Curriculum Vitae Richard Teague

Contact Information	Center for Astrophysics 60 Garden Street MS 78 Cambridge, MA, 02138	(+1) 617-495-7259 https://richteague.github.io richard.d.teague@cfa.harvard.edu	
EMPLOYMENT	Massachusetts Institute of Technology Department of Earth, Atmospheric and Planetary Sciences Assistant Professor	July 2022	
	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	Harvard Data Science Initiative Research Fund (\$9,700)  Regularized Maximum Likelihood Imaging: A New Method for Detecting Plan	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	May 2010	
	Awarded for top 5% performance in pre-honours exams.		
PUBLICATION SUMMARY	<b>19 lead author papers</b> , including one published in <i>Nature</i> , and 70 co-author papers, totaling <b>2265 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>265 hours</b> (335 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	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	2018 – 2019	

Diversity, Equity and Inclusion Journal Club

	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
	<b>Jenny Calahan</b> 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
	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  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 Transforming ALMA into a Planet Hunting Facility	Apr. 2021
	McMaster University Astrophysics Seminar Witnessing the Assembly of Planetary Systems	Apr. 2021 (invited)
	Circumplanetary Disks II Observations and Observational Predictions	Mar. 2021 (invited)

Max Planck Research Group Selection Symposium Witnessing the Assembly of Planetary Systems	Feb. 2021 (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	Dec. 2020
Observing the Kinematics of Gaseous Substructures	
Research Unit Transition Disks (RUTD) Conference	Oct. 2020
Observing the Dynamics of Planet Disk Interactions	(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	Nov. 2019
Witnessing the Dynamics of Planetary Assembly	(invited)
Visualizing the Kinematics of Planet Formation	Oct. 2019
Exploiting ALMA's Potential for Planet Hunting	
Gordon Research Seminar Unveiling the Dynamics of Planet Formation	June 2019
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IAU Symposium 350: Laboratory Astrophysics The Physical Conditions of Planet Formation with Molecular Excitation	Apr. 2019 (invited)
Planet-Forming Disks	Mar. 2019
Unveiling the Dynamics of Planet Formation	(invited)
NAOJ Theoretical Astronomy Seminar	Oct. 2018
Observing the Kinematics of Planet-Disk Interactions with ALMA	(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 The First Kinematical Detection of Embedded Protoplanets	Apr. 2018
Magnetic Fields or Turbulence	Feb. 2018
A Spatially Resolved Search for Turbulence in TW Hya	
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	Jun. 2016
Detecting Turbulence in Protoplanetary Disks	(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	Jan. 2015
Deuterium Fraction in Protoplanetary Disks	(invited)
ZAG - IPAG - MPIA Workshop on Planet Formation  Deuterium Fraction in DM Tau	Jan. 2015 (invited)
Deutenum Haction in Divi Tau	(invited)
SMA PI: Teague, R., 30 hours, 2020A-S033, A ranked	2021b
Is the Magneto-Rotational Instability Driving Protoplanetary Disk Evolution?	

SUCCESSFUL TELESCOPE PROPOSALS (AS PI)

**SMA** PI: **Teague**, **R.**, 30 hours, 2020A-S033, A ranked *Is the Magneto-Rotational Instability Driving Protoplanetary Disk Evolution?* 

	<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
	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
	<b>ALMA</b> PI: <b>Teague</b> , <b>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 Mapping the 3D Kinematic Structure of Planet Formation	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, 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
	IRAM PdBI PI: Teague, R., 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> , 50 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)	19. <b>Teague, R.</b> , Bae, J., Benisty, M., et al., ApJ, in press Gas and Dust Shadows in the TW Hydrae Disk	
	18. <b>Teague, R.</b> , Law, C. J., Huang, J. et al., JOSS, 6 disksurf: Extracting the 3D Structure of Protoplanetary Disks	
	17. <b>Teague, R.</b> , 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

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

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

> 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  $\beta$  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,  $C_2H$  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