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CHRONOLOGY OF EDUCATION

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	
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	

CHRONOLOGY OF EMPLOYMENT

Full Professor , Lunar and Planetary Laboratory, U. Arizona	<i>2022-present</i>
Associate Department Head , Lunar and Planetary Laboratory, U. Arizona	<i>2021-2023</i>
Associate Professor , Lunar and Planetary Laboratory, U. Arizona	<i>2016-2022</i>
Assistant Professor , Lunar and Planetary Laboratory, U. Arizona	<i>2011-2016</i>
Staff Astronomer , Space Telescope Science Institute	<i>2009-2011</i>
Associate Research Scientist , Johns Hopkins University	<i>2008-2011</i>
Research Associate , Steward Observatory, U. Arizona	<i>2004-2008</i>

HONORS AND AWARDS (LIMITED TO 2017-2026)

Henry and Phyllis Koffler Award for excellence in Research/Scholarship/Creative Activity	<i>2025</i>
Rieke's Prize honoree	<i>2025</i>
Blitzer Award for Excellence in the Teaching of Physics and Related Sciences	<i>2024</i>
Premio Circolo della Stampa di Pesaro, Italy	<i>2024</i>
Appointed as Chair of NASA's ExoPAG Executive Committee	<i>2022-2025</i>
Appointed as member of NASA's Astrophysics Advisory Committee	<i>2022-2025</i>
Fellow of the American Astronomical Society	<i>2022</i>
Appointed as member of NASA's ExoPAG Executive Committee	<i>2021-2022</i>
Visiting Professor, University of Bern, Switzerland	<i>2019</i>
Robert H. Goddard Team Award: LUVOIR Science and Technology Definition Team	<i>2019</i>
Visiting Professor, Max Planck Institute for Astronomy, Germany	<i>2017-2018</i>
Appointed as a member of the Science and Technology Definition Team for LUVOIR	<i>2016-2020</i>

SELECTED ACTIVITIES IN SERVICE AND OUTREACH

Departmental Committees:

– Blitzer award representative	2024-pres.
– Diversity, Equity, Inclusion Committee	2024-pres.
– Faculty status (P&T)	2024-pres.
– Associate Department Head for the Graduate Program	2021-2023
– Written Exam Committee, Member	2019-2022
– Strategic Planning Committee, Chair for the science topic <i>Origins</i>	2019
– Graduate Admission and Advising Committee, Chair	2018-2020
– Science Center for Astrobiology, Faculty Contact	2016-2017
– Curriculum Committee, Chair	2016-2017
– Awards Committee, Chair	2016-2017
– Departmental Life Committee, Member	2015
– Oral Comprehensive Exam, Standing Member	2013-2014
– Astrobiology Steering Committee, Member	2011-2015
– Recruitment Committee, Member	2011-2015

Other Committees (Internal or External):

– Science Organizing Committee, <i>Discs on the Exe</i> , Exeter, UK	2025
– Science Organizing Committee, <i>A sharper view: celebrating three years of JWST observations of planet-forming disks</i> , Ringberg Castle, Germany	2025
– JWST proposal panel reviewer	2023
– Member of NASA’s Astrophysics Advisory Committee	2022-2025
– Chair of NASA’s ExoPAG Executive Committee	2022-2025
– External expert for tenure reviews	2019-2025
– Ph.D. Reading Committee for international students in Italy and The Netherlands	2017-2025
– Scientific advisory committee for the Protostars and Planets VII conference	2019-2023
– Science Organizing Committee, <i>Computational Astrophysics in the ngVLA Era</i> , NY	2021
– NASA Study Analysis Group #22, <i>A Target Star Archive for Exoplanet Science</i>	2020-2021
– Reviewer for the Alfred P. Sloan Foundation, <i>Call-For-Ideas</i> Proposal Call	2020
– STDT member, NASA/LUVOIR	2016-2020
– Science Organizing Committee, Ringberg Workshop on Planet Formation	2019
– 229th Meeting of the AAS, Session Chair, <i>Planets and Planetesimals in Circumstellar disks</i>	2017
– Science Organizing Committee, Habitable Worlds	2017
– Reviewer for CONICYT, ALMA funds for the development of Chilean Astronomy	2017
– ALMA and HST proposal panel reviewer	2011, 2013, 2014
– External reviewer for the European Research Council <i>Ideas Specific Programme</i>	2011
– Referee for the Astrophysical Journal, the Astronomical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Nature, Science, and Space Science Reviews	

