

Professor Ilaria Pascucci

Lunar and Planetary Laboratory

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Scientific Interests:

Formation and Evolution of Planetary Systems and Planets; Exoplanet Demographics; Astrobiology, bioessential elements present in and/or delivered to planets

Professional History:

- 2016–present Associate Professor, LPL, The University of Arizona
- 2011–2016 Assistant Professor, LPL, The University of Arizona
- 2009–2011 Staff Astronomer, Space Telescope Science Institute
- 2008–2011 Associate Research Scientist, Johns Hopkins University
- 2004–2008 Research Associate, Steward Observatory, The University of Arizona

Education:

- 2004 Ph.D. Astrophysics, Max Planck Institute for Astronomy (MPIA), Germany
magna cum laude, PhD Advisor : Th. Henning
- 1999 M.A. in Astronomy, University of Bologna, Italy
summa cum laude with Honors, Honor Thesis Advisors: G. Palumbo, M. Wamsley

Languages:

Italian (native), English (fluent), German (intermediate)

Professional Affiliations:

- 2006–pres Member, American Astronomical Society
- 2007–pres Member, Meteoritical Society

Selected Community Service and Committees:

- Referee for Science; The Astrophysical Journal; Astronomy & Astrophysics Journal; Monthly Notices of the Royal Astronomical Society
- Member of the NASA/LUVOIR Science and Technology Definition Team
- Panel reviewer for the Atacama Large Millimeter Array and Hubble Space Telescope proposals
- Panel reviewer for the Hubble, NASA, and Giacconi Postdoctoral Fellowship Programs
- Panel reviewer for NSF research grants and the CAREER program as well as for NASA research grants
- External reviewer for the European Research Council “Ideas Specific Programme”
- LPL: Member of the Strategic Planning Committee, Chair of the Curriculum Committee, Graduate Admissions & Advising Committee, Graduate Student Oral Comprehensive Exam

Teaching:

- LPL/PTYS-450/550 entitled “The Origin of the Solar System and Other Planetary Systems”
- LPL/PTYS-214 entitled “Astrobiology: A Planetary Perspective”
- Osher Lifelong Learning Center at the University of Arizona “The Formation of Earth and Habitable Planets” (Fall 2014)
- Guest Lecturer at the Johns Hopkins University for the class “Interstellar Medium”, graduate student level (Prof. D. Neufeld, Fall 2008)

Current Research Group Members:

- A. Banzatti, postdoc (PhD 2013), Lunar and Planetary Laboratory
- M. Fang, postdoc (PhD 2013), Steward Observatory
- R. Fernandes, graduate student, Lunar and Planetary Laboratory
- N. Hendler, graduate student, Lunar and Planetary Laboratory
- K. Schwarz, NASA Sagan Postdoctoral Fellow (PhD 2018), Lunar and Planetary Laboratory

Past Research Group Members:

- 2013-2018 G. Mulders, postdoc (PhD 2013), Lunar and Planetary Laboratory. Current position: postdoctoral fellow at the University of Chicago
- 2013-2016 M. Simon, graduate student, Lunar and Planetary Laboratory
- 2011-2014 E. Rigliaco, postdoc (PhD 2011), Lunar and Planetary Laboratory. Current position: Marie Curie Fellow at the University of Padova

- 2010-2011 Davide Fedele (PhD 2008), postdoc, Johns Hopkins University. Current position: research staff at the Arcetri Observatory
- 2010-2011 V. Roccatagliata (PhD 2010), postdoc, Space Telescope Science Institute. Current position: Marie Curie Fellow at the Arcetri Observatory
- 2010-2011 B. Riaz (PhD 2008), postdoc, Space Telescope Science Institute. Current position: postdoctoral fellow at the Max Planck Institute for Extraterrestrial Physics
- 2009–2012 Co-Advisor of J. Szulagyi, graduate student at the Eotvos Lorand University, Budapest. Current position: PI of the Ambizione grant by the Swiss National Science Foundation at the University of Zurich.
- 2009–2011 Co-Advisor of L. Szucs undergraduate student at the University of Szeged. Current position: postdoctoral fellow at the Max Planck Institute for Extraterrestrial Physics

Miscellaneous:

– Press Releases:

- 2016 *“Stars Pack Big X-ray Punch for Would-be Planets”*
- 2015 *“Got Planets? Smaller Stars are Best Bet”*
- 2012 *“Popular Solar System Orbits Result in Planet Pileups”*
- 2009 *“Cool Stars have different mix of life-forming chemicals”*
- 2007 two releases on the content and evolution of gas in protoplanetary disks *“Cosmic Neon Lights the Way”* and *“Gas Giants Form Quickly”*
- 2005 *“NASA’s Spitzer Finds Failed Stars May Succeed in Planet Business”*

