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 Kerr McGee Development 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.	Sep. 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 87 co-author papers, including one published in <i>Nature</i> , totaling <b>3512 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>26 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>HST</b> , <b>VLA</b> , the <b>VLT</b> and the <b>Magellan</b> telescopes, with awards of 70 hours, 25 hour and 2 nights, respectively. A break down of PI proposals can be found at the end of the CV.		
Professional Services	exoALMA Start of Science Workshop  Boston, MA, USA	Dec. 2022	
	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	

Visualizing the Kinematics of Planet Formation SOC Filation Institute, New York City, USA Postidos and Research Scientist DEI Representative Department Diversity, Equity and Inclusion Committee Member  Equi-Tea Organizer Diversity, Equity and Inclusion Countilities Member  Equi-Tea Organizer Departmental Seminar Series Conversations on Equity and Inclusion Co-organizer Joint Physics / Astronomy / Space Sciences DEI Colloquium Series  NESSE External Reviewer Heidelberg MPG Student Workshop Organizer Departmental Seminar Series  MPIA Student Representative MPIA Student Representative MPIA Student Workshop Organizer Departmental Seminar Series MPIA Student Workshop Organizer Departmental Period Seminar Series MPIA Student Workshop Organizer Defartmental Period Seminar Series MPIA Student Workshop Organizer Defartmental Period Seminar Series MPIA Student Workshop Organizer Defartmental Department Seminar Department Seminar Department		SMA Seminar Organizer  Departmental Seminar Series	2020 - 2021
Department Diversity, Equity and Inclusion Committee Member		Visualizing the Kinematics of Planet Formation SOC	Oct. 2019
Diversity, Equity and Inclusion Journal Club		•	2018 – 2019
Departmental Seminar Series   Conversations on Equity and Inclusion Co-organizer   2018 – 2019   2011   2011   1994cs / Astronomy / Space Sciences DEI Colloquium Series   2018, 2020   Heidelberg MPG Student Workshop Organizer   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2017   2015 – 2016   2015 – 2017   2015 – 2016   2015 – 2016   2015 – 2016   2015 – 2017   2015 – 2016   2015 – 201		•	2018 – 2019
SUPERVISION   NESSF External Reviewer   2018, 2020     Heidelberg MPG Student Workshop Organizer   2015 - 2017     PSF Coffee Organizer   2015 - 2017     Departmental Seminar Series   2015 - 2017     MPIA Student Representative   2015 - 2016     MPIA Student Workshop Organizer   2015 - 2016     IMPRS Graduate Student Representative   2013 - 2017     Referee for AAS, A&A, MNRAS and Nature journals     SUPERVISION   Aldan van Duzer MIT   2023 - Undergraduate Research Opportunity Program   2022 - Undergraduate Research Opportunity Program   4aochuan Yu Beijing Normal University   2020 - 2022   Undergraduate student.   Co-supervised with Karin Öberg, Harvard   2020 - 2021   Undergraduate student.   Co-supervised with Fed Bergin and Ke Zhang, UMich.   2019 - 2020   Graduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019 - 2020   Graduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019 - 2020   Graduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019 - 2020   Graduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019 - 2020   Graduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019 - 2020   Graduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019   Undergraduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019   Undergraduate student.   Co-supervised with Ted Bergin and Ke Zhang, UMich.   2019		· · · · · · · · · · · · · · · · · · ·	2018 – 2019
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Gordon Conference on the Origins of Solar Systems  Witnessing the Formation of Giant Planets and their Moons  MATH + X: Planet Formation and Habitability  Jun. 2023  (invited)  May 2023	_		
·		Gordon Conference on the Origins of Solar Systems	Jun. 2023
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Boston University Astrophysics Seminar	May 2023
Witnessing the Formation of Giant Planets and their Moons	(invited)
MIT Haystack Colloquium	Apr. 2023
Witnessing the Formation of Giant Planets and their Moons	(invited)
Ohio State University Astronomy Colloquium  Witnessing the Formation of Giant Planets and their Moons	Mar. 2023 (invited)
Harvard University Department of Earth and Planetary Sciences Colloquium Witnessing the Formation of Giant Planets and their Moons	Feb. 2023 (invited)
From Clouds to Planets II: The Astrochemical Link  ALMA'S 3D View of Planet Formation	Oct. 2022 (invited)
Center for Astrophysics   Harvard & Smithsonian pH Lecture  Exploring the Youngest Planetary Systems	Sep. 2022 (invited)
University of Florida Astronomy Colloquium  Detecting the Youngest Planets	Feb. 2022
Penn State CEHW Seminar Series	Feb. 2022
Detecting the Youngest Planets	(invited)
Pan-Experiment Galactic Science Group Seminar Series	Nov. 2021
Detecting Molecular Line Polarization in Protoplanetary Disks	(invited)
Munich Join Astronomical Colloquium	Oct. 2021
Mapping the Assembly of Planetary Systems in 6 Dimensions	(invited)
Center for Astrophysics   Harvard & Smithsonian Colloquium	Sep. 2021
Mapping the Assembly of Planetary Systems in 6 Dimensions	(invited)
ETH Zurich Exoplanets & Habitability Seminar Witnessing the Assembly of Planetary Systems	May 2021 (invited)
Cambridge Exoplanet Center Seminar	May 2021
Witnessing the Assembly of Planetary Systems	(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	Apr. 2021
Witnessing the Assembly of Planetary Systems	(invited)
Circumplanetary Disks II Observations and Observational Predictions	Mar. 2021 (invited)
	Feb. 2021
Max Planck Research Group Selection Symposium Witnessing the Assembly of Planetary Systems	(invited)
Caltech Dix Planetary Science Department Seminar	Feb. 2021
Planet Formation in Six Dimensions	(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	Oct. 2020
Observing the Dynamics of Planet Disk Interactions	(invited)
Exoplanets III	July 2020
Kinematical Detection and Characterizing of Protoplanets with ALMA	
MPIA Königstuhl Colloquium  Visualizing the Assembly of Planetary Systems	July 2020 (invited)
JPL Astrophysics Colloqium Witnessing the Dynamics of Planetary Assembly	Nov. 2019 (invited)
Visualizing the Kinematics of Planet Formation  Exploiting ALMA's Potential for Planet Hunting	Oct. 2019
Gordon Research Seminar Unveiling the Dynamics of Planet Formation	June 2019

