

ILARIA PASCUCCI

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Lunar and Planetary Laboratory, Department of Planetary Sciences

The University of Arizona, 1629 E. University Blvd., Tucson, AZ 85721-0092

CHRONOLOGY OF EDUCATION

M.A. in Astronomy	<i>1999</i>
4-year researcher-track education in Astronomy	
University of Bologna, Italy	
Mater's advisors: P. Caselli, G. Palumbo, M. Walmsley	
Thesis title: Comparative study of complex molecules in hot molecular cores	
Ph.D. in Astrophysics	<i>2004</i>
4-year Ph.D. program, degree awarded by the University of Heidelberg	
Graduate student, Astronomical Institute, University of Jena	<i>2000-2002</i>
Graduate student, Max Planck Institute for Astronomy, Heidelberg	<i>2002-2004</i>
PhD Advisor : Th. Henning	
Thesis title: Massive star formation at high spatial resolution	

CHRONOLOGY OF EMPLOYMENT

Research Associate , Steward Observatory, U. Arizona	<i>2004-2008</i>
Associate Research Scientist , Johns Hopkins University	<i>2008-2011</i>
Staff Astronomer , Space Telescope Science Institute	<i>2009-2011</i>
Assistant Professor , Lunar and Planetary Laboratory, U. Arizona	<i>2011-2016</i>
Associate Professor , Lunar and Planetary Laboratory, U. Arizona	<i>2016-2022</i>
Associated Department Head , Lunar and Planetary Laboratory, U. Arizona	<i>2021-present</i>
Full Professor , Lunar and Planetary Laboratory, U. Arizona	<i>2022-present</i>

HONORS AND AWARDS

M.A. in Astronomy, University of Bologna, Summa cum Laude with Honors	<i>1999</i>
Max Planck Institute's Patzer Price for Outstanding Publication of the Year	<i>2004</i>
Beatrice M. Tinsley Research Scholar at the University of Texas, Austin	<i>2011</i>
Appointed as a member of the Science and Technology Definition Team for LUVOIR	<i>2016-2020</i>
Visiting Professor, Max Planck Institute for Astronomy, Germany	<i>2017-2018</i>
Robert H. Goddard Team Award: LUVOIR Science and Technology Definition Team	<i>2019</i>
Visiting Professor, University of Bern, Switzerland	<i>2019</i>
Appointed as a member of the NASA ExoPAG Executive Committee	<i>2021</i>
Appointed as Chair of the NASA ExoPAG Executive Committee	<i>2022</i>
Fellow of the American Astronomical Society	<i>2022</i>

SERVICE/OUTREACH (LIMITED TO 2017-2021)

Local/State Outreach:

- *The Search for Life Beyond Earth*, Community Share Program, 4th graders, Tucson 2017
- *Imagine Alien Earths*, workshop for K-12 teachers in collaboration with Pima County 2019
- *The Search for Life Beyond Earth*, Community Share Program, 6th graders, Sahuarita 2021

National/International Outreach:

- *Our old, vast, expanding Universe*, talk for 5th graders, Heidelberg International School 2017
- *Planet-Forming Disks May Resemble Solar System 5 Billion Years Ago*, press release 2018
- Invited speaker in *Il Bello di Unicam*, Italy, to promote science and research 2018
- *Unknown Treasure Trove of Planets Found Hiding in Dust*, press release 2018
- Interview for the article *Accretion throughout the Cosmos*, Sky & Telescope Magazine 2021

Departmental Committees:

- Science Center for Astrobiology, Faculty Contact 2016-2017
- Curriculum Committee, Chair 2016-2017
- Awards Committee, Chair & Member 2016-2017
- Oral Comprehensive Exam Committee, M. Simon 2017
- Ph.D. Oral Defense Committee, K. Miller 2017
- Ph.D. Oral Defense Committee, S. Morrison 2017
- Graduate Admission and Advising Committee, Chair & Member 2018-2020
- Oral Comprehensive Exam Committee, R. Boyden (Steward) 2019
- Oral Comprehensive Exam Committee, R. Fernandes 2019
- Ph.D. Oral Defense Committee, M. Simon 2019
- Ph.D. Committee, M. Hammer (Steward) 2019
- Promotion Review Committee, B. Frye (Steward) 2019
- Strategic Planning Committee, topic: Origins 2019
- Ph.D. Oral Defense Committee, N. Hendler 2020
- Written Exam Committee 2020
- Associate Department Head for the Graduate Program 2021-pres.

Other Committees (Internal or External):

- STDT member, NASA/LUVOIR 2016-2020
- 229th Meeting of the AAS, Session Chair, *Planets and Planetesimals in Circumstellar Disks* 2017
- Science Organizing Committee, Habitable Worlds 2017
- Ph.D. Reading Committee, A. Miotello, U. Leiden (advisor E. van Dishoeck) 2017
- Ph.D. Reading Committee, G. Guidi, U. Florence (advisor L. Testi) 2017
- Reviewer for CONICYT, ALMA funds for the development of Chilean Astronomy 2017
- Science Organizing Committee, Summer Ringberg Workshop, Planet Formation 2019
- Scientific advisory committee member, Protostars and Planets VII 2019-pres.
- Science Organizing Committee, Workshop on Disk Evolution, Potsdam 2020
- Member of the Steering Committee, NASA Nexus for Exoplanet System Science 2020-pres.
- Study Analysis Group #22, *A Target Star Archive for Exoplanet Science* 2020-201
- External expert for tenure review 2020
- Reviewer for the Alfred P. Sloan Foundation, "Call-For-Ideas" Proposal Call 2020
- Executive committee member and Chair, NASA ExoPAG 2021-pres.

+148 total refereed publications, citation counts **8,068+**, H-index=**55** (based on NASA ADS) Notes. A * is placed left of any publication title substantially based on work done as a graduate student. A ° is placed by the name of co-authors who are undergraduate and graduate student advisees or postdoctoral mentees. The names of students and postdocs directly advised by Pascucci while a given paper was in preparation are underlined. The author list for publications with more than 10 authors is truncated after the 3rd author.