– Written successful proposals and acquired data from: Atacama Large Millimeter Array, Hubble Space Telescope, Spitzer Space Telescope, Herschel Space Observatory, ESO Very Large Telescope, Keck, e-MERLIN, Gemini South, IRAM 30-m telescope, James Clerk Maxwell Telescope, Submillimeter Array Telescope, Australia Telescope Compact Array

List of publications and major talks

18 First–author refereed publications, 112 refereed publications, 4633+ citations, H-index 44
The complete list of publications is also available at this [NASA ADS link](#)

Refereed Publications: (*= Student or postdoc advised by I. Pascucci)

112. Long, F., Herczeg, G. J., Pascucci, I. et al. 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?*
111. *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*
110. Eisner, J. A. 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*
109. Pinilla, P., Tazzari, M., **Pascucci, I.** et al. 2018, 859, 32: *Homogeneous Analysis of the Dust Morphology of Transition Disks Observed with ALMA: Investigating Dust Trapping and the Origin of the Cavities*
108. **Pascucci, I.**, *Mulders, G. D., Gould, A., *Fernandes, R. 2018, ApJL, 856, 28: *A Universal Break in the Planet-to-star Mass-ratio Function of Kepler MKG Stars*
107. Liu, H. B., Dunham, M. M., **Pascucci, I.** et al. 2018, A&A, 612A, 54: *A 1.3 mm SMA survey of 29 variable young stellar objects*
106. *Hendler, N. P., Pinilla, P., **Pascucci, I.** et al. 2018, MNRAS, 475L, 62: *A likely planet-induced gap in the disc around T Cha*
105. Fedele, D. et al. (**Pascucci, I.** 5th author) 2018, A&A, 610A, 24: *ALMA continuum observations of the protoplanetary disk AS 209. Evidence of multiple gaps opened by a single planet*
104. *Mulders, G. D., **Pascucci, I.**, Manara, Carlo F. et al. 2017, ApJ, 847, 31: *Constraints from Dust Mass and Mass Accretion Rate Measurements on Angular Momentum Transport in Protoplanetary Disks*
103. Long, F., Herczeg, G. J., **Pascucci, I.**, Drabek-Maunder, E., Mohanty, S., Testi, L., Apai, D., *Hendler, N., Henning, T., Manara, C. F., Mulders, G. D. 2017, ApJ, 844, 99: *An ALMA Survey of CO Isotopologue Emission from Protoplanetary Disks in Chamaeleon I*
102. Manara, C. F., Testi, L., Herczeg, G. J., **Pascucci, I.**, Alcalá, J. M., Natta, A., Antonucci, S., Fedele, D., *Mulders, G. D., Henning, T., Mohanty, S., Prusti, T., Rigliaco, E. 2017, A&A, 604A, 127: *X-shooter study of accretion in Chamaeleon I. II. A steeper increase of accretion with stellar mass for very low-mass stars?*
101. Ricci, L., Cazzoletti, P., Czekala, I., Andrews, S. M., Wilner, D., Szűcs, L., Lodato, G., Testi, L., **Pascucci, I.**, Mohanty, S., Apai, D., Carpenter, J. M., Bowler, B. P. 2017, AJ, 154, 24: *ALMA Observations of the Young Substellar Binary System 2M1207*

100. *Hendler, N. P., *Mulders, G. D., **Pascucci, I.**, Greenwood, A., Kamp, I., Henning, T., Mé-
nard, F., Dent, W. R. F., Evans, N. J., II 2017, ApJ, 841, 116: *Hints for Small Disks around Very
Low Mass Stars and Brown Dwarfs*
99. Ercolano, B. & **Pascucci, I.** 2017, RSOS, 470114: *The dispersal of planet-forming discs:
theory confronts observations*
98. 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 Ori-
on: Spectroscopic Survey of Young Stars with Low Extinction in Orion A*
97. Fang, M., Kim, J. S., **Pascucci, I.**, Apai, D., Manara, C. F. 2016, ApJ, 833L, 16: *A Candidate
Planetary-mass Object with a Photoevaporating Disk in Orion*
96. *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*
95. *Simon, M., **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 For-
bidden Line Emission*
94. **Pascucci, I.**, Testi, L., Herczeg, G. J. et al. 2016, ApJ, 831, 125: *A Steeper than Linear Disk
Mass-Stellar Mass Scaling Relation*
93. 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*
92. *Mulders, G. D., **Pascucci, I.**, Apai, D. 2015, ApJ, 814, 130: *An Increase in the Mass of
Planetary Systems around Lower-mass Stars*
91. Moór, A. et al. (**Pascucci, I.** 6th author) 2015, ApJ, 814, 42: *Discovery of Molecular Gas
around HD 131835 in an APEX Molecular Line Survey of Bright Debris Disks*
90. **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*
89. *Mulders, G. D., Ciesla, F. J., Min, M., **Pascucci, I.** 2015, ApJ, 807, 9: *The Snow Line in Vis-
cous Disks around Low-mass Stars: Implications for Water Delivery to Terrestrial Planets in the
Habitable Zone*
88. 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*
87. *Rigliaco, E., **Pascucci, I.**, Duchene, G., Edwards, S., Ardila, D. R., Grady, C.,
Mendigutía, I., Montesinos, B., Mulders, G. D., Najita, J. R., Carpenter, J., Furlan, E., Gorti, U.,
Meijerink, R., Meyer, M., R. 2015, ApJ, 801, 31: *Probing Stellar Accretion with Mid-infrared
Hydrogen Lines*