	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 Using Kinematics to Search for Embedded Protoplanets	Aug. 2018 (invited)
	University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets	Aug. 2018 (invited)
	Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets	Apr. 2018
	,	E   0040
	Magnetic Fields or Turbulence	Feb. 2018
	A Spatially Resolved Search for Turbulence in TW Hya	N 0040
	MPIA Patzer Awards Colloquium	Nov. 2016
	Measuring Turbulence in TW Hya with ALMA: Methods and Limitations	(invited)
	MPIA Königstuhl Colloquium Observing the Earliest Stages of Planet Formation	Nov. 2016
	, , , , , , , , , , , , , , , , , , ,	(invited)
	Astrochemistry with ALMA Cycle 4  Detecting Turbulence in Protoplanetary Disks	Jun. 2016
	, ,	(invited)
	Sant-Cugat Forum on Astrophysics Turbulence in Protoplanetary Disks: Methods and Limitations	Apr. 2016
	Protoplanetary Discussions  Turbulence in TW Hya	Mar. 2016
	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 PROPOSALS	JWST PI: Benisty, M., 18 hours, 3254 coPIs: Facchini, S., Fukagawa, M., Pinte, C. & Teague, R. Direct detection of kinematically-detected protoplanet candidates	Cycle 2
(AS [CO-]PI)	<b>ALMA</b> PI: <b>Teague, R.</b> , 18 hours, 2022.1.00840.S, A ranked The Most Sensitive Search for Magnetic Fields in a Solar Nebula Analogue	2022
	<b>ALMA</b> PI: <b>Teague, R.</b> , 5 hours, 2022.1.00887.S, B ranked Ultra-High Velocity Resolutions of the Planet-Disk Interactions in TW Hya	2022
	<b>ALMA</b> PI: <b>Teague, R.</b> , 11 hours, 2022.1.00799.S, C ranked <i>Mapping the Influence of Magnetic Fields on the Evolution of HD 163296</i>	2022
	<b>ALMA</b> PI: <b>Teague, R.</b> , 33 hours, 2022.1.00993.S, C ranked <i>Mapping the Magnetic Field Morphology in TW Hya</i>	2022
	SMA PI: Teague, R., 30 hours, 2020A-S033, A ranked  Is the Magneto-Rotational Instability Driving Protoplanetary Disk Evolution?	2021b
	<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. exoALMA Large Program	2021
	JWST Pls: Cugno, G. & Teague, R., 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, 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</b> , <b>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 480 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), 3 orbits with <b>HST</b> 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	12.410 - Observational Techniques for Optical Astronomoy	2022
	Wavefront Analysis Laboratory Instructor	2014
PUBLICATIONS (LEAD AUTHOR)	20. <b>Teague, R.</b> , Bae, J., Andrews, S. M., et al., 2022, ApJ, 936, 163  Mapping the Complex Kinematic Substructure in the TW Hya Disk	
	19. <b>Teague, R.</b> , Bae, J., Benisty, M., et al., 2022, ApJ, 930, 144  Gas and Dust Shadows in the TW Hydrae Disk	
	18. <b>Teague, R.</b> , Law, C. J., Huang, J. et al., 2021, JOSS, 6 disksurf: Extracting the 3D Structure of Protoplanetary Disks	
	17. <b>Teague, R.</b> , Bae, J., Aikawa, Y., et al., 2021, ApJS, 257  MAPS XVIII: Kinematic Substructure in the Disks of HD 163296 and MWC 480	
	16. <b>Teague, R.</b> , Hull, C. L. H., Bergin, E. A., et al., 2021, ApJ, 922 Discovery of Molecular Line Polarization in the Disk of TW Hya	
	15. <b>Teague, R.</b> & Loomis, R. A., 2020, ApJ, 899  The Excitation Conditions of CN in TW Hya	
	14. <b>Teague, R.</b> , Jankovic, M. R., Haworth, T. J., et al., 2020, 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+ and DCO+ in DM Tauri