Local/State Outreach:

– Presentation at the University of Arizona Astronomy Club	2025
– Science Friday, radio interview	2024
– Jump in Tucson! (KVOI.com), radio show interview	2024
– AZPM news, radio interview	2024
– Interview for the Flandrau exhibit <i>Universe of Science</i>	2023
– Lecture on planet formation for the P.E.O. International Sisterhood, SaddleBrooke	2022
– <i>Revealing Planetary Systems in the Making with ALMA and NASA’s Webb Telescope</i> , LPL Public Lecture Series	2022
– <i>Looking Forward to JWST: Protoplanetary disks</i> , Steward Observatory Public Lecture Series	2022

- *Imagine Alien Earths*, workshop for K-12 teachers in collaboration with Pima County 2019
- *The Search for Life Beyond Earth*, Community Share Program, 4th graders, Tucson 2017
- *The Formation of Earth and Habitable Planets*, Tucson 2014
- Lecture and hands-on activity for the Osher Lifelong Learning Institute
- Speaker at the Science Day, Sunrise Drive Elementary School, Tucson 2014
- Interview on Planet Formation for the on-line class “Astronomy: State-of-the-Art” 2013
- *Where Did All Earth’s Water Come From?*, LPL Public Lecture Series 2012

National/International Outreach:

- *Revealing the lives of planet-forming disks*, press release, ALMA Large Program AGE-PRO 2025
- *Combination of cosmic processes shapes the size and location of sub-Neptunes*, press release 2025
- *JWST reveals planet-forming disks can last longer than previously thought*, press release 2025
- Interview for Scientific American 2025] – *Winds of change: Webb Telescope reveals elusive details in young star systems*, press release 2024
- *Winds of change*: Interview for Science Vega – today’s science for tomorrow’s scientists 2024
- *Webb Telescope finds plethora of carbon molecules around young star*, press release 2024
- *James Webb Space Telescope captures the end of planet formation*, press release 2024
- *Oltre la Terra: Alla Ricerca di Pianeti Abitabili*, public lecture, Pesaro, Italy 2024
- Interview for the article *The physics of accretion*, Astronomy magazine 2022
- *Unknown Treasure Trove of Planets Found Hiding in Dust*, press release 2018
- Invited speaker in *Il Bello di Unicam*, Italy, to promote science and research 2018
- *Planet-Forming disks May Resemble Solar System 5 Billion Years Ago*, press release 2018
- *Our old, vast, expanding Universe*, talk for 5th graders, Heidelberg International School 2017
- *Got Planets? Smaller Stars Are Best Bet*, press release 2016
- *A Caccia di Terre Gemelle*, guest speaker in Futura Festival, Italy 2014
- A yearly event with public talks from scientists, philosophers, and writers
- Academic Minute, Northeast Public Radio *Rules of Planetary Placement* 2012

ADVISING

Postdoctoral Research Fellows

- Dr. Feng Long, NASA Sagan Postdoctoral Fellow, now faculty at Peking University 2022-2025
- Dr. Kamber Schwarz, NASA Sagan Postdoctoral Fellow, now faculty at U. Georgia 2018-2021
- Dr. Min Fang, now Faculty at the Purple Mountain Observatory, Chinese Academy of Sciences 2017-2019
- Dr. Andrea Banzatti, now Associate Professor at Texas State 2016-2019
- Dr. Gijs Mulders, now Assistant Professor at Pontificia Universidad Católica in Santiago de Chile 2013-2018
- Dr. Elisabetta Rigliaco, now Astronomer at INAF, Padua 2011-2014