86. 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*
85. Mulders*, G. D., **Pascucci, I.**, Apai, D. 2015, ApJ, 798, 112: *A Stellar-mass-dependent Drop in Planet Occurrence Rates*
84. **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*
83. Galván-Madrid, R., Liu, H. B., Manara, C. F., Forbrich, J., **Pascucci, I.**, Carrasco-González, C., Goddi, C., Hasegawa, Y., Takami, M., Testi, L. 2015, A&A, 570, L9: *Constraints on photoevaporation models from (lack of) radio emission in the Corona Australis protoplanetary disks*
82. Todorov, K. O. et al. (**Pascucci, I.** 7th author) 2014, ApJ, 788, 40: *A Search for Companions to Brown Dwarfs in the Taurus and Chamaeleon Star-Forming Regions*
81. Keane*, J. T., **Pascucci, I.**, Espaillat, C., Woitke, P., Andrews, S., Kamp, I., Thi, W.-F., Meus, G., Dent, W. R. F. 2014, ApJ, 787, 135: *Herschel Evidence for Disk Flattening or Gas Depletion in Transitional Disks*
80. Alexander, R., **Pascucci, I.**, Andrews, S., Armitage, P., Cieza, L. 2014, review chapter in Protoplanets and Planets VI, Henrik Beuther, Ralf S. Klessen, Cornelis P. Dullemond, and Thomas Henning (eds.), University of Arizona Press, Tucson, 914, 475: *The Dispersal of Protoplanetary Disks*
79. **Pascucci, I.**, Herczeg, G., Carr, J., Bruderer, S. 2013, ApJ, 779, 178: *The Atomic and Molecular Content of Disks around Very Low-mass Stars and Brown Dwarfs*
78. Olofsson, J., Szűcs, L., Henning, Th., Linz, H., **Pascucci, I.**, Joergens, V. 2013, A&A, 560A, 100: *The Herschel/PACS view of disks around low-mass stars in Chamaeleon-I*
77. Moór, A. et al. (**Pascucci, I.** 11th author) 2013, ApJ, 777L, 25: *ALMA Continuum Observations of the 30 Myr Old Gaseous Debris Disk around HD21997*
76. Kamp, I., Thi, W.-F., Meeus, G., Woitke, P., Pinte, C., Meijerink, R., Spaans, M., **Pascucci, I.**, Aresu, G., Dent, W. 2013, A&A, 559A, 24 : *Uncertainties in water chemistry in disks: An application to TW Hydrae*
75. Kóspal, 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 HD21997*
74. Moór, A. et al. (**Pascucci, I.** 12th author) 2013, ApJ, 775L, 51: *A Resolved Debris Disk around the Candidate Planet-hosting Star HD 95086*
73. Boley, P. A. et al. . (**Pascucci, I.** 9th author) 2013, A&A, 558A, 24B: *The VLTI/MIDI survey of massive young stellar objects. Sounding the inner regions around intermediate- and high-mass young stars using mid-infrared interferometry*