(CO-AUTHOR) All papers with a substantial component of student supervision are marked.

- 87. Fu, R. R., Steele, S. C., Simon, J. B., et al., PSJ, in press Implications for chondrule formation regions and solar nebula magnetism from statistical reanalysis of chondrule paleomaanetism
- 86. Portilla-Revelo1, B., Kamp, I., Facchini, S., et al., A&A, in press Constraining the gas distribution in the PDS 70 disk as a method to assess the effect of planet-disk interactions
- 85. Calcino, J., Price, D. J., Pinte, C., et al., MNRAS, in press Observational Signatures of Circumbinary Discs I: Kinematics
- 84. Balsalobre-Ruza, O., de Gregorio-Monsalvo, I., Lillo-Box, I., et al., A&A, in press Tentative co-orbital submillimeter emission within the Lagrangian point L5 of the protoplanet PDS 70 b
- 83. De, K., MacLeod, M., Karambelkar, V., et al., Nature, 617 An infrared transient from a star engulfing a planet
- 82. Lankhaar, B., Teague, R., A&A, in press

3D magnetic field imaging of protoplanetary disks using Zeeman broadening and linear polarization observations

- 81. Galloway-Spreitsma, M., Bae, J., Teague, R., et al., ApJ, in press MAPS: Complex Kinematics in the AS 209 Disk Induced by Forming Planet and Disk Winds
- 80. Law, C. J., Teague, R., Öberg, K., , et al., ApJ, in press [student paper] Mapping Protoplanetary Disk Vertical Structure with CO Isotopologue Line Emission
- 79. Pinte, C., Teague, R., Flaherty, K., et al., 2023Protoplanets & Planets VII, in press Kinematic Structures in Planet-Forming Disks
- 78. Stadler, J., Benisty, M., Izquierdo, A., et al., 2023, A&AL, 670 A kinematically-detected planet candidate in a transition disk
- 77. Calahan, J., Bergin, E. A., Bosman, A. D., et al., 2023, Nature Astronomy, 94c UV-Driven Chemistry as a Signpost of Late-stage Planet Formation

- 76. Muñoz-Romero, C. E. Öberg, K. I., Law, C. J., et al., 2023 ApJ, 943 *Cold Deuterium Fractionation in the Nearest Planet-Forming Disk*
- 75. Alarcon, F., Bergin, E. A. & **Teague, R.**, 2022, ApJL, 941

  A localized kinematic structure detected in atomic carbon emission spatially coincident with a proposed protoplanet in the HD 163296 disk
- 74. Garg, H., Pinte, C., Price, D. J., et al., 2022, MNRAS, 517, 4 *Kinematic evidence for a planet carving the gap of HD169142*
- 73. Bae, J., **Teague, R.**, Andrews, S. M., et al., ApJL, 934 MAPS: A Circumplanetary Disk Candidate in Molecular-line Emission in the AS 209 Disk
- 72. Wölfer, L., Facchini, S., van der Marel, N., et al., 2022, A&A, in press *Kinematics and Brightness Temperature of Transition Discs*
- 71. Law, C. J., Crystian, S., **Teague, R.**, et al., 2022, ApJ, 932 [student paper] CO Line Emission Surfaces and Vertical Structure in Mid-Inclination Protoplanetary Disks
- 70. Ilee, J. D., Walsh, C., Jennings, J., , et al., 2022, MNRAS, in 515 Unveiling the outer dust disc of TW Hya with deep ALMA observations
- 69. Long, F., Andrews S. M., Rosotti, G., et al., 2022, 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., 2022, ApJ, 930 Polarization from Aligned Dust Grains in the  $\beta$  Pic Debris Disk
- 67. Bohn, A. J., Benisty, M., Perraut, K., et al., 2022, A&A, 658 *Probing Inner and Outer Disk Misalignments in Transition Disks*
- 66. Yu, H., **Teague, R.**, Bae, J. & Öberg, K., 2021, 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., 2021, ApJS, 257 MAPS I: Program Overview and Highlights
- 64. Czekala, I., Loomis, R. A., **Teague, R.**, et al., 2021, 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., 2021, ApJS, 257 [student paper] MAPS III: Characteristics of Radial Chemical Substructures
- 62. Law C. J., **Teague, R.**, Loomis, R. A., et al., 2021, ApJS, 257 [student paper] MAPS IV: Vertical Disk Chemical Structures
- 61. Zhang, K., Booth, A. S., Law, C. J., et al., 2021, ApJS, 257 MAPS V: CO Gas Distributions
- 60. Guzmán, V., Ö, K. I., Aikawa, Y., et al., 2021, 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., 2021, 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., 2021, 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., 2021, 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., 2021, ApJS, 257 MAPS X: Distributions of Deuterated Molecules
- 55. Bergner, J., Öberg, K. I., Bosman, A., et al., 2021, ApJS, 257 MAPS XI: CN and HCN as Tracers of Photochemistry in Disks
- 54. Le Gal, R., Öberg, K. I., Aikawa, Y., et al., 2021, 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., 2021, ApJS, 257 MAPS XIII: HCO<sup>+</sup> and Disk Ionization
- 52. Sierra, A., Peréz, L. M., Guzmán, V. V., et al., 2021, ApJS, 257 MAPS XIV: Revealing Dust Disks Substructures From Nulti-wavelength Continuum Emission