Chapters in scholarly books and monographs

1. **Pascucci, I.**, S. Cabrit, S. Edwards, U. Gorti, O. Gressel, T. Suzuki, accepted chapter for the Protostars and Planets VII meeting and book, expected publication in 2022. *The role of disk winds in the evolution and dispersal of protoplanetary disks*
2. **Pascucci, I.**, Andrews, S., Chandler, C., Isella, A. 2018, Science with a Next Generation Very Large Array, ASP Conference Series, Vol. 517. ASP Monograph 7. Edited by Eric Murphy., p.155. *Disk Winds and the Evolution of Planet-Forming Disks*
3. Alexander, R., **Pascucci, I.**, Andrews, S., Armitage, P., & Cieza, L. 2014, Protostars and Planets VI, Henrik Beuther, Ralf S. Klessen, Cornelis P. Dullemond, and Thomas Henning (eds.), University of Arizona Press, Tucson, 914 pp., p.475-496. *The Dispersal of Protoplanetary Disks*
4. **Pascucci, I.**, & Tachibana, S. 2010, Protoplanetary Dust: Astrophysical and Cosmochemical Perspectives, eds.: D. Apai, D. S. Lauretta, 2010, Cambridge University Press, ISBN 978-0-521-51772-0, p. 263-298. *The Clearing of Protoplanetary Disks and of the Protosolar Nebula*
5. Luhman, K. L., Joergens, V., Lada, C., Muzerolle, J., **Pascucci, I.**, & White, R. 2007, Protostars and Planets V, B. Reipurth, D. Jewitt, and K. Keil (eds.), University of Arizona Press, Tucson, 951 pp., 2007., p.443-457. *The Formation of Brown Dwarfs: Observations*

Refereed Journal Articles

1. Hasegawa, Y., Haworth, Th. J., Hoadley, K. et al. (**Pascucci, I.** 8th author) 2022, ApJ, 926L, 23. *Determining Dispersal Mechanisms of Protoplanetary Disks Using Accretion and Wind Mass Loss Rates*
2. Testi, L., Natta, A., Manara, C. F. et al. (**Pascucci, I.** 8th author), A&A in press. *The protoplanetary disk population in the ρ -Ophiuchi region L1688 and the time evolution of Class II YSOs*
3. Mulders, G. D., Drazkowska, J., van der Marel, N., Ciesla, F. J., **Pascucci, I.** 2021, ApJ, 920L,1. *Why Do M Dwarfs Have More Transiting Planets?*
4. Mulders, G. D., **Pascucci, I.**, Ciesla, F. J., Fernandes, R. B. 2021, ApJ, 920, 66. *The Mass Budgets and Spatial Scales of Exoplanet Systems and Protoplanetary Disks*
5. Lozovsky, M., Helled, R., **Pascucci, I.** et al. 2021, A&A, 652A, 110. *Why do more massive stars host larger planets?*
6. Whelan, E. T., **Pascucci, I.**, Gorti, U., Edwards, S., Alexander, R. D., Sterzik, M. F., Melo, C. 2021, ApJ, 913, 43. *Evidence for an MHD disk wind via optical forbidden line spectro-astrometry*
7. Sanchis, E., Testi, L., Natta, A. et al. (**Pascucci, I.** 13th author) 2021, A&A, 649A, 19. *Measuring the ratio of the gas and dust emission radii of protoplanetary disks in the Lupus star-forming region*
8. Pegues, J., Öberg, K. I., Bergner, J. B. et al. (**Pascucci, I.** 5th author) 2021, ApJ, 911, 150. *An Atacama Large Millimeter/submillimeter Array Survey of Chemistry in Disks around M4-M5 Stars*