72. Mohanty, S. et al. (**Pascucci, I.** 4th author) 2013, ApJ, 773, 168: *Protoplanetary Disk Masses from Stars to Brown Dwarfs*
71. *Rigliaco, E., **Pascucci, I.**, Gorti, U., Edwards, S., Hollenbach, D. 2013, ApJ, 772, 60: *Understanding the Origin of the [OI] Low-velocity Component from T Tauri Stars*
70. Dent, W. 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*
69. Joergens, V., Herczeg, G., Liu, Y., **Pascucci, I.** et al. 2013, AN, 334, 159: *Disks, accretion and outflows of brown dwarfs*
68. *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.*
67. Robberto, M. et al. (**Pascucci, I.** 5th author) 2012, AJ, 144, 83: *An HST Imaging Survey of Low-mass Stars in the Chamaeleon I Star-forming Region*
66. Harvey, P. et al. (**Pascucci, I.** 9th author) 2012, ApJ, 755, 67: *A Herschel Survey of Cold Dust in Disks around Brown Dwarfs and Low-mass Stars*
65. **Pascucci, I.**, Gorti, U., Hollenbach, D. 2012, ApJ, 751, L42: *Free-Free Emission and Radio Recombination Lines from Photoevaporating Disks*
64. Alexander, R. D. & **Pascucci, I.** 2012, MNRAS, 422, L82: *Deserts and pile-ups in the distribution of exoplanets due to photoevaporative disc clearing*
63. Sacco, G. G., Flaccomio, E., **Pascucci, I.** et al. 2012, ApJ, 747, 142: *High-resolution Spectroscopy of Ne II Emission from Young Stellar Objects*
62. Banzatti, A. et al. (**Pascucci, I.** 5th author) 2012, ApJ, 745, 90: *EX Lupi from Quiescent to Outburst: Exploring the LTE Approach in Modeling Blended H₂O and OH Mid-infrared emission*
61. Harvey, P. et al. (**Pascucci, I.** 8th author) 2012, ApJ, 744, L1: *A Herschel Search for Cold Dust in Brown Dwarf Disks: First Results*
60. Moór, A. et al. (**Pascucci, I.** 4th author) 2011, ApJ, 740, L7: *Molecular Gas in Young Debris Disks*
59. Woitke, P. et al. (**Pascucci, I.** 4th author) 2011, A&A, 534A, 44: *The unusual protoplanetary disk around the T Tauri star ET Chamaeleontis*
58. Dalle Ore, C. M. et al. (**Pascucci, I.** 10th author) 2011, A&A, 533A, 98: *Organic materials in planetary and protoplanetary systems: nature or nurture?*
57. **Pascucci, I.**, Sterzik, M., Alexander, R. D., Alencar, S. H. P., Gorti, U., Hollenbach, D., Owen, J., Ercolano, B., Edwards, S. 2011, ApJ, 736, 13: *The Photoevaporative Wind from the Disk of TW Hya*

56. Gorti, U. et al. (**Pascucci, I.** 4th author) 2011, ApJ, 735, 90: *Emission Lines from the Gas Disk around TW Hya and the Origin of the Inner Hole*
55. Oberg et al. (**Pascucci, I.** 8th author) 2011, ApJ, 734, 98: *Disk Imaging survey of Chemistry with SMA. II. Southern Sky Protoplanetary Disk Data and Full Sample Statistics*
54. Teske, J. et al. (**Pascucci, I.** 4th author) 2011, ApJ, 734, 27: *Measuring Organic Molecular Emission in Disks with Low-resolution Spitzer Spectroscopy*
53. Thi, W-F. et al. (**Pascucci, I.** 9th author) 2011, A&A, 520, L2: *Detection of CH⁺ emission from the disc of HD 100546*
52. Skemer, A. J. et al. (**Pascucci, I.** 6th author) 2011, ApJ, 732, 107: *Water Evidence Against and Edge-on Disk Around the Extrasolar Planet 2MASS 1207b and a New Thick-cloud Explanation for Its Underluminosity*
51. *Fedele, D., **Pascucci, I.** et al. 2011, ApJ, 732, 106: *Water Depletion in the Disk Atmosphere of Herbig AeBe Stars*
50. Moór, A., **Pascucci, I.** et al. 2011, ApJS, 193, 4: *The Structure and Evolution of Debris Disks around F-type Stars. I. Observations, Database, and Basic Evolutionary Aspects*
49. **Pascucci, I.** et al. 2010, SPIE, 7731, 105: *Monitoring the Wavelength Calibration Lamps for the Hubble Space Telescope*
48. *Szűcs, L., Apai, D., **Pascucci, I.**, Dullemond, C. P. 2010, ApJ, 720, 1668: *Stellar mass-dependent Disk Structure in Coeval Planet-forming Disks*
47. Oberg, K. I. et al. (**Pascucci** 10th author) 2010, ApJ, 720, 480: *The Disk Imaging Survey of Chemistry with SMA. I. Taurus Protoplanetary Disk Data*
46. Mathews, G. S. et al. (**Pascucci** 39th author) 2010, A&A, 518, L127: *Gas in Protoplanetary Systems. I. First results*
45. Pinte, C. et al. (**Pascucci** 41st author) 2010, A&A, 518, L126: *The Herschel view of GAS in Protoplanetary Systems (GASPS). First comparisons with a large grid of models*
44. Thi, W-F. et al. (**Pascucci** 11th author) 2010, A&A, 518, L125: *Herschel-PACS observation of the 10 Myr old T Tauri disk TW Hya*
43. Meeus, G. et al. (**Pascucci** 41st author) 2010, A&A, 518, L124: *Gas in the protoplanetary disc of HD 169142: Herschel's view*