- 51. Bosman, A., Bergin, E. A., Öberg, K. I., et al., 2021, ApJS, 257 MAPS XV: Tracing Protoplanetary Disk Structure Within 20 AU
- 50. Booth, A. S., Tabone, B., Aikawa, Y., et al., 2021, 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., 2021, ApJS, 257 MAPS XVII: Uncovering the 2D Thermal Structure of HD 163296
- 48. Huang, J., Bergin, E. A., Öberg, K. I., et al., 2021, 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., 2021, ApJS, 257 MAPS XX: The Massive Disk Around GM Aurigae
- 46. Canta, A., **Teague**, **R.**, le Gal., R., et al., 2021, 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., 2021, ApJL, 916 A Circumplanetary Disk Around PDS 70c
- 44. Andrews, S. M., Elder, W., Zhang, S., et al., 2021, ApJ, 916

  Limits on Millimeter Continuum Emission from Circumplanetary Material in the DSHARP Disks
- 43. Long, F., Andrews, S. M., Vega, J., et al., 2021, ApJ, 915

  The Architecture of the V892 Tau System: the Binary and its Circumbinary Disk
- 42. Rich, E., **Teague**, **R.**, Monnier, J., et al. 2021, 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., 2021, ApJ, 911 *An ALMA Survey of Chemistry in Disks around Late-Type M-Stars*
- 40. Facchini, S., **Teague, R.**, Bae, J., et al., 2021, ApJ, 162 *The chemical inventory of the planet-hosting disk PDS 70*
- 39. Boehler, Y., Ménard, F., Robert, C. M. T., et al., 2021, A&A, 650 *Vortex-like kinematic signal, spirals, and beam smearing effect in the HD 142527 disk*
- 38. Bae, J., **Teague, R.** & Zhu, Z., 2021, ApJ, 912 *Tightly-Wound Spirals Driven by Buoyancy Resonance in Protoplanetary Disks*
- 37. Cleeves, L. I., Loomis, R. A., **Teague, R.**, et al., 2021, ApJ, 911 The TW Hya Rosetta Stone Project IV: A hydrocarbon rich disk atmosphere
- 36. Pegues, J., Czekala, I., Andrews, S. M., 2021, 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., 2021, 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., 2021, 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., 2021, ApJ, 908
  [student paper] The TW Hya Rosetta Stone Project. III. Resolving the Gaseous Thermal Profile of the Disk
- 32. Wölfer, L., Facchini, S., Kurtovic, N. T., et al., 2021, A&A, 648 *A highly non-Keplerian protoplanetary disc*
- 31. Terwisscha, J. v. S., Hogerheijde, M. R., Cleeves, L. I., et al., 2021, ApJ, 906 Spatially resolved emission of formaldehyde hints at low-temperature gas-phase formation
- 30. Öberg, K., Cleeves, L. I., Bergner, J., et al., 2021, AJ, 161

  The TW Hya Rosetta Stone Project. I. Radial and vertical distributions of DCN and DCO<sup>+</sup> in the TW Hya disk
- 29. Podio, L., Garufi, A., Codella, C., et al., 2020, A&A, 644 ALMA chemical survey of disk-outflow sources in Taurus (ALMA-DOT II)
- 28. Alarcón, F., **Teague, R.**, Zhang, K., et al., 2020, 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., 2020, 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

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- 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

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- 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