9. Panić, O., Haworth, T. J., Petr-Gotzens, M. G. et al. (**Pascucci, I.** 12th author) 2021, MNRAS, 501, 4317. *Planet formation in intermediate-separation binary systems*
10. Fang, M., Kim, J. S., **Pascucci, I.**, Apai, D. 2021, ApJ, 908, 49. *An Improved Hertzsprung-Russell Diagram for the Orion Trapezium Cluster*
11. Kurtovic, N. T., Pinilla, P., Long, F. et al. (**Pascucci, I.** 7th author) 2021, A&A, 645A, 139. *Size and structures of disks around very low mass stars in the Taurus star-forming region*
12. Banzatti, A., **Pascucci, I.**, Bosman, A. D. et al. 2020, ApJ, 903, 124. *Hints for Icy Pebble Migration Feeding an Oxygen-rich Chemistry in the Inner Planet-forming Region of Disks*
13. **Pascucci, I.**, Banzatti, A., Gorti, U. et al. 2020, ApJ, 903, 78. *The Evolution of Disk Winds from a Combined Study of Optical and Infrared Forbidden Lines*
14. Long, F., Pinilla, P., Herczeg, G. J. et al. (**Pascucci, I.** 8th author) 2020, ApJ, 898, 36. *Dual-wavelength ALMA Observations of Dust Rings in Protoplanetary Disks*
15. Mulders, G. D., O'Brien, D. P., Ciesla, F. J., Apai, D., **Pascucci, I.** 2020, ApJ, 897, 72. *Earths in Other Solar Systems' N-body Simulations: The Role of Orbital Damping in Reproducing the Kepler Planetary Systems*
16. Manara, C. F., Natta, A., Rosotti, G. P. et al. (**Pascucci, I.** 8th author) 2020, A&A, 639A, 58. *X-shooter survey of disk accretion in Upper Scorpius. I. Very high accretion rates at age > 5 Myr*
17. Hendler, N., **Pascucci, I.**, Pinilla, P., Tazzari, M., Carpenter, J., Malhotra, R., & Testi, L. 2020, ApJ, 895, 126. *The Evolution of Dust Disk Sizes from a Homogeneous Analysis of 1-10 Myr old Stars*
18. Moór, A., Pawellek, N., Ábrahám, P. et al. (**Pascucci, I.** 11th author) 2020, AJ, 159, 288. *The Big Sibling of AU Mic: A Cold Dust-rich Debris Disk around CP-72 2713 in the β Pic Moving Group*
19. Liu, B., Lambrechts, M., Johansen, A., **Pascucci, I.**, Henning, Th. 2020, A&A, 638A, 88. *Pebble-driven planet formation around very low-mass stars and brown dwarfs*
20. Pinilla, P., **Pascucci, I.**, & Marino, S. 2020, A&A, 635, A105. *Hints on the origins of particle traps in protoplanetary disks given by the $M_{\text{dust}} - M_{\star}$ relation*
21. Sanchis, E., Testi, L., Natta, A. et al. (**Pascucci, I.** 13th author) 2020, A&A, 633, A114. *Demographics of disks around young very low-mass stars and brown dwarfs in Lupus*
22. Mulders, G. D., Mordasini, C., **Pascucci, I.**, Ciesla, F. J., Emsenhuber, A., & Apai, D. 2019, ApJ, 887, 157. *The Exoplanet Population Observation Simulator. II. Population Synthesis in the Era of Kepler*
23. Moór, A., Kral, Q., Ábrahám, P., Kóspál, Á., Dutrey, A., Di Folco, E., Hughes, A. M., Juhász, A., **Pascucci, I.**, & Pawellek, N. 2019, ApJ, 884, 108. *New Millimeter CO Observations of the Gas-rich Debris Disks 49 Cet and HD 32297*
24. **Pascucci, I.**, Mulders, G. D., & Lopez, E. 2019, ApJL, 883, L15. *The Impact of Stripped Cores on the Frequency of Earth-size Planets in the Habitable Zone*
25. Long, F., Herczeg, G. J., Harsono, D. et al. (**Pascucci, I.** 7th author) 2019, ApJ, 882, 49. *Compact Disks in a High-resolution ALMA Survey of Dust Structures in the Taurus Molecular Cloud*
26. Pawellek, N., Moór, A., **Pascucci, I.**, & Krivov, A. V. 2019, MNRAS, 487, 5874. *Dust spreading in debris discs: do small grains cling on to their birth environment?*
27. Fang, M., **Pascucci, I.**, Kim, J. S., & Edwards, S. 2019, ApJL, 879, L10. *Double-peaked [O I] Profile: A Likely Signature of the Gaseous Ring around KH 15D*

28. Lodato, G., Dipierro, G., Ragusa, E. et al. (**Pascucci, I.** 6th author) 2019, MNRAS, 486, 453. *The newborn planet population emerging from ring-like structures in discs*
29. Miley, J. M., Panić, O., Haworth, T. J., **Pascucci, I.**, Wyatt, M., Clarke, C., Richards, A. M. S., & Ratzka, T. 2019, MNRAS, 485, 739. *Asymmetric mid-plane gas in ALMA images of HD 100546*
30. Fernandes, R. B., Mulders, G. D., **Pascucci, I.**, Mordasini, C., & Emsenhuber, A. 2019, ApJ, 874, 81. *Hints for a Turnover at the Snow Line in the Giant Planet Occurrence Rate*
31. Liu, Y., **Pascucci, I.**, & °Henning, T. 2019, A&A, 623, A106. *CLiCK: a Continuum and Line fitting Kit for circumstellar disks*
32. Liu, Y., Dipierro, G., Ragusa, E. et al. (**Pascucci, I.** 11th author) 2019, A&A, 622, A75. *Ring structure in the MWC 480 disk revealed by ALMA*
33. Banzatti, A., **Pascucci, I.**, Edwards, S., Fang, M., Gorti, U., & Flock, M. 2019, ApJ, 870, 76. *Kinematic Links and the Coevolution of MHD Winds, Jets, and Inner Disks from a High-resolution Optical [O I] Survey*
34. **Pascucci, I.**, Andrews, S., Chandler, C., & Isella, A. 2018, Science with a Next Generation Very Large Array, 517, 155. *Disk Winds and the Evolution of Planet-Forming Disks*
35. Long, F., Pinilla, P., Herczeg, G. J. et al. (**Pascucci, I.** 6th author) 2018, ApJ, 869, 17. *Gaps and Rings in an ALMA Survey of Disks in the Taurus Star-forming Region*
36. Fang, M., **Pascucci, I.**, Edwards, S., Gorti, U., Banzatti, A., Flock, M., Hartigan, P., Herczeg, G. J., & Dupree, A. K. 2018, ApJ, 868, 28. *A New Look at T Tauri Star Forbidden Lines: MHD-driven Winds from the Inner Disk*
37. Long, F., Herczeg, G. J., **Pascucci, I.**, Apai, D., °Henning, T., Manara, C. F., Mulders, G. D., Szűcs, L., & Hendler, N. P. (2018), ApJ, 863, 61. *An ALMA Survey of Faint Disks in the Chamaeleon I Star-forming Region: Why Are Some Class II Disks so Faint?*
38. Mulders, G. D., **Pascucci, I.**, Apai, D., & Ciesla, F. J. 2018, AJ, 156, 24. *The Exoplanet Population Observation Simulator. I. The Inner Edges of Planetary Systems*
39. Eisner, J. A., Arce, H. G., Ballering, N. P. et al. (**Pascucci, I.** 13th author) 2018, ApJ, 860, 77. *Protoplanetary Disk Properties in the Orion Nebula Cluster: Initial Results from Deep, High-resolution ALMA Observations*
40. Pinilla, P., Tazzari, M., **Pascucci, I.** et al. 2018, ApJ, 859, 32. *Homogeneous Analysis of the Dust Morphology of Transition Disks Observed with ALMA: Investigating Dust Trapping and the Origin of the Cavities*
41. **Pascucci, I.**, Mulders, G. D., Gould, A., & Fernandes, R. 2018, ApJL, 856, L28. *A Universal Break in the Planet-to-star Mass-ratio Function of Kepler MKG Stars*
42. Liu, H. B., Dunham, M. M., **Pascucci, I.** et al. 2018, A&A, 612, A54. *A 1.3 mm SMA survey of 29 variable young stellar objects*
43. Hendler, N. P., Pinilla, P., **Pascucci, I.**, Pohl, A., Mulders, G., °Henning, T., Dong, R., Clarke, C., Owen, J., & Hollenbach, D. 2018, MNRAS, 475, L62. *A likely planet-induced gap in the disc around T Cha*
44. Fedele, D., Tazzari, M., Booth et al. (**Pascucci, I.** 6th author) 2018, A&A, 610, A24. *ALMA continuum observations of the protoplanetary disk AS 209. Evidence of multiple gaps opened by a single planet*
45. Mulders, G. D., **Pascucci, I.**, Manara, C. F., Testi, L., Herczeg, G. J., °Henning, T., Mohanty, S., & Lodato, G. 2017, ApJ, 847, 31. *Constraints from Dust Mass and Mass Accretion Rate*