42. Najita, J. et al. (**Pascucci, I.** 5th author) 2010, ApJ, 712, 274: *Spitzer Spectroscopy of the Transition Object TW Hya*
41. **Pascucci, I.** & Tachibana, S. 2010, review chapter for the book Protoplanetary Dust: : Astrophysical and Cosmochemical Perspectives, eds.: D. Apai, D. S. Lauretta, 2010, Cambridge University Press, 263: *The Clearing of Protoplanetary Disks and of the Protosolar Nebula*
40. Ingleby, L. et al. (**Pascucci** 11th author) 2009, ApJ, 703, L137: *Far-Ultraviolet H2 Emission from Circumstellar Disks*
39. Linz, H., Henning, Th., Feldt, M., **Pascucci, I.** et al. 2009, A&A, 505, 655: *Mid-infrared interferometry of massive young stellar objects. I. VLTI and Subaru observations of the enigmatic object M8E-IR*
38. **Pascucci, I.** & Sterzik, M. et al. 2009, ApJ, 702, 724: *Evidence for Disk Photoevaporation Driven by the Central Star*
37. Moór, A., Apai, D., **Pascucci, I.**, Ábrahám, P., Grady, C., Henning, Th., Juhász, A.; Kiss, Cs., Kóspál, Á. 2009, ApJ, L700: *The Discovery of New Warm Debris Disks Around F-type Stars*
36. Cortes, S. R., Meyer, M. R., Carpenter, J. M., **Pascucci, I.** et al. 2009, ApJ, 697, 1305: *Grain Growth and Global Structure in Protoplanetary Disks: The Case of the Unusual Classical T Tauri star PDS66*
35. **Pascucci, I.**, Apai, D., Luhman, K. et al. 2009, ApJ, 696, 143: *The Different Evolution of Gas and Dust in Disks around Sun-like and Cool Stars*
34. Juhász, A., Henning, Th. Bouwman, J., Dullemond, C. P., **Pascucci, I.**, Apai, D. 2009, ApJ, 695, 1024: *Do we really know the dust? Systematics and uncertainties of the mid-infrared spectral analysis methods*
33. Meeus, G. et al. (**Pascucci** 8th author) 2009, A&A, 497, 379: *MBM 12: young protoplanetary discs at high galactic latitude*
32. Carpenter, J. M. et al. (**Pascucci** 12th author) 2009, ApJS, 181, 197: *The Formation and Evolution of Planetary Systems (FEPS): Properties of Debris Dust around Solar-type Stars*
31. Linz, H., Stecklum, B., Follert, R., Henning, Th, van Boekel, R., Men'shchikov, A., **Pascucci, I.**, Feldt, M. 2008, JPhCS, 131a, 2024: *Mid-infrared interferometry of massive young stellar objects*

30. Bouwman, J., Henning, Th., Hillenbrand, L. A., Meyer, M. R., **Pascucci, I.** et al. 2008, ApJ, 683, 479: *The formation and evolution of planetary systems: Grain growth and chemical processing of dust in TTS systems*
29. Hillenbrand, L. A. et al. (**Pascucci** 9th author) 2008, ApJ, 677, 630: *The Complete Census of 70 μ m-bright Debris Disks within “the Formation and Evolution of Planetary Systems“ Spitzer Legacy Survey of Sun-like Stars*
28. Meyer, M. R. et al. (**Pascucci** 11th author) 2008, ApJ, L673, 181: *Evolution of Mid-Infrared Excess around Sun-like Stars: Constraints on Models of Terrestrial Planet Formation*
27. **Pascucci, I.**, Apai, D., Hardegree-Ullman*, E., Kim, J. S., Meyer, M. R., Bouwman, J. 2008, ApJ, 673, 477: *Medium-separation binaries do not affect the first steps of planet formation*
26. Apai, D. et al. (**Pascucci** 8th author) 2008, ApJ, 672, 1196: *A Survey of Massive Giant Planets in Debris Disks with Evacuated Inner Cavities*
25. Herczeg, G. J., Najita, J., Hillenbrand, L. A., **Pascucci, I.** 2007, ApJ, 670, 509: *High-resolution Spectroscopy of [Ne II] Emission from TW Hya*
24. Fontani, F., **Pascucci, I.**, Caselli, P., Wyrowski, F., Cesaroni, R., Walmsley, C. M. 2007, A&A, 470, 639: *Comparative study of complex N- and O-bearing molecules in hot molecular cores*
23. **Pascucci, I.**, Hollenbach, D., Najita, J. et al. 2007, ApJ, 663, 383: *Detection of [Ne II] Emission from Young Circumstellar Disks*
22. Moro-Martín, A. et al. (**Pascucci** 14th author) 2007, ApJ, 658, 1312: *Are Debris Disks and Massive Planets Correlated?*
21. Luhman, K. L., Joergens, V., Lada, C., Muzerolle, J., **Pascucci, I.**, White, R. 2007, 443, in Protostars and Planets V, eds. B. Reipurth, D. Jewitt, and K. Keil (University of Arizona Press): *The Formation of Brown Dwarfs: Observations*
20. Meyer, M. R. et al. (**Pascucci** 22nd author) 2006, PASP, 118, 1690: *The Formation and Evolution of Planetary Systems: Placing Our Solar System in Context with Spitzer*
19. **Pascucci, I.**, Gorti, U., Hollenbach, D. et al. 2006, ApJ, 651, 1177: *Formation and Evolution of Planetary Systems: Upper Limits to the Gas Mass in Disks Around Sun-like Stars*