Graduate Students

- Sophie Clark, physical mechanisms driving protoplanetary disk evolution 2025-pres.
- Kiki Gonglewski, exoplanet demographics 2024-2025
- Genevieve Kuo, chemistry in disks around very low-mass stars 2023-2024
- Naman Bajaj, disk winds and their impact on planet formation 2022-pres.
- Chengyan Xie, disk volatile inventory during planet assembly 2022-pres.
- Dingshan Deng, gas evolution in planet-forming disks, recipient of the Drake Fellowship 2020-pres.
- Galen Bergsten, Ph.D. in Planetary Sciences, now Exoplanet Fellow at the STScI 2019-2025
- Title: *Modeling Exoplanet Demographics Across Detection Methods*
- Rachel Fernandes, Ph.D. in Planetary Sciences, now Presidential Fellow at Penn State 2017-2023
- Title: *Exoplanets Beyond Kepler: Giant Planets detected with Radial Velocity & Young Transiting Planets with TESS*

- Nathan Hendler, Ph.D. in Planetary Sciences, now Senior Machine Learning Engineer at FlightAware 2015-2020
Title: *Evolution of Protoplanetary Dust-disk Sizes*
- Molly Simon, M.S. in Planetary Sciences, now Assistant Professor at ASU 2013-2015
Title: *Understanding Protoplanetary disk Winds via Low Velocity Forbidden Line Emission*

Undergraduate Students

I have involved over 20 undergraduate students in research and tailored projects to align with their science background and interest. Below, I provide representative examples:

- Jose Santiago Campa Morales, contributor to a multi-instrument IFU Analyzer 2025-pres.
- Manoj Sai Annapareddy, contributor to a multi-instrument IFU Analyzer 2025-pres.
- Bennett N. Skinner, Honors Thesis, now Ph.D. student at McMaster University 2022-2023
Title: *Survey of Atomic Carbon in Large Lupus disks*
- Mackenzie James, Honors Thesis, now scientist at Los Alamos National Laboratory 2019-2020
Title: *Modeling Infrared Water Lines in Spitzer Spectra*
- Robert Latka, M.S. in Astronomy in collaboration with the University of Heidelberg 2018-2020
Title: *Modeling of Dust Growth and Drift to Explain Observed disk Masses and Sizes*
- Parker Kaufmann, honors project as part of the PTYS-214 Astrobiology class Fall 2018
Used the Gaia archive to test if disk properties depend on their location and motion within a cluster
- Sophie Barshay, honors project as part of the PTYS-214 Astrobiology class Spring 2017
Eyes on the Earth: average temperature, CO₂, water, and ice content in the next 10 years
- Jennifer Thornton, honors project as part of the PTYS-214 Astrobiology class Spring 2015
Kepler planetary systems in the context of our Solar System
- Nathan Hendler, summer and fall research project, now postdoc at the University of Arizona 2013-2014
Used ATCA data to calculate upper limits on the EUV luminosity reaching the disk surface
- Judit Szulágyi, M.S. in Astronomy in collaboration with the Konkoly Observatory, now ETH Professor 2010-2012
Title: *Observational Constraints on the Stellar Radiation Field Impinging on Transitional disk Atmospheres*

TEACHING

– PTYS-510B: Chemistry of the Solar System

3 credits: Spring 2019, 2021, 2023

This is one of the core classes for the Planetary Sciences graduate program at the University of Arizona. Building on quantum mechanics, the course focuses on using atomic and molecular spectroscopy to characterize planetary and astrophysical environments.

– ASTR- PTYS-450/550: The Origin of the Solar System and Other Planetary Systems

3 credits: Fall 2013, 2015, 2019, 2021, 2023 and Spring 2025

I developed this class as a core course for the Undergraduate and Graduate Astrobiology Minor degree at the University of Arizona. The course reviews the main processes and stages that lead to the formation of planets and confront theoretical models with observations of planet-forming disks, exoplanets, and the planets and minor bodies in our Solar System.

– ASTR- GEOS- PTYS-214: Astrobiology: A Planetary Perspective

3 credits: Fall 2012, 2016, 2018 and Spring 2013, 2015, 2017

This 200-level general education course provides an introduction to astrobiology and discusses possible habitable environments within the Solar System. Focus is placed on the scientific method and the grand themes in sciences, including cosmic and geological times, natural selection and evolution.

