Curriculum Vitae Richard Teague

Contact Information	Department of Earth, Atmospheric, and Planetary Sciences Massachusetts Institute of Technology	(+1) 617-495-7259 https://richteague.github.io	
	Cambridge, MA 02139, USA	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	
	University of Edinburgh , Edinburgh, United Kingdom MPhys Astrophysics (First Class Honours)	Sep. 2008 – May 2013	
Honours &	pH Lectureship	Jun. 2022	
AWARDS	Recognize a CfA scientist who shows exceptional promise early in their career.	Mar 2020	
	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	19 lead author papers , including one published in <i>Nature</i> , and 72 co-author papers, totaling 2356 citations (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 265 hours (335 hours) of time on ALMA as PI (co-I), including as the exoALMA Large Program of which I am PI, 20 hours (165 hours) on IRAM telescopes as PI (co-I), 46 hours (30 hours) on the SMA as PI (co-I) and 8 hours (18 hours) on JWST as co-PI (co-I). I have also been a co-investigator on projects for the VLA , the VLT and the Magellan 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	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	2020 -
	Undergraduate student. Co-supervised with Karin Öberg, Harvard	
	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
	Deryl Long 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
	Julian Penzinger 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	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 Towards the Comprehensive Characterization of Exoplanets:	(invited)
	Science at the Interface of Multiple Measurement Techniques Transforming ALMA into a Planet Hunting Facility	Apr. 2021

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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 Witnessing the Assembly of Planetary Systems	Feb. 2021 (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 ALMA's 3D View of Planet Formation [postponed due to Covid-19]	Oct. 2020 (invited)
Exoplanets III	July 2020
Kinematical Detection and Characterizing of Protoplanets with ALMA	
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 Exploiting ALMA's Potential for Planet Hunting	Oct. 2019
Gordon Research Seminar	June 2019
Unveiling the Dynamics of Planet Formation	
IAU Symposium 350: Laboratory Astrophysics The Physical Conditions of Planet Formation with Molecular Excitation	Apr. 2019 (invited)
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Planet-Forming Disks Unveiling the Dynamics of Planet Formation	Mar. 2019 (invited)
Planet-Forming Disks	Mar. 2019
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar	Mar. 2019 (invited) Oct. 2018
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited)
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets Magnetic Fields or Turbulence	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited) Apr. 2018
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets Magnetic Fields or Turbulence A Spatially Resolved Search for Turbulence in TW Hya MPIA Patzer Awards Colloquium	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited) Apr. 2018 Feb. 2018 Nov. 2016
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets Magnetic Fields or Turbulence A Spatially Resolved Search for Turbulence in TW Hya MPIA Patzer Awards Colloquium Measuring Turbulence in TW Hya with ALMA: Methods and Limitations MPIA Königstuhl Colloquium	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited) Apr. 2018 Feb. 2018 Nov. 2016 (invited)
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets Magnetic Fields or Turbulence A Spatially Resolved Search for Turbulence in TW Hya MPIA Patzer Awards Colloquium Measuring Turbulence in TW Hya with ALMA: Methods and Limitations MPIA Königstuhl Colloquium Observing the Earliest Stages of Planet Formation Astrochemistry with ALMA Cycle 4	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited) Apr. 2018 Feb. 2018 Nov. 2016 (invited) Nov. 2016 (invited) Jun. 2016
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets Magnetic Fields or Turbulence A Spatially Resolved Search for Turbulence in TW Hya MPIA Patzer Awards Colloquium Measuring Turbulence in TW Hya with ALMA: Methods and Limitations MPIA Königstuhl Colloquium Observing the Earliest Stages of Planet Formation Astrochemistry with ALMA Cycle 4 Detecting Turbulence in Protoplanetary Disks Sant-Cugat Forum on Astrophysics	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited) Apr. 2018 Feb. 2018 Nov. 2016 (invited) Nov. 2016 (invited) Jun. 2016 (invited)
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets Magnetic Fields or Turbulence A Spatially Resolved Search for Turbulence in TW Hya MPIA Patzer Awards Colloquium Measuring Turbulence in TW Hya with ALMA: Methods and Limitations MPIA Königstuhl Colloquium Observing the Earliest Stages of Planet Formation Astrochemistry with ALMA Cycle 4 Detecting Turbulence in Protoplanetary Disks Sant-Cugat Forum on Astrophysics Turbulence in Protoplanetary Disks: Methods and Limitations Protoplanetary Discussions	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited) Apr. 2018 Feb. 2018 Nov. 2016 (invited) Nov. 2016 (invited) Jun. 2016 (invited) Apr. 2016
Planet-Forming Disks Unveiling the Dynamics of Planet Formation NAOJ Theoretical Astronomy Seminar Observing the Kinematics of Planet-Disk Interactions with ALMA LMU Munich Astronomy Colloquium Using Kinematics to Search for Embedded Protoplanets University of Tübingen Astronomy Seminar Kinematical Detections of Embedded Protoplanets Astrophysical Frontiers in the Next Decade and Beyond The First Kinematical Detection of Embedded Protoplanets Magnetic Fields or Turbulence A Spatially Resolved Search for Turbulence in TW Hya MPIA Patzer Awards Colloquium Measuring Turbulence in TW Hya with ALMA: Methods and Limitations MPIA Königstuhl Colloquium Observing the Earliest Stages of Planet Formation Astrochemistry with ALMA Cycle 4 Detecting Turbulence in Protoplanetary Disks Sant-Cugat Forum on Astrophysics Turbulence in Protoplanetary Disks: Methods and Limitations Protoplanetary Discussions Turbulence in TW Hya Chemical Diagnostics of Star and Planet Formation	Mar. 2019 (invited) Oct. 2018 (invited) Aug. 2018 (invited) Aug. 2018 (invited) Apr. 2018 Feb. 2018 Nov. 2016 (invited) Nov. 2016 (invited) Jun. 2016 (invited) Apr. 2016 Mar. 2016 Mar. 2016

