J. B., et al., ApJ, 911 An ALMA Survey of Chemistry in Disks around Late-Type M-Stars
- 40. Facchini, S., **Teague, R.**, Bae, J., et al. ApJ, 162 *The chemical inventory of the planet-hosting disk PDS 70*
- 39. Boehler, Y., Ménard, F., Robert, C. M. T., et al. A&A, 650 *Vortex-like kinematic signal, spirals, and beam smearing effect in the HD 142527 disk*
- 38. Bae, J., **Teague, R.**, Zhu, Z., ApJ, 912

  Tightly-Wound Spirals Driven by Buoyancy Resonance in Protoplanetary Disks
- 37. Cleeves, L. I., Loomis, R. A., **Teague, R.**, et al., ApJ, 911 The TW Hya Rosetta Stone Project IV: A hydrocarbon rich disk atmosphere
- 36. Pegues, J., Czekala, I., Andrews, S. M., ApJ, 908

  Dynamical Masses and Stellar Evolutionary Model Predictions of Low-Mass M-Stars
- 35. Harrison, R. E., Looney, L. W., Stephens, I. W., et al., ApJ, 908

  ALMA CN Zeeman Observations of AS 209: Limits on Magnetic Field Strength and Magnetically Driven Accretion Rate
- 34. Garufi, A., Podio, L., Codella, C., et al., A&A, 645

  ALMA chemical survey of disk-outflow sources in Taurus (ALMA-DOT V)
- 33. Calahan, J., Bergin, E. A., Zhang, K., et al., ApJ, 908
  [student paper] Uncovering the Thermal Profile of a Typical Gaseous Protoplanetary Disk
- 32. Wölfer, L., Facchini, S., Kurtovic, N. T., et al. A&A, 648 *A highly non-Keplerian protoplanetary disc*
- 31. Terwisscha, J. v. S., Hogerheijde, M. R., Cleeves, L. I., et al., ApJ, 906 Spatially resolved emission of formaldehyde hints at low-temperature gas-phase formation
- 30. Öberg, K., Cleeves, L. I., Bergner, J., et al., AJ, 161 Radial and vertical distributions of DCN and DCO<sup>+</sup> in the TW Hya disk
- 29. Podio, L., Garufi, A., Codella, C., et al., A&A, 644 ALMA chemical survey of disk-outflow sources in Taurus (ALMA-DOT II)
- 28. Alarcón, F., **Teague, R.**, Zhang, K., et al., ApJ, 905
  [student paper] Chemical Evolution in a Protoplanetary Disk with Dust Substructures
- 27. White, J. A., Kóspál, Á, Hughes, A. G. Hughes, et al., 2020, ApJ, 904 ALMA and VLA Observations of EX Lupi in its Quiescent State
- 26. Stephens, I. W., Fernández-López, M., Li, Z.-H., et al., 2020, ApJ, 901 Low Level Carbon Monoxide Line Polarization in two Protoplanetary Disks
- 25. Hall, C., Dong, R., **Teague, R.,**, et al., ApJ, 904 *Kinematic Evidence for Gravitational Instability*
- 24. Long, D. E., Zhang, K., **Teague, R.**, et al., 2020, ApJL, 895 [student paper] Hints of a Population of Solar System Analog Planets from ALMA
- 23. Facchini, S., Benisty, M., Bae, J., et al., 2020, A&A, 639 Annular substructures in the transition disks around LkCa 15 and J1610
- 22. Garufi, A., Codella, C., Rygl, K., et al., 2020, A&A, 636 ALMA chemical survey of disk-outflow sources in Taurus (ALMA-DOT I)
- 21. Rosotti, G., **Teague, R.**, Dullemond, C., et al., 2020, MNRAS, 495 The Efficiency of Dust Trapping in Ringed Protoplanetary Discs
- 20. Semenov, D. & **Teague**, **R.** 2020, Europhysics News, 51 Accretion disks around young stars: the cradles of planet formation
- 19. Huang, J., Andrews, S. M., Dullemond, C. P., et al., 2020, ApJ, 891 A multi-frequency ALMA characterization of substructures in the GM Aur protoplanetary disk
- 18. Rosotti., G., Benisty, M., Juhazs, A., et al., 2020, MNRAS, 491 Spiral arms in the proto-planetary disc HD100453 detected with ALMA

- 17. Bae, J., Zhu, Z., Baruteau, C., et al., 2019, ApJL, 884
- An Ideal Testbed for Planet-disk Interaction: Two Giant Protoplanets in Resonance Shaping the PDS 70 Disk
- 16. Isella, A., Benisty, M., Teague, R., et al., 2019, ApJL, 879

Detection of Continuum Submillimeter Emission Associated with Candidate Protoplanets

15. Cleeves, L. I., Loomis, R. A., Teague, R., et al., 2019, BAAS, 51

Realizing the Unique Potential of ALMA to Probe the Gas Reservoir of Planet Formation

14. Lyra, W., Haworth, T., Bitsch, B., et al., 2019, BAAS, 51

Planet formation âĂŤ The case for large efforts on the computational side

13. Gallo, E., Teague, R., Plotkin, R. M., et al., 2019, MNRAS, 488

ALMA observations of A0620-00: fresh clues on the nature of quiescent black hole X-ray binary jets

12. Schwarz, K., **Teague, R.**, Bergin, E., et al., 2019, ApJL, 876.

Line Ratios Reveal N2H+ Emission Originates above the Midplane in TW Hydrae

11. Keppler, M., **Teague, R.**, Bae, J., et al., 2019, A&A, 625

[student paper] Highly structured disk around the planet host PDS 70 revealed by high-angular resolution observations

10. Semenov, D., Favre, C., Fedele, D., et al., 2018, A&A, 617

Chemistry in disks. XI. Sulfur-bearing species as tracers of protoplanetary disk physics and chemistry: the DM Tau case

- 9. Flaherty, K. M., Hughes, A. M., **Teague**, **R.**, et al., 2018, ApJ, 856 *Turbulence in the TW Hya Disk*
- 8. Fedele, D., Tazzari, M., Booth, R., et al., 2018, A&A, 610

ALMA continuum observations of the protoplanetary disk AS 209. Evidence of multiple gaps opened by a single planet

7. Flock, M., Nelson, R. P., Turner, N. J., et al., 2017, ApJ, 850

Radiation Hydrodynamical Turbulence in Protoplanetary Disks: Numerical Models and Observational Constraints

6. Dutrey, A., Guilloteau, S., Piétu, V., et al., 2017, A&A, 607

The Flying Saucer: Tomography of the thermal and density gas structure of an edge-on protoplanetary disk

5. Beuther, H., Linz, H., Henning, T., et al., 2017, A&A, 605

Multiplicity and disks within the high-mass core NGC 7538IRS1.

4. Parfenov, S. Y., Semenov, D. A., Henning, T., et al., 2017, MNRAS, 468

On the methanol emission detection in the TW Hya disc: the role of grain surface chemistry and non-LTE excitation

3. van Boekel, R., Henning, T., Menu, J., et al., 2017, ApJ, 837

Three Radial Gaps in the Disk of TW Hydrae Imaged with SPHERE

2. Haworth, T. J., Ilee, J. D., Forgan, D. H., et al., 2016, PASA, 33

Grand Challenges in Protoplanetary Disc Modelling

1. Feng, S., Beuther, H., Semenov, D., et al., 2016, A&A, 593

Inferring the evolutionary stages of the internal structures of NGC 7538 S and IRS1 with chemistry