46. Long, F., Herczeg, G. J., **Pascucci, I.** et al. 2017, ApJ, 844, 99. *An ALMA Survey of CO Isotopologue Emission from Protoplanetary Disks in Chamaeleon I*
47. Manara, C. F., Testi, L., Herczeg, G. J. et al. (**Pascucci, I.** 4th author) 2017, A&A, 604, A127. *X-shooter study of accretion in Chamaeleon I. II. A steeper increase of accretion with stellar mass for very low-mass stars?*
48. Ricci, L., Cazzoletti, P., Czekala, I. et al. (**Pascucci, I.** 9th author) 2017, AJ, 154, 24. *ALMA Observations of the Young Substellar Binary System 2M1207*
49. Hendler, N. P., Mulders, G. D., **Pascucci, I.**, Greenwood, A., Kamp, I., °Henning, T., Ménard, F., Dent, W. R. F., & Evans, N. J. 2017, ApJ, 841, 116. *Hints for Small Disks around Very Low Mass Stars and Brown Dwarfs*
50. Ercolano, B., & **Pascucci, I.** 2017, Royal Society Open Science, 4, 170114. *The dispersal of planet-forming discs: theory confronts observations*
51. Fang, M., Kim, J. S., **Pascucci, I.**, Apai, D., Zhang, L., Sicilia-Aguilar, A., Alonso-Martínez, M., Eiroa, C., & Wang, H. 2017, AJ, 153, 188. *NGC 1980 Is Not a Foreground Population of Orion: Spectroscopic Survey of Young Stars with Low Extinction in Orion A*
52. Fang, M., Kim, J. S., **Pascucci, I.**, Apai, D., & Manara, C. F. 2016, ApJL, 833, L16. *A Candidate Planetary-mass Object with a Photoevaporating Disk in Orion*
53. Mulders, G. D., **Pascucci, I.**, Apai, D., Frasca, A., & Molenda-Żakowicz, J. 2016, AJ, 152, 187. *A Super-solar Metallicity for Stars with Hot Rocky Exoplanets*
54. Simon, M. N., **Pascucci, I.**, Edwards, S., Feng, W., Gorti, U., Hollenbach, D., Rigliaco, E., & Keane, J. T. 2016, ApJ, 831, 169. *Tracing Slow Winds from T Tauri Stars via Low-velocity Forbidden Line Emission*
55. **Pascucci, I.**, Testi, L., Herczeg, G. J. et al. 2016, ApJ, 831, 125. *A Steeper than Linear Disk Mass-Stellar Mass Scaling Relation*
56. Kastner, J. H., Principe, D. A., Punzi, K., Stelzer, B., Gorti, U., **Pascucci, I.**, & Argiroffi, C. 2016, AJ, 152, 3. *M Stars in the TW Hya Association: Stellar X-Rays and Disk Dissipation*
57. Mulders, G. D., **Pascucci, I.**, & Apai, D. 2015, ApJ, 814, 130. *An Increase in the Mass of Planetary Systems around Lower-mass Stars*
58. Moór, A., °Henning, T., Juhász, A. et al. (**Pascucci, I.** 7th author) 2015, ApJ, 814, 42. *Discovery of Molecular Gas around HD 131835 in an APEX Molecular Line Survey of Bright Debris Disks*
59. **Pascucci, I.**, Edwards, S., Heyer, M., Rigliaco, E., Hillenbrand, L., Gorti, U., Hollenbach, D., & Simon, M. N. 2015, ApJ, 814, 14. *Narrow Na and K Absorption Lines Toward T Tauri Stars: Tracing the Atomic Envelope of Molecular Clouds*
60. Mulders, G. D., Ciesla, F. J., Min, M., & **Pascucci, I.** 2015, ApJ, 807, 9. *The Snow Line in Viscous Disks around Low-mass Stars: Implications for Water Delivery to Terrestrial Planets in the Habitable Zone*
61. Ciesla, F. J., Mulders, G. D., **Pascucci, I.**, & Apai, D. 2015, ApJ, 804, 9. *Volatile Delivery to Planets from Water-rich Planetesimals around Low Mass Stars*
62. Rigliaco, E., **Pascucci, I.**, Duchêne, G. et al. 2015, ApJ, 801, 31. *Probing Stellar Accretion with Mid-infrared Hydrogen Lines*
63. Fedele, D., Bruderer, S., van den Ancker, M. E., & **Pascucci, I.** 2015, ApJ, 800, 23. *On the Asymmetry of the OH Ro-vibrational Lines in HD 100546*