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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)	ALMA PI: Teague , R. , 183 hours, 2021.1.01123.L, A ranked co-PIs: Bensity, M., Facchini, S., Fukagawa, M. & Pinte, C. exoALMA Large Program	2021
	JWST co-Pls: Cugno, G. & Teague , R ., 8 hours, 2153, Detecting a Young 2 Jupiter Mass Planet Embedded in the Disk of HD 163296	Cycle 1
	SMA PI: Teague , R. , 6 hours, 2020A-S033, B ranked A 3D Exploration of an Edge-On Self-Gravitating Disk	2020b
	SMA PI: Teague , R. , 10 hours, 2020A-S033, A ranked A 3D Exploration of an Edge-On Self-Gravitating Disk	2020a
	ALMA PI: Teague , R. , 13.8 hours, 2019.1.01357.S, A ranked Constraining the H2 Surface Density Profile in IM Lup	2019
	ALMA PI: Teague, R. , 3.0 hours, 2019.1.00794.S, B ranked Detecting the Photoevaporative Wind in IM Lup	2019
	ALMA PI: Teague, R. , 33.2 hours, 2019.1.00419.S, B ranked <i>Mapping the 3D Kinematic Structure of Planet Formation</i>	2019
	ALMA PI: Teague, R. , 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
	ALMA PI: Teague, R. , 6.7 hours, 2018.1.00980.S, A ranked An Unambiguous Detection of a Magnetic Field in a Protoplanetary Disk	2018
	ALMA PI: Teague, R. , 5.3 hours, 2016.1.00440.S, A ranked Model Independent Study of Turbulence and Temperature in TW Hya	2016
	IRAM PdBI PI: Teague, R. , 19.9 hours, W14BI, C ranked Disk Diagnostics with Deuteration	2014
(AS CO-I)	Including over 355 hours with ALMA , 150 hours with IRAM telescopes, 30 hours with the SMA , 50 hours with the VLA , 50 hours with VLT (X-SHOOTER, SPHERE and CRIRES), 2 nights with Magellan (MagAO/MagAOx) and 18 hours with JWST .	
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)	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

Meridional Flows in the Disk Around a Young Star

- 14. **Teague, R.**, Jankovic, M. R., Haworth, T. J., et al., MNRAS, 495 A Three Dimensional View of Gomez's Hamburger
- Tracing The Physical Conditions of Planet Formation with Molecular Excitation 12. **Teague, R.**, Bae, J., Huang, J., Bergin, E. 2019, ApJL, 884

13. **Teague**, **R.**, 2019, IAU Proceedings Series, 350

- Spiral Structure in the Gas Disk of TW Hya

 11. **Teague, R.**, Bae, J., Bergin, E. 2019, Nature, 574
- 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.

- 72. Law, C. J., Crystian, S., **Teague, R.**, et al., ApJ, in press [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 press 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, in press 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, in press *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, in press [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*₂*H and H*₂*CO*
- 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 HC₃N, CH₃CN and c-C₃H₂
- 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+ 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 CH₂CN 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+ 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

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