OBSERVING PROPOSALS

I have written successful proposals and acquired data from:

- Hubble Space Telescope, ESO Very Large Telescopes, Keck, Gemini South, Magellan [*optical and near-infrared wavelengths*]
- James Webb Space Telescope (5 as PI with 2 being medium-size), *Spitzer* Space Telescope, Herschel Space Observatory [*mid- and far-infrared wavelengths*]
- Atacama Large Millimeter Array (including a large program that was allocated ~ 100 hours), IRAM 30-m telescope, James Clerk Maxwell Telescope, Submillimeter Array Telescope, Australia Telescope Compact Array [*millimeter and centimeter wavelengths*]

In addition, I contributed to the development of the following mission proposals:

- *FIRSST*: Far Infrared Spectroscopy Space Telescope, for the 2023 Astrophysics Probe Explorer NASA Opportunity
- *Hyperion*: Origin of the Stars (far-UV spectroscopy), for the NASA Astrophysics Explorers Program 2021, Medium Explorer, not selected
- *LUVOIR*: Large UV/Optical/IR Surveyor, for the 2020 Decadal Survey on Astronomy and Astrophysics, its design has been recommended by the Decadal Committee

CONFERENCES/SCHOLARLY PRESENTATIONS (LIMITED TO 2017-2026)

Colloquia

1. Department of Astronomy, University of California, Berkeley *September 2025*
Bridging the Gap: Linking Disk Observations to Exoplanet Demographics
2. Lunar and Planetary Laboratory, Tucson *January 2025*
Disk Evolution and Volatile Transport in the Era of ALMA and JWST
3. Astronomy & Astrophysics Dep., University of British Columbia *January 2025*
Bridging the Gap: Linking Disk Observations to Exoplanet Demographics
4. Department of Astronomy, Yale University *November 2024*
Linking Disk Observations and Exoplanet Demographics to Uncover Planet Formation
5. Blitzer award lecture, LPL *May 2024*
From Planet-forming Disks to Exoplanets: Reconstructing the Paths to Habitable Worlds
6. NASA Jet Propulsion Laboratory, Pasadena *May 2023*
Unraveling the Mysteries of Planet Formation via disk Observations and Exoplanet Demographics
7. Max Planck Institute for Astronomy, Heidelberg, Germany *June 2022*
From Planet-forming disks to Exoplanets: Reconstructing the Paths to Habitable Worlds
8. NASA Jet Propulsion Laboratory, virtual *Sept 2021*
Winds Launched from Protostellar disks and their Impact on Planet Formation
9. Lunar and Planetary Laboratory, Tucson *May 2021*
The Evolution of disk Winds and their Impact on Planet Formation
10. Leibniz Institute for Astrophysics, Potsdam, Germany *Sept 2019*
Angular Momentum Transport in Protoplanetary disks
11. University of Bern, Switzerland *July 2019*
Scaling Laws in disks and Exoplanets: Testing Planet Formation Models

12. University of Bologna, Italy Feb 2018
Scaling Laws in disks and Exoplanets: Testing Planet Formation Theories
13. University of Groeningen, the Netherlands Jan 2018
Scaling Laws in disks and Exoplanets: Testing Planet Formation Theories
14. University of Leicester, United Kingdom Dec 2017
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
15. MPA, Heidelberg, Germany Nov 2017
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
16. University of Michigan, Ann Arbor Oct 2017
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
17. Ludwig Maximilian University of Munich, Germany June 2017
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets
18. ETH, Zurich, Switzerland March 2017
The Origins of Habitable Planetary Systems: Constraints from Disks and Exoplanets