64. Mulders, G. D., **Pascucci**, I., & Apai, D. 2015, ApJ, 798, 112. *A Stellar-mass-dependent Drop in Planet Occurrence Rates*
65. **Pascucci**, I., Ricci, L., Gorti, U., Hollenbach, D., Hendler, N. P., Brooks, K. J., & Contreras, Y. 2014, ApJ, 795, 1. *Low Extreme-ultraviolet Luminosities Impinging on Protoplanetary Disks*
66. Galván-Madrid, R., Liu, H. B., Manara, C. F., Forbrich, J., **Pascucci**, I., Carrasco-González, C., Goddi, C., Hasegawa, Y., Takami, M., & Testi, L. 2014, A&A, 570, L9. *Constraints on photoevaporation models from (lack of) radio emission in the Corona Australis protoplanetary disks*
67. Todorov, K. O., Luhman, K. L., Konopacky, Q. M., McLeod, K. K., Apai, D., Ghez, A. M., **Pascucci**, I., & Robberto, M. 2014, ApJ, 788, 40. *A Search for Companions to Brown Dwarfs in the Taurus and Chamaeleon Star-Forming Regions*
68. Keane, J. T., **Pascucci**, I., Espaillat, C., Woitke, P., Andrews, S., Kamp, I., Thi, W.-F., Meeus, G., & Dent, W. R. F. 2014, ApJ, 787, 153. *Herschel Evidence for Disk Flattening or Gas Depletion in Transitional Disks*
69. **Pascucci**, I., Herczeg, G., Carr, J. S., & Bruderer, S. 2013, ApJ, 779, 178. *The Atomic and Molecular Content of Disks around Very Low-mass Stars and Brown Dwarfs*
70. Olofsson, J., Szűcs, L., °Henning, T., Linz, H., **Pascucci**, I., & Joergens, V. 2013, A&A, 560, A100. *The Herschel/PACS view of disks around low-mass stars in Chamaleon I*
71. Moór, A., Juhász, A., Kóspál, Á. et al. (**Pascucci**, I. 11th author) 2013, ApJL, 777, L25. *ALMA Continuum Observations of a 30 Myr Old Gaseous Debris Disk around HD 21997*
72. Kamp, I., Thi, W.-F., Meeus, G., Woitke, P., Pinte, C., Meijerink, R., Spaans, M., **Pascucci**, I., Aresu, G., & Dent, W. R. F. 2013, A&A, 559, A24. *Uncertainties in water chemistry in disks: An application to TW Hydrae*
73. Kóspál, Á., Moór, A., Juhász, A. et al. (**Pascucci**, I. 11th author) 2013, ApJ, 776, 77. *ALMA Observations of the Molecular Gas in the Debris Disk of the 30 Myr Old Star HD 21997*
74. Moór, A., Ábrahám, P., Kóspál, Á. et al. (**Pascucci**, I. 12th author) 2013, ApJL, 775, L51. *A Resolved Debris Disk around the Candidate Planet-hosting Star HD 95086*
75. Boley, P. A., Linz, H., van Boekel, R. et al. (**Pascucci**, I. 9th author) 2013, A&A, 558, A24. *The VLTI/MIDI survey of massive young stellar objects. Sounding the inner regions around intermediate- and high-mass young stars using mid-infrared interferometry*
76. Mohanty, S., Greaves, J., Mortlock, D., **Pascucci**, I., Scholz, A., Thompson, M., Apai, D., Lodato, G., &Looper, D. 2013, ApJ, 773, 168. *Protoplanetary Disk Masses from Stars to Brown Dwarfs*
77. Rigliaco, E., **Pascucci**, I., Gorti, U., Edwards, S., & Hollenbach, D. 2013, ApJ, 772, 60. *Understanding the Origin of the [O I] Low-velocity Component from T Tauri Stars*
78. Dent, W. R. F., Thi, W. F., Kamp, I. et al. (**Pascucci**, I. 35th author) 2013, PASP, 125, 477. *GASPS—A Herschel Survey of Gas and Dust in Protoplanetary Disks: Summary and Initial Statistics*
79. Joergens, V., Herczeg, G., Liu, Y. et al. (**Pascucci**, I. 4th author) 2013, Astronomische Nachrichten, 334, 159. *Disks, accretion and outflows of brown dwarfs*
80. Szulágyi, J., **Pascucci**, I., Ábrahám, P., Apai, D., Bouwman, J., & Moór, A. 2012, ApJ, 759, 47. *Observational Constraints on the Stellar Radiation Field Impinging on Transitional Disk Atmospheres*

