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	
	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 84 co-author papers, including one published in <i>Nature</i> , totaling 3491 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 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) and 26 hours (18 hours) on JWST as co-PI (co-I). I have also been a co-investigator on projects for the HST , VLA , the VLT 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
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·		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
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	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

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- 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.
- 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*
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- 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*
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- 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
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- 56. Cataldi, G., Yamato, Y., Aikawa, Y., et al., 2021, ApJS, 257 MAPS X: Distributions of Deuterated Molecules
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- 46. Canta, A., **Teague, R.**, le Gal., R., et al., 2021, ApJ, 922 [student paper] The first detection of CH₂CN in a protoplanetary disk
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- 44. Andrews, S. M., Elder, W., Zhang, S., et al., 2021, ApJ, 916

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- 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
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- 36. Pegues, J., Czekala, I., Andrews, S. M., 2021, ApJ, 908

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- 35. Harrison, R. E., Looney, L. W., Stephens, I. W., et al., 2021, ApJ, 908

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- 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*
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- 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
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19. Huang, J., Andrews, S. M., Dullemond, C. P., et al., 2020, ApJ, 891

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