Conferences

1. **Invited review talk**, “Debris Disk Connections workshop”, Cambridge, UK July 2026
The Evolution and Dispersal of Protoplanetary Disks and the Emergence of Debris Disks
2. **Contributed talk**, “Workshop on Planets Around M-Dwarfs”, Lund, Sweden February 2026
Inside the Snowline: What Infrared Spectra Reveal About Disks Around Young TRAPPIST-1 analogues
3. **Invited review talk**, “International Conference on Exoplanets and Planet Formation”, Shanghai
unable to attend due to university approval restrictions December 2025
The Frequency of Earth-size Planets in the Habitable Zone
4. **Contributed talk**, “The Solar System in Context”, Tucson September 2025
Gas and Dust Disk Evolution in Young Solar Analogues: Clues to the Solar System’s Past
5. **Invited review talk**, “Sagan Summer Workshop”, Pasadena July 2025
Exoplanet Demographics across Stellar Mass and Time
6. **Invited Discussion Leader**, “Constraints on Planet Formation from Theory, Observations, and Meteoritics”, Mount Holyoke College July 2025
Water Transport in Disks
7. **Contributed talk**, AAS meeting #245, Washington DC January 2025
JWST/NIRSpec reveals the nested morphology of disk winds
8. **Invited review talk**, “New Heights in Planet Formation”, Munich, Germany July 2024
Spectroscopy with JWST: the beginning of a new era for the field of planet-forming disks
9. **Invited talk**, “From Star to Planet Formation”, Villa Vigoni, Italy March 2024
The Role of Disk Winds in the Evolution and Dispersal of Protoplanetary Disks
10. **Invited talk**, AAS Session “Beyond JWST and ALMA: Far-infrared Spectroscopy of Cosmic Ecosystems”, Seattle Jan 2023
Planetary Systems in Formation: Current Understanding and Future Prospects
11. **Invited talk**, AAS Session “Multi-Faceted Views of Planet Formation III: Insights into planet formation and properties from proto-planetary disks” June 2022
Testing Planet Formation Mechanisms via Protoplanetary disk Observations and Exoplanet Demographics

12. **Contributed talk**, NASA Alien Earths, All-hands Meeting, Tucson *Jan 2022*
Testing the emerging pebble accretion scenario with JWST/MIRI spectroscopy
13. **Contributed talk**, Habitable Worlds *Feb 2021*
Observational constraints for pebble-driven planet formation
14. **Contributed talk**, AAS Meeting #237 *Jan 2021*
The Evolution of Disk Winds from a Combined Study of Optical and Infrared Forbidden Lines
15. **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
16. **Invited review talk**, international conference “Five Years after HLTau”, ESO *Dec 2020*
The Demographics of Planet-forming disks.
17. **Contributed talk**, “Exoplanet Demographics” conference, NExScI *Nov 2020*
A Universal Break in the Planet-to-star Mass Ratio: Implications for Planets around Brown Dwarfs
18. **Invited talk**, German Research Foundation, Research Unit Transition disks *Oct 2020*
The Evolution of Disk Winds
19. **Invited review talk**, Ringberg workshop on planet formation, Germany *Sept 2019*
Mass loss rates and MHD-driven disk winds: An Observational Perspective
20. **Contributed talk**, NASA EOS, All-hands Meeting, Tucson *Sept 2019*
The LUVUOIR Mission Concept Study
21. **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
22. **Invited review talk**, Ringberg workshop on protoplanetary disks, Germany *July 2019*
Mass loss rates and MHD-driven disk winds: An Observational Perspective
23. **Contributed talk**, LUVUOIR STDT meeting, Baltimore *July 2019*
Signature Science case: how in what environments do planets form?
24. **Contributed talk**, AAS Meeting #233, Seattle *Jan 2019*
Mass loss rates and MHD-driven disk winds traced by optical forbidden lines
25. **Invited talk**, WFIRST special session, AAS Meeting #233, Seattle *Jan 2019*
Exoplanet Populations beyond Kepler
26. **Contributed talk**, NASA EOS, All-hands Meeting, Tucson *Aug 2018*
Team 2: Results, Challenges, Connections
27. **Invited review talk**, COSPAR2018 international conference, Pasadena *July 2018*
The Evolution and Dispersal of Planet-forming disks
28. **Invited review talk**, Star and Planet Formation 2 meeting, Biosphere2, AZ *March 2018*
ALMA surveys of planet-forming disks
29. **Contributed talk**, workshop on planet formation, Milan, Italy *Dec 2017*
Scaling Laws in disks and Exoplanets
30. **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