81. Robberto, M., Spina, L., Da Rio, N., Apai, D., **Pascucci, I.**, Ricci, L., Goddi, C., Testi, L., Palla, F., & Bacciotti, F. 2012, *AJ*, 144, 83. *An HST Imaging Survey of Low-mass Stars in the Chamaeleon I Star-forming Region*
82. Harvey, P. M., °Henning, T., Liu, Y., Ménard, F., Pinte, C., Wolf, S., Cieza, L. A., Evans, N. J., & **Pascucci, I.** 2012, *ApJ*, 755, 67. *A Herschel Survey of Cold Dust in Disks around Brown Dwarfs and Low-mass Stars*
83. **Pascucci, I.**, Gorti, U., & Hollenbach, D. 2012, *ApJL*, 751, L42. *Free-Free Emission and Radio Recombination Lines from Photoevaporating Disks*
84. Alexander, R. D., & **Pascucci, I.** 2012, *MNRAS*, 422, L82. *Deserts and pile-ups in the distribution of exoplanets due to photoevaporative disc clearing*
85. Sacco, G. G., Flaccomio, E., **Pascucci, I.**, Lahuis, F., Ercolano, B., Kastner, J. H., Micela, G., Stelzer, B., & Sterzik, M. 2012, *ApJ*, 747, 142. *High-resolution Spectroscopy of Ne II Emission from Young Stellar Objects*
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88. Moór, A., Ábrahám, P., Juhász, A., Kiss, C., **Pascucci, I.**, Kóspál, Á., Apai, D., °Henning, T., Csengeri, T., & Grady, C. 2011, *ApJL*, 740, L7. *Molecular Gas in Young Debris Disks*
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93. Öberg, K. I., Qi, C., Fogel, J. K. J., Bergin, E. A., Andrews, S. M., Espaillat, C., Wilner, D. J., **Pascucci, I.**, & Kastner, J. H. 2011, *ApJ*, 734, 98. *Disk Imaging Survey of Chemistry with SMA. II. Southern Sky Protoplanetary Disk Data and Full Sample Statistics*
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99. Szűcs, L., Apai, D., **Pascucci, I.**, & Dullemond, C. P. 2010, ApJ, 720, 1668. *Stellar-mass-dependent Disk Structure in Coeval Planet-forming Disks*
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139. Klein, R., Apai, D., **Pascucci, I.**, °Henning, T., & Waters, L. B. F. M. 2003, ApJL, 593, L57. **First Detection of Millimeter Dust Emission from Brown Dwarf Disks*
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141. **Pascucci, I.**, °Henning, T., Steinacker, J., & Wolf, S. 2003, Ap&SS, 286, 113. **2D/3D Dust Continuum Radiative Transfer Codes to Analyze and Predict VLTI Observations*
142. Stecklum, B., Brandl, B., °Henning, T., **Pascucci, I.**, Hayward, T. L., & Wilson, J. C. 2002, A&A, 392, 1025. **High resolution mid-infrared imaging of W3(OH)*
143. Apai, D., **Pascucci, I.**, °Henning, T., Sterzik, M. F., Klein, R., Semenov, D., Günther, E., & Stecklum, B. 2002, ApJL, 573, L115. **Probing Dust around Brown Dwarfs: The Naked LP 944-20 and the Disk of Chamaeleon H α 2*

OTHER SCHOLARSHIP (2017-2021)

Abstracts

1. Kim, J. S., Fang, M., Clarke, C., Facchini, S., **Pascucci, I.**, Apai, D., Haworth, Th. 2021. The 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, 283. *External Photoevaporation of Disks around Low Mass Young Stellar and Sub-Stellar Objects*
2. Pegues, J., Öberg, K., Andrews, S. et al. (**Pascucci, I.** 13th author) 2021. The 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, 255. *Characterizing Young, Cool M-Stars and their Planet-Forming Disks*
3. **Pascucci, I.** 2021. Habitable Worlds 2021. Bulletin of the American Astronomical Society, 53, 1147. *Observational constraints for pebble-driven planet formation*
4. Mulders, G. D., **Pascucci, I.**, Ciesla, F. J., Fernandes, R. B. 2021. American Astronomical Society Meeting Abstracts, 53, 317.02. *The Mass Budgets and Spatial Scales of Exoplanets and Protoplanetary Disks*
5. **Pascucci, I.** 2021. American Astronomical Society Meeting Abstracts, 53, 213.01. *The Evolution of Disk Winds from a Combined Study of Optical and Infrared Forbidden Lines*

6. Banzatti, A., **Pascucci, I.**, Bosman, A. et al. 2021. American Astronomical Society Meeting Abstracts, 53, 212.01. *A Spitzer+ALMA synergy: a correlation between water emission inside the snow line and the large-scale distribution of disk pebbles*
7. Mulders, G. D., O'Brien, D., Ciesla, F., Apai, D., & **Pascucci, I.** 2020. AAS/Division for Planetary Sciences Meeting Abstracts, 52, 312.04. *The role of planetesimals and gas in the orbital assembly of close-in exoplanets*
8. Mulders, G. D., Ciesla, F. J., O'Brien, D. P., Apai, D., & **Pascucci, I.** 2020. American Astronomical Society Meeting Abstracts #235, 235, 224.07. *The role of planetesimals and gas in the orbital assembly of close-in exoplanets*
9. Pawellek, N., Moór, A., **Pascucci, I.**, & Krivov, A. 2019. AAS/Division for Extreme Solar Systems Abstracts, 51, 325.01. *Dust Spreading in Debris Discs: Do Small Grains Cling on to Their Birth Environment?*
10. Mulders, G. D., Mordasini, C., **Pascucci, I.**, Ciesla, F., Emsenhuber, A., & Apai, D. 2019. AAS/Division for Extreme Solar Systems Abstracts, 51, 309.09. *Exoplanet Population Synthesis in the Era of Large Exoplanets Surveys*
11. Babaian, D. D., Ricci, L., **Pascucci, I.**, & Isella, A. 2019, American Astronomical Society Meeting Abstracts #234, 234, 105.03. *Linking the properties of protoplanetary disks and their host stars in the Taurus region*
12. Bennett, D., Akeson, R., Alibert, Y. et al. (**Pascucci, I.** 28th author) 2019. BAAS, 51, 505. *Wide-Orbit Exoplanet Demographics*
13. Isella, A., Ricci, L., Andrews, S. et al. (**Pascucci, I.** 37th author) 2019. BAAS, 51, 174. *Observing Planetary Systems in the Making*
14. France, K., **Pascucci, I.**, Dong, R. et al. 2019, BAAS, 51, 167. *Detecting Protoplanets and Tracing the Composition and Evolution of Planet-forming Material with Large UV/Optical Observatories*
15. Arney, G., Batalha, N., Britt, A. V. et al. (**Pascucci, I.** 19th author) 2019. BAAS, 51, 91. *The Sun-like Stars Opportunity*
16. **Pascucci, I.**, Banzatti, A., Fang, M., Edwards, S., & Gorti, U. 2019, American Astronomical Society Meeting Abstracts #233, 233, 317.01. *Mass loss rates and MHD-driven disk winds traced by optical forbidden lines*
17. **Pascucci, I.**, Mulders, G., Fernandes, R., & Gould, A. 2019, American Astronomical Society Meeting Abstracts #233, 233, 227.05. *Exoplanet Populations beyond Kepler*
18. Kim, J. S., Fang, M., Eisner, J., **Pascucci, I.**, Apai, D., Clarke, C., Facchini, S., Manara, C., Kounkel, M., & Covey, K. 2018. 20th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, 45. *Probing Effect of External UV Radiation on Young Stellar and Substellar Mass Objects: Is Orion a Special Place for Observing External Photoevaporation of Disks?*
19. Pascucci, I. 2018. 42nd COSPAR Scientific Assembly, 42, E1.9-1-18. *The Evolution and Dispersal of Planet-forming Disks*
20. Apai, D., Ciesla, F., Mulders, G. D., **Pascucci, I.** et al. 2018, arXiv e-prints, arXiv:1803.08682. *A comprehensive understanding of planet formation is required for assessing planetary habitability and for the search for life*
21. Bennett, D. P., Akeson, R., Anderson, J. et al. (**Pascucci, I.** 47th author) 2018, arXiv e-prints, arXiv:1803.08564. *The WFIRST Exoplanet Microlensing Survey*