18. Goto, M., Stecklum, B., Linz, H., Feldt, M., Henning, Th., **Pascucci, I.**, Usuda, T. 2006, ApJ, 649, 299: [High-Resolution Infrared Imaging of Herschel 36 SE: A Showcase for the Influence of Massive Stars in Cluster Environments](#)
17. Silverstone, M. D., Meyer, M. R., Mamajek, E. E., Hines, D. C., Hillenbrand, L. A., Najita, J., **Pascucci, I.** et al. 2006, ApJ, 639, 1138: [Formation and Evolution of Planetary Systems \(FEPS\): Primordial Warm Dust Evolution from 3 to 30 Myr around Sun-like Stars](#)
16. Apai, D., **Pascucci, I.**, Bouwman, J. et al. 2005, Science, 310, 834: [The Onset of Planet Formation in Brown Dwarf Disks](#)
15. Kim, J. S. et al. (**Pascucci, I.** 14th author) 2005, ApJ, 632, 659: [Formation and Evolution of Planetary Systems: Cold Outer Disks Associated with Sun-like Stars](#)
14. Hollenbach, D. et al. (**Pascucci** 8th author) 2005, ApJ, 631, 1180: [Formation and Evolution of Planetary Systems: Upper Limits to the Gas Mass in HD 105](#)
13. Chesneau, O. et al. (**Pascucci** 7th author) 2005, A&A, 435, 1043 : [The sub-arcsecond dusty environment of Eta Carinae](#)
12. Sterzik, M. F., **Pascucci, I.** et al. 2004 A&A, 427, 245: [Evolution of young brown dwarf disks in the mid-infrared](#)
11. Apai, D., **Pascucci, I.**, Sterzik, M. F. et al. 2004, A&A 426, L53: [Grain growth and dust settling in a brown dwarf disk. Gemini/T-ReCS observations of CFHT-BD-Tau 4](#)
10. **Pascucci, I.**, Apai, D., Henning, Th. et al. 2004, A&A 426, 523: [The Hot Core-UC H II Connection in G10.47](#)
9. **Pascucci, I.**, Wolf, S., Steinacker, J. et al. 2004, A&A, 417, 793 : [The 2D continuum radiative transfer problem. Benchmark results for disk configurations](#)
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7. Wang, H., Apai, D., Henning, Th., **Pascucci, I.** 2004, ApJ, 601, L83: [FU Orionis – A Binary Star?](#)
6. Kun, M., Apai, D., **Pascucci, I.**, et al. 2004, BaltA, 13, 434: [Initial Conditions of Low, Intermediate and High Mass Star Formation](#)
5. Klein, R., Apai, D., **Pascucci, I.**, Henning, Th., Waters, L. B. F. M. 2003, ApJ, 593, L57: [First Detection of Millimeter Dust Emission from Brown Dwarf Disks](#)

4. **Pascucci, I.**, Apai, D., Henning, Th., Dullemond, C. P. 2003, ApJ 590, L111:
The First Detailed Look at a Brown Dwarf Disk
3. **Pascucci, I.**, Henning, Th., Steinacker, J., Wolf, S. 2003, Ap&SS, 286, 113: *2D/3D Dust Continuum Radiative Transfer Codes to Analyze and Predict VLTI Observations*
2. Stecklum, B., Brandl, B., Henning, Th., **Pascucci, I.** et al. 2002, A&A, 392, 1025:
High resolution mid-infrared imaging of W3(OH)
1. Apai, D., **Pascucci, I.**, Henning, Th. et al. 2002, ApJ, 573, L115:
Probing Dust around Brown Dwarfs: The naked LP 944-20 and the Disk of ChaH α 2

Selected Invited Talks and Colloquia:

