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 | |
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| 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 | |
| | University of Edinburgh , 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 | 20 lead author papers , including one published in <i>Nature</i> , and 90 co-author papers, including one published in <i>Nature</i> , totaling 3781 citations (ADS). A full publication list, including those currently under review, can be found at the end of the CV. | | |
| OBSERVATIONAL TIME SUMMARY | Awarded over 332 hours (480 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), 26 hours (18 hours) on JWST as co-PI (co-I) and 6 hours on VLT/GRAVITY as PI. I have also been a co-investigator on projects for the HST , VLA and the Magellan 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 Seminar Series MPIA Student Workshop Organizer Departmental Seminar Series MPIA Student Workshop Organizer Diversity Control of Members of Mem | | 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 | | · · · · · · · · · · · · · · · · · · · | 2018 – 2019 |
| Heidelberg MPG Student Workshop Organizer PSF Coffee Organizer Departmental Seminar Series MPIA Student Representative MPIA Student Representative MPIA Student Representative MPIA Student Representative Referee for AAS, A&A, MNRAS and Nature journals SUPERVISION Aidan van Duzer MIT Undergraduate Research Opportunity Program Anna Orgel MIT Undergraduate Research Opportunity Program Anna Orgel MIT Undergraduate Research Opportunity Program Haochtuan Yu Beijing Normal University Undergraduate student. Alessandra Canta Harvard University Undergraduate student. Alessandra Canta Harvard University Undergraduate student. Alessandra Canta Harvard University Undergraduate student. Co-supervised with Nearl Oberg, Harvard Felipe Alcaron University of Milchigan Graduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Jenny Calahan University of Milchigan Graduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Milchigan Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Milchigan Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Milchigan Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Milchigan Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Milchigan Undergraduate Student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Jeanne Kwon University of Milchigan Undergraduate Research Opportunity Program Julian Penzinger Ludwig Maximilian University Summer student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Talks & Seminars ALMA at 10 Years: Past, Present, and Future The Dynamical Structure of Planel Forming Disks Witnessing the Formation of Glaint Planets and their Moons Witnessing the Formation of Glaint Planets and their Moons MATH + X: Planet Formation and Habitability May 2023 | | • • | 2018 – 2019 |
| PSF Coffee Organizer Departmental Seminar Series MPIA Student Representative MPIA Student Workshop Organizer IMPRS Graduate Student Representative Referee for AAS, A&A, MNRAS and Nature journals SUPERVISION Aidan van Duzer MIT Undergraduate Research Opportunity Program Anna Orgel MIT Undergraduate Research Opportunity Program Carol Chen MIT Undergraduate Research Opportunity Program Haochuan Yu Beijing Normal University Undergraduate student. Alessandra Canta Harvard University Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Jenny Calahan University of Michigan Graduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Michigan Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Michigan Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Michigan Undergraduate student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Deryl Long University of Michigan Undergraduate student. Co-supervised with Ted Bergin, UMich. Jeanne Kwon University of Michigan Undergraduate student. Co-supervised with Ted Bergin, UMich. Jeanne Kwon University of Michigan Undergraduate student. Co-supervised with Ted Bergin, UMich. Jeanne Kwon University of Michigan Undergraduate Student. Co-supervised with Ted Bergin, UMich. Jeanne Kwon University of Michigan Undergraduate Student. Co-supervised with Ted Bergin, UMich. Jeanne Kwon University of Michigan Undergraduate Student. Co-supervised with Ted Bergin, UMich. Jeanne Kwon University of Michigan Undergraduate Student. Co-supervised with Ted Bergin, UMich. Each Lead of Lead Student. Jeanne Kwon University of Michigan Undergraduate Student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Jeanne Kwon University of Michigan Undergraduate Student. Co-supervised with Ted Bergin and Ke Zhang, UMich. Jeanne Kwon University of Michigan Undergraduate Student. Co-supervised with Ted Bergin Lead Ke Zhang, UMich. Jeanne Kwon University of Michi | | NESSF External Reviewer | 2018, 2020 |
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| SEMINARS The Dynamical Structure of Planet Forming Disks Gordon Conference on the Origins of Solar Systems Witnessing the Formation of Giant Planets and their Moons MATH + X: Planet Formation and Habitability May 2023 | | | 2016, 2018 |
| 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 |
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| 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 |
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| | IAU Symposium 350: Laboratory Astrophysics | Apr. 2019 |
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| | 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) | ALMA PI: Teague, R. , 18 hours, 2022.1.00840.S, A ranked The Most Sensitive Search for Magnetic Fields in a Solar Nebula Analogue | 2022 |
| | ALMA PI: Teague, R. , 5 hours, 2022.1.00887.S, B ranked <i>Ultra-High Velocity Resolutions of the Planet-Disk Interactions in TW Hya</i> | 2022 |
| | ALMA PI: Teague, R. , 11 hours, 2022.1.00799.S, C ranked <i>Mapping the Influence of Magnetic Fields on the Evolution of HD 163296</i> | 2022 |
| | ALMA PI: Teague, R. , 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 |
| | 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 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 480 hours with ALMA , 150 hours with IRAM telescopes, 30 hours with the SMA , 50 hours with the VLA , 70 hours with VLT (X-SHOOTER, SPHERE and CRIRES), 2 nights with Magellan (MagAO/MagAOx), 3 orbits with HST 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 | 12.410 - Observational Techniques for Optical Astronomoy | 2022 |
| | Wavefront Analysis Laboratory Instructor | 2014 |
| PUBLICATIONS (LEAD AUTHOR) | 20. Teague, R. , Bae, J., Andrews, S. M., et al., 2022, ApJ, 936, 163 Mapping the Complex Kinematic Substructure in the TW Hya Disk | |
| | 19. Teague, R. , Bae, J., Benisty, M., et al., 2022, ApJ, 930, 144 Gas and Dust Shadows in the TW Hydrae Disk | |
| | 18. Teague, R. , Law, C. J., Huang, J. et al., 2021, JOSS, 6 disksurf: Extracting the 3D Structure of Protoplanetary Disks | |
| | 17. Teague, R. , Bae, J., Aikawa, Y., et al., 2021, 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., 2021, ApJ, 922 Discovery of Molecular Line Polarization in the Disk of TW Hya | |
| | 15. Teague, R. & Loomis, R. A., 2020, ApJ, 899 The Excitation Conditions of CN in TW Hya | |
| | 14. Teague, R. , 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.

- 90. Cugno, G., Zhou, Y., Thanathibodee, T., et al., ApJ, in press MagAO-X and HST high contrast imaging of the AS 209 disk at ${
 m H}lpha$
- 89. Waggoner, A. R., Cleeves, L. I., Loomis, R. A., et al., ApJ, in press MAPS: Constraining Serendipitous Time Variability in Protoplanetary Disk Molecular Ion Emission
- 88. Campbell-White, J., Manara, C. F., Benisty, M., et al., ApJ, in press A magnetically driven disc wind in the inner disk of PDS 70
- 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 paleomagnetism
- 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, 523 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 HD 169142*
- 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* β *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 HC₃N, CH₃CN and c-C₃H₂
- 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⁺ 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 CH₂CN 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⁺ 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 åÅŤ 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