22. Banzatti, A., **Pascucci**, I., & Edwards, S. 2018. American Astronomical Society Meeting Abstracts #231, 231, 229.01. *The evolution of inner disk winds from a large survey of high-resolution [OI] spectra*
23. Punzi, K., Kastner, J., Principe, D., Stelzer, B., Gorti, U., **Pascucci**, I., & Argiroffi, C. 2018. American Astronomical Society Meeting Abstracts #231, 231, 133.01. *M Stars in the TW Hydra Association: A Chandra Large Program Survey*
24. Kim, J. S., **Pascucci**, I., Allen, L., Apai, D., Bergin, T., Ciesla, F., Eisner, J., Fang, M., Krijt, S., Najita, J., Rieke, G., & Salyk, C. 2017. Habitable Worlds 2017: A System Science Workshop, 2042, 4071. *Earths in Other Solar Systems: Fundamental Protoplanetary Disk Properties and Their Evolution*
25. Mulders, G. D., Pascucci, I., Apai, D., Ciesla, F. J., & O'Brien, D. P. 2017. Habitable Worlds 2017: A System Science Workshop, 2042, 4047. *Constraining Planet Formation Models from the Kepler Exoplanet Population*
26. Apai, D., Cowan, N., Kopparapu, R. et al. (**Pascucci**, I. 28th author) 2017, arXiv e-prints, arXiv:1708.02821. Exploring Other Worlds: Science Questions for Future Direct Imaging Missions (EXOPAG SAG15 Report)
27. Simon, M., **Pascucci**, I., Edwards, S., Feng, W., Rigliaco, E., Gorti, U., Hollenbach, D. J., & Tuttle Keane, J. 2017. American Astronomical Society Meeting Abstracts #229, 229, 420.05. *Evidence for Magnetically Driven Protoplanetary Disk Winds*
28. Pascucci, I., & SLICK, E. 2017. American Astronomical Society Meeting Abstracts #229, 229, 327.02. *A Steeper than Linear Disk Mass-Stellar Mass Scaling Relation*

Conference Proceedings

1. France, K., Fleming, B., West, G. et al. (**Pascucci**, I. 9th author) 2017. Proceedings of the SPIE, 10397, 1039713. *The LUVOIR Ultraviolet Multi-Object Spectrograph (LUMOS): instrument definition and design*
2. Banzatti, A., Pontoppidan, K. M., Salyk, C., van Dishoeck, E. F., Herczeg, G. J., Blake, G. A., Garufi, A., Kama, M., **Pascucci**, I., & Edwards, S. 2017, Accretion: Building New Worlds Conference, Proceedings of the conference held 15-18 August, 2017 in Houston, Texas. LPI Contribution No. 2043, 2017, id.2016. *Revealing the physical and thermo-chemical evolution of planet-forming disk regions*
3. Kim, J. S., Fang, M., Clarke, C. J., Facchini, S., Pascucci, I., Apai, D., & Bally, J. 2017, Memorie della Società Astronomica Italiana, 88, 790. *Young stellar objects & photoevaporating protoplanetary disks in the Orion's sibling NGC 1977*

Computer Programs: Mulders, G. D., **Pascucci**, I., Apai, D., & Ciesla, F. J. 2019, Astrophysics Source Code Library, ascl:1909.013. *EPOS: Exoplanet Population Observation Simulator*

WORKS IN PROGRESS

- Bergsten, G., **Pascucci**, I. et al. ApJ submitted *Earths and super-Earths into the Habitable Zone*
- Deng, D., Gorti, U., **Pascucci**, I. in prep. *A new approach to estimate gas disk masses from CO millimeter data*
- Fernandes, R., Mulders, G., **Pascucci**, I. et al. ApJ submitted *pterodactyls: A New Tool to Detect and Vet Transiting Young Exoplanet Candidates from TESS Primary Mission Photometry*
- James, M., **Pascucci**, I. et al. in prep. *Towards constraining the pebble inward flux in planet-forming disks*

- Fang, M., **Pascucci, I.** et al. in prep. *Disk winds at the late stages of Protoplanetary Disk Evolution*

CONFERENCES/SCHOLARLY PRESENTATIONS (2017-2021)

Over 40 presentations between 2017-2021, 11 colloquia, 9 invited review talks. All 2020-2021 presentations were given remotely. I declined three review talk invitations between Jan–Sep 2020 due to COVID-19.