31. **Invited review talk**, “Planet Formation and Evolution”, Jena, Germany *Sept 2017*
The Evolution and Dispersal of Planet-forming disks
32. **Invited Talk**, MIAPP Programme “Protoplanetary disks and Planet Formation and Evolution”, ESO, Munich, Germany *June 2017*
Angular Momentum Transport in Protoplanetary disks
33. **Contributed talk**, AbSciCon, Phoenix *April 2017*
Earths in Other Solar Systems: Fundamental disk Properties and their Evolution
34. **Invited review talk**, Kavli Institute for Theoretical Physics for the program entitled: “Confronting MHD Theories of Accretion disks with Observations”, Santa Barbara *March 2017*
Angular Momentum Transport in Protoplanetary disks: Constraints from disk observations
35. **Contributed talk**, AAS Meeting #229, Grapevine, Texas *Jan 2017*
A Steeper than Linear disk Mass-Stellar Mass Scaling Relation

Symposia

1. **Invited talk**, Symposium in honor of Prof. Th. Henning, Heidelberg, Germany *June 2026*
Big Stars, Small Worlds, and Lasting Lessons
2. **Invited review talk**, Symposium in honor of Prof. T. Ray, Ireland *Sept 2024*
Close to the Cradle: Observing Winds and Jets from Young Stars Near Their Disks
3. **Invited review talk**, Origins of Life Symposium, Chicago *May 2024*
From Planet-forming Disks to Exoplanets: Reconstructing the Paths to Habitable Worlds
4. **Invited review talk**, Symposium in honor of Dr. A. Natta, lake Como, Italy *March 2019*
The Demographics of Planet-forming disks
5. **Invited talk**, Kavli ExoFrontiers Symposium, Cambridge, United Kingdom *July 2017*
disk Dispersal: Impact on Planet Formation and Planetary Atmospheres

Seminars

1. STScI Exoplanets seminar series, Baltimore *May 2026*
Inside the Snowline: What Infrared Spectra Reveal About Disks Around Young TRAPPIST-1-like stars
2. MIT Earth, Atmospheric & Planetary Sciences Lunch series, Boston *April 2026*
Inside the Snowline: What Infrared Spectra Reveal About Disks Around Young TRAPPIST-1-like stars
3. CfA/Harvard & Smithsonian Solar, Stellar & Planetary Sciences series, Boston *April 2026*
Disk Evolution and Volatile Transport in the Era of ALMA and JWST
4. Origins Seminar Series, Tucson *Nov 2025*
Protoplanetary Disk Evolution in the ALMA–JWST Era
5. University of Bologna, Italy *Jun 2024*
Constraining Planet Formation via Disk Observations and Exoplanet Demographics
6. Space Telescope Science Institute, Baltimore *Oct 2022*
Testing Planet Formation Pathways via Disk Observations and Exoplanet Demographics
7. Origins Seminar Series, virtual *Sept 2020*
The Evolution of Disk Winds and their Impact on Planet Formation
8. Steward Observatory Seminar Series, Tucson *March 2019*
The LUVOIR Mission Concept Study

9. Virtual seminar series organized by NASA/Goddard Sept 2018
Exoplanet Populations beyond Kepler
10. University of Zurich, Switzerland June 2018
Scaling Laws in Disks and Exoplanets: Testing Planet Formation Theories
11. Dublin Institute for Advanced Studies, Ireland Nov 2017
Angular Momentum Transport in Protoplanetary Disks
12. MPA, Heidelberg, Germany Sept 2017
Angular Momentum Transport in Protoplanetary Disks: Re-distribute or Extract?
13. Origins Seminar Series, Tucson May 2017
The Evolution of the Dust disk-Stellar Mass Scaling Relation

PUBLICATIONS/CREATIVE ACTIVITY (PUBLISHED OR ACCEPTED IN CHRONOLOGICAL ORDER)