- *The Evolution and Dispersal of Planet-forming Disks* – invited review talk at the COSPAR2018 meeting in Pasadena, 16 July, 2018
- *ALMA surveys of planet-forming disks* – invited review talk at the Star and Planet Formation 2 meeting at the Biosphere2, Tucson, 13 March, 2018.
- *Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories* – colloquium at the University of Bologna, 12 February, 2018
- *Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories* – colloquium at the University of Groningen, 16 January, 2018
- *Angular Momentum Transport in Protoplanetary Disks: Re-distribute or extract, that is the question* – invited seminar at the Dublin Institute for Advanced Studies, 29 November, 2017
- *The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets* – colloquium at the University of Michigan, 26 October, 2017
- *Imprints of Formation on Exoplanets: The role of Stellar Mass and Metallicity* – invited review talk at the conference "Know Thy Star, Know Thy Planet" in Pasadena, 10 October, 2017
- *The Evolution and Dispersal of Planet-forming Disks* – invited review talk at the Planet Formation and Evolution meeting in Jena, 25 September, 2017, Germany.
- *The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets* – colloquium at the Ludwig-Maximilians University in Munich, 26 June, 2017, Munich, Germany
- *Angular Momentum Transport in Protoplanetary Disks: Constraints from disk observations* – invited review talk at the Kavli Institute for Theoretical Physics for the program entitled: "Confronting MHD Theories of Accretion Disks with Observations", 27 March, 2017, Santa Barbara, California
- *The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets* – colloquium at the ETH in Zurich, March 6, 2017, Zurich, Switzerland
- *What do we know of planet-forming disk regions around other stars?* – invited review talk at the workshop Linking Exoplanet and Disk Compositions, 12-14 September, 2016, Space Telescope Science Institute, Baltimore
- *Brown Dwarf Disks* – invited talk at the Symposium in honor of the MPA Director Th. Henning, 29 April, 2016, Max Planck Institute for Astronomy, Heidelberg

- *Disk Dispersal by Star-driven Photoevaporation: Progress and Perspective* – review talk at the workshop “Exchanging mass, momentum, and ideas: connecting accretion and outflows in young stellar objects”, ESA-ESTEC, The Netherlands, 27-29 October, 2015
- *Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories* – ESO/MPA/MPE/USM Joint Astronomy colloquium, 22 October, 2015
- *Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories* – colloquium at the ETH Zurich, 20 October, 2015
- *Planet Formation with JWST* – review talk, Exploring the Universe with JWST conference, ESA-ESTEC, The Netherlands, 12-16 October, 2015
- *Establishing the Disk Mass-Stellar Mass Scaling Relation* – invited talk at the NRAO Community Workshop, Biosphere 2, Tucson, USA, 27 March, 2015
- *Disk Dispersal and Planets* – review talk, Gordon Conference on the Origins of Solar Systems, Mount Holyoke College, USA, June 28 - July 3, 2015
- *The Dispersal of Protoplanetary Disks* – review talk, Protostars and Planets VI conference, Heidelberg, Germany, July 15-20, 2013
- *Warm Gas in the Planet Forming Region of Disks* – invited talk at the 221st AAS meeting in Long Beach, CA, January 2013
- *The Disk Scaling Laws: Gas and Dust in Disks around Stars down to Brown Dwarfs* – invited talk at the “Cool Stars 17” Cambridge Workshop, Barcelona, Spain, July 2012
- *Planet Formation around M dwarf stars* – talk at the workshop “Transiting Planets in the House of the Sun”, Maui, Hawaii, June 2012
- *The Origins of Planetary Systems, Constraints from Protoplanetary Disks* – colloquium at the University of Toronto, Canada, January 2012
- *The Origins of Planetary Systems* – colloquium, invited as Beatrice M. Tinsley Research Scholar, University of Texas, Austin, November 6-10, 2011
- *Evolution of Gas in Protoplanetary Disks* – review talk at “Herschel and the Formation of Stars and Planetary Systems”, Goteborg, Sweden, September 2010
- *The Chemistry of Protoplanetary Disks* – talk at the Meudon workshop on “Organic material in planetary systems: nature or nurture?”, Meudon, June, 2010

- *The Origins of Planetary Systems and Life, Constraints from Protoplanetary Disks* – colloquium at the LPL, University of Arizona, Tucson, March, 2010
- *Gas in the planet-forming region of disks* – review talk at the Origins of Solar Systems Gordon Research Conference, Mount Holyoke, July 2009
- *Evolution of Gas in Protoplanetary Disks* – talk at the Workshop “Experimentation and Modeling in Cosmochemistry” in conjunction with the 72nd annual meeting of the Meteoritical Society, Nancy, July 2009 (declined, time conflict with the Gordon Conference)
- *The Clearing of Protoplanetary Disks and of the Solar Nebula: How Common is the History of the Solar System?* – colloquium at the Department of Astronomy, University of Michigan, October 2008
- *Disk Dispersal and The Formation of Planets* – colloquium at the Department of Physics and Astronomy, Stony Brook University, January 2008
- *Disk Dispersal and The Formation of Planets* – colloquium at the Department of Physics, University of Utah, Salt Lake City, December 2007

Selected Contributed Talks and Seminars:

C33. *The Evolution of the Dust Disk-Stellar Mass Scaling Relation* – seminar at the Steward Observatory, The University of Arizona, 22 May, 2017