Colloquia

1. NASA Jet Propulsion Laboratory *September 2021*
Winds Launched from Protostellar Disks and their Impact on Planet Formation
2. Lunar and Planetary Laboratory *May 2021*
The Evolution of Disk Winds and their Impact on Planet Formation
3. Leibniz Institute for Astrophysics, Potsdam, Germany *Sep 2019*
Angular Momentum Transport in Protoplanetary Disks
4. University of Bern, Switzerland *July 2019*
Scaling Laws in Disks and Exoplanets: Testing Planet Formation Models
5. University of Bologna, Italy *Feb 2018*
Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories
6. University of Groningen, the Netherlands *Jan 2018*
Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories
7. University of Leicester, United Kingdom *Dec 2017*
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
8. MPA, Heidelberg, Germany *Nov 2017*
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
9. University of Michigan, Ann Arbor *Oct 2017*
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
10. Ludwig Maximilian University of Munich, Germany *Jun 2017*
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
11. ETH, Zurich, Switzerland *Mar 2017*
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets

Seminars

1. Origins Seminar Series, virtual, Tucson *Sep 2020*
The Evolution of Disk Winds and their Impact on Planet Formation
2. Steward Observatory Seminar Series, Tucson *Mar 2019*
The LUVOIR Mission Concept Study
3. Virtual seminar series organized by NASA/Goddard *Sep 2018*
Exoplanet Populations beyond Kepler
4. University of Zurich, Switzerland *Jun 2018*
Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories
5. Dublin Institute for Advanced Studies, Ireland *Nov 2017*
Angular Momentum Transport in Protoplanetary Disks

6. MPIA, Heidelberg, Germany *Sep 2017*
Angular Momentum Transport in Protoplanetary Disks: Re-distribute or extract?
7. Origins Seminar Series, Tucson *May 2017*
The Evolution of the Dust Disk-Stellar Mass Scaling Relation
8. CfA, Harvard *Apr 2016*
SLICK - Scaling Laws in Circumstellar disks

Symposia

1. **Invited review talk**, Symposium in honor of Dr. A. Natta, lake Como, Italy *Mar 2019*
The Demographics of Planet-forming Disks
2. **Invited Talk**, Kavli ExoFrontiers Symposium, Cambridge, United Kingdom *Jul 2017*
Disk Dispersal: Impact on Planet Formation and Planetary Atmospheres

Conferences

1. **Contributed talk**, Habitable Worlds *Feb 2021*
Observational constraints for pebble-driven planet formation
2. **Contributed talk**, AAS Meeting #237 *Jan 2021*
The Evolution of Disk Winds from a Combined Study of Optical and Infrared Forbidden Lines
3. **Contributed talk**, DustBusters Mid-Term meeting *Dec 2020*
DustBusters is a 4-year European RISE project of staff exchange between European and non-European nodes. Prof. K. Kratter (Steward) and myself represent the University of Arizona node.
The Evolution of Disk Winds
4. **Invited review talk**, international conference "Five Years after HLTau", ESO *Dec 2020*
The Demographics of Planet-forming Disks.
5. **Contributed talk**, "Exoplanet Demographics" conference, NExSci *Nov 2020*
A Universal Break in the Planet-to-star Mass Ratio: Implications for Planets around Brown Dwarfs
6. **Invited talk**, German Research Foundation, Research Unit Transition Disks *Oct 2020*
The Evolution of Disk Winds
7. **Invited review talk**, Ringberg workshop on planet formation, Germany *Sep 2019*
Mass loss rates and MHD-driven disk winds: An Observational Perspective
8. **Contributed talk**. NASA EOS, All-hands Meeting, Tucson *Sep 2019*
The LUVOIR Mission Concept Study
9. **Contributed talk**, Lunar and Planetary Laboratory Conference, Tucson *Aug 2019*
The impact of stripped cores on the frequency of Earth-sized planets in the habitable zone
10. **Invited review talk**, Ringberg workshop on protoplanetary disks, Germany *Jul 2019*
Mass loss rates and MHD-driven disk winds: An Observational Perspective
11. **Contributed talk**, LUVOIR STDT meeting, Baltimore *Jul 2019*
Signature Science case: how in what environments do planets form?
12. **Contributed talk**, AAS Meeting #233, Seattle *Jan 2019*
Mass loss rates and MHD-driven disk winds traced by optical forbidden lines
13. **Invited talk**, WFIRST special session, AAS Meeting #233, Seattle *Jan 2019*
Exoplanet Populations beyond Kepler

14. **Contributed talk.** NASA EOS, All-hands Meeting, Tucson *Aug 2018*
Team 2: Results, Challenges, Connections
15. **Invited review talk,** COSPAR2018 international conference, Pasadena *Jul 2018*
The Evolution and Dispersal of Planet-forming Disks
16. **Invited review talk,** Star and Planet Formation 2 meeting, Biosphere2, AZ *Mar 2018*
ALMA surveys of planet-forming disks
17. **Contributed talk,** workshop on planet formation, Milan, Italy *Dec 2017*
Scaling Laws in Disks and Exoplanets
18. **Invited review talk,** "Know Thy Star, Know Thy Planet" conference, Pasadena *Oct 2017*
Imprints of Formation on Exoplanets: The role of Stellar Mass and Metallicity
19. **Invited review talk,** "Planet Formation and Evolution", Jena, Germany *Sep 2017*
The Evolution and Dispersal of Planet-forming Disks
20. **Invited Talk,** MIAPP Programme "Protoplanetary Disks and Planet Formation and Evolution", ESO, Munich, Germany *Jun 2017*
Angular Momentum Transport in Protoplanetary Disks
21. **Contributed talk,** AbSciCon, Phoenix *Apr 2017*
Earths in Other Solar Systems: Fundamental Disk Properties and their Evolution
22. **Invited review talk,** Kavli Institute for Theoretical Physics for the program entitled: "Confronting MHD Theories of Accretion Disks with Observations", Santa Barbara *Mar 2017*
Angular Momentum Transport in Protoplanetary Disks: Constraints from disk observations
23. **Contributed talk,** AAS Meeting #229, Grapevine, Texas *Jan 2017*
A Steeper than Linear Disk Mass-Stellar Mass Scaling Relation