+**215** total refereed publications, citation counts **13,770+**, H-index=**69** (based on NASA ADS)

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 2023, Protostars and Planets VII, Shu-ichiro Inutsuka, Yuri Aikawa, Takayuki Muto, Kengo Tomida, and Motohide Tamura (eds.), Astronomical Society of the Pacific Conference Series, Vol. 534, p.567. *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. Deng, D., Gorti, U., **Pascucci, I.**, M. Ruaud 2026, ApJ, 1006, 136. *DiskMINT-GARDEN: Self-consistent Models to Estimate Disk Masses*
2. Yao, J., Zhang, K., Banzatti, A. (**Pascucci, I.** 5th author) et al. 2026, ApJ, 1005, 70. *Molecular Similarity and Water Diversity in Coeval Binary Disks: JWST/MIRI Observations of Sz 65 and Sz 66*
3. Luo, L., Pinilla, P., Pulgarés, C. (**Pascucci, I.** 14th author) et al. 2026, MNRAS, 548, stag423. *The ALMA Survey of Gas Evolution of PROtoplanetary discs (AGE-PRO): constraints on disc turbulence, fragmentation velocity, and inner pebble fluxes*

4. Narang, M., Pontoppidan, K. M., Salyk, C. (**Pascucci, I.** 8th author) et al. 2026, ApJ, 1004, 188. *Characterizing the Extended Molecular Hydrogen Winds in Protoplanetary Disks from the JWST Disk Infrared Spectroscopic Chemistry Survey*
5. Liu, Y., **Pascucci, I.**, Gao, F. et al. 2026, ApJ, 1004, 162. *Evidence for Systematically Larger Dust Grains in Upper Scorpius Relative to Taurus Disks*
6. Colmenares, M. J., Bergin, E. A., Zhang, K. (**Pascucci, I.** 14th author) et al. 2026, ApJ, 1002, 176. *JWST/MIRI Hydrocarbon and Water Absorption in the Wind of a Young Disk: Signatures of Pebble Drift and Carbon Grain Sublimation*
7. Souto, D., **Pascucci, I.**, Cunha, K., Kanodia, S. 2026, ApJL, 1001, L28. *A Chemical Mismatch between Young Stars and Their Inner Disks*
8. Shi, Y., Long, F., Macías, E. (**Pascucci, I.** 11th author) et al. 2026, ApJ, 1001, 27. *Probing Dust in the MWC 480 Disk from Millimeter to Centimeter Wavelengths*
9. Mallaney, P., Banzatti, A., Salyk, C. (**Pascucci, I.** 4th author) et al. 2026, ApJ, 998, 255. *Protoplanetary Disk Cavities with JWST-MIRI: A Dichotomy in Molecular Emission*
10. Perotti, G., Kurtovic, N. T., Henning, T. (**Pascucci, I.** 10th author) et al. 2026, ApJ, 997, 281. *MINDS. Anatomy of a Water-rich, Inclined, Brown Dwarf Disk: Lack of Abundant Hydrocarbons*
11. Bergsten, G. J., Ciardi, D. R., Christiansen, J. L. (**Pascucci, I.** 5th author) et al. 2026, AJ, 171, 110. *Modeling the Impact of Unresolved Stellar Companions on Detection Sensitivity in Kepler’s Small-planet Occurrence Rates*
12. Gonglewski, K. L., Bergsten, G. J., **Pascucci, I.** et al. 2025, RNAAS, 9, 356. *No Turnover Found in Giant-Planet Occurrence Within 3 au Around Low-mass Stars*
13. Bryson, S., Kunimoto, M., Belikov, R. (**Pascucci, I.** 15th author) et al. 2025, PASP, 137, 124401. *Why Estimating $\eta_{\oplus}$ is Difficult: A Kepler-Centric Perspective*
14. Fernandes, R. B., Johnson, S., Bergsten, G. J., (**Pascucci, I.** 43rd author) et al. 2025, PASP, 137, 121001. *Are We There Yet? Challenges in Quantifying the Frequency of Earth Analogs in the Habitable Zone*
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