C32. *Earths In Other Solar Systems: Fundamental Properties and their Evolution* – contributed talk at the AbSciCon2017 conference in Mesa, Arizona, 25 April, 2017

C31. *SLICK: Scaling Laws In Circumstellar disks* – seminar at the Smithsonian Astrophysical Observatory, Cambridge, USA, 25 April, 2016

C30. *Disk Dispersal and the Architecture of Planetary Systems* – seminar at the MaxPlanck Institute for Astronomy, Heidelberg, Germany, 22 July, 2015

C29. *The Dispersal of Protoplanetary Disks: Impact on Planetary Architectures* – talk at the 46th Division for Planetary Sciences meeting, Tucson, AZ, 9-14 November 2014

C28. *The EUV Luminosity from Young Cool Stars: Implications for the Dispersal of Protoplanetary Material* – talk at the “Cool Stars 18” Cambridge workshop, Flagstaff, Arizona, June 2014

C27. *An enhanced carbon chemistry in disks around very low-mass stars and brown dwarfs?* – talk at the “Search for Life Beyond the Solar System” conference, Tucson, Arizona, March 2014

C26. *Free free emission from Photoevaporating Disks* – talk at the 221st AAS meeting in Long Beach, CA, January 2013

C25. *The Mechanisms Driving the Evolution and Dispersal of Protoplanetary Disks* – talk at the “Exploring Strange New Worlds” meeting, Flagstaff, May 2011

C24. *Organic Molecules in Brown Dwarf Disks* – talk at the “Delivery of Volatiles and Organics” workshop at the STScI, Baltimore, September 2010

C23. *Monitoring of the Wavelength Calibration Lamps for HST* – TIPS/STScI, Baltimore, September 2010

C22. *The Clearing of Protoplanetary Disks* – Hot Science at the STScI, Baltimore, August 2010

C21. *Comparative Study of the Gas and Dust in Disks Around Sun-like and Cool Stars* – talk at the AAS meeting in Washington, January 2010

C20. *The mechanisms driving the evolution and dispersal of protoplanetary disks* – talk at the ESO workshop “From Circumstellar Disks to Planetary Systems”, Garching, November 2009

- C19. *Gas Evolution in the Planet forming Region of Disks* – talk at the IAU, Brazil, August 2009
- C18. *From Gas-rich to Gas-poor disks: Timescales and Mechanisms for Protoplanetary Disk Dispersal* – talk at the University of Padova, July 2009
- C17. *Disk Dispersal and Planet Formation Timescales* – talk at UMD, Maryland, March 2009
- C16. *From Gas-rich to Gas-poor disks: Timescales and Mechanisms for Protoplanetary Disk Dispersal* – talk at the DTM, Carnegie Institution of Washington, February 2009
- C15. *The Clearing of Protoplanetary Disks and of the Solar Nebula: How Common is the History of the Solar System?* – Johns Hopkins University, February 2009
- C14. *The Clearing of Protoplanetary Disks and of the Solar Nebula: How Common is the History of the Solar System?* – NASA Goddard Extrasolar Planets seminar, November 2008
- C13. *Planet Formation in Multiple Star Systems* – seminar at the Space Telescope Science Institute, September 2008
- C12. *Different Organic Chemistry in Disks around Sun-like and Cool Stars* – talk at the Cool Stars, Stellar Systems, and the Sun 15 meeting, St. Andrews, Scotland, July 2008
- C11. *Disk Dispersal and the Formation of Planets* – seminar at the Lowell Observatory, Flagstaff, July 2008
- C10. *The Evolution of Disks around Young Stars* – seminar at the Department of Physics and Astronomy, The Johns Hopkins University, May 2008
- C9. *Disk Dissipation and Planet Formation* – seminar at the Department of Astrophysical Sciences, Princeton, December 2007
- C8. *Stellar Companions and the Early Stages of Planet Formation* – talk at the 70th Annual Meteoritical Society Meeting, Tucson, AZ, August 2007
- C7. *Disk Dissipation and Planet Formation* – talk at CNR, Bologna, August 2007
- C6. *Gas in Disks around Sun-like Stars: Results from the FEPS Spitzer Legacy Program* – talk at the Planet-Disc Connection conference, Cambridge, UK, July 2006
- C5. *Dust Processing in Brown Dwarf Disks: the Spitzer view* – talk at NASA AMES, May 2006
- C4. *Modeling Observations of Circumstellar Disks* – talk at ITA, Heidelberg, October 2005

C3. *Brown dwarfs: disk structure and dust mineralogy* – talk at the International Workshop on Low-mass stars and brown dwarfs, Volterra, Italy, September 2005

C2. *Circumstellar Disks: from massive to debris* – talk at Arcetri Observatory, September 2005

C1. *Brown Dwarf Disks: possible targets for TPF/Darwin* – talk at the second Darwin/TPF Conference, San Diego, July 2004