Tilman Birnstiel — Curriculum Vitae

Contact Information

Ludwig-Maximilians-Universität München
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Positions

Professor for Theoretical Astrophysics 02/2017 – now
at the Ludwig-Maximilians-Universität München, Germany

Postdoctoral Researcher 09/2015 – 01/2017
at the Max-Planck-Institute for Astronomy, Heidelberg, Germany
Advisor: *PD Dr. Hubert Klahr*

Research Associate 09/2015 – now
at the Harvard-Smithsonian Center for Astrophysics
Cambridge, MA, USA

Postdoctoral Fellow 01/2013 – 08/2015
at the Harvard-Smithsonian Center for Astrophysics
Cambridge, MA, USA
Advisor: *Dr. Sean M. Andrews*

Postdoctoral Researcher 07/2011 – 12/2012
at the Excellence Cluster 'Universe', Garching, Germany
and at the University Observatory, LMU, Munich, Germany
Advisor: *Prof. Dr. Barbara Ercolano*

Postdoctoral Researcher 10/2010 – 06/2011
at the Max-Planck-Institute for Astronomy, Heidelberg, Germany
Advisor: *Prof. Dr. Cornelis P. Dullemond*

Studies

Ph.D. Astronomy 09/2007–10/2010
University of Heidelberg & Max-Planck-Institute for Astronomy, Germany
Thesis: *The Evolution of Gas and Dust in Protoplanetary Accretion Disks*
Advisor: *Prof. Dr. Cornelis P. Dullemond*
Grade: *1.0, magna cum laude*

M.S. Physics 08/2006 – 08/2007
State University of New York at Albany, USA
Scholarship from the international office of the University of Würzburg
Thesis: *Bayesian Estimation of the Diffusion Tensor*
Advisor: *Prof. Dr. Kevin H. Knuth*
GPA: *4 of 4*

Graduate studies in physics 10/2005 – 07/2006
Julius-Maximilians-Universität, Würzburg, Germany

Vordiplom in physics 08/2005
Julius-Maximilians-Universität, Würzburg, Germany
Major: *physics*
Minor: *mathematics & chemistry*

Undergraduate studies 10/2003 – 09/2005
Julius-Maximilians-Universität, Würzburg, Germany

Community Service

Civilian Service 09/2002 – 09/2003
Roland Eller environmental center, Hobbach, Germany
conducted volunteering work via a "Freiwilliges Ökologisches Jahr"

Schooling

High School / Abitur 09/1993 – 08/2002
general qualification for university entrance
Hermann-Staudinger-Gymnasium
Erlenbach am Main, Germany

Elementary School 09/1989 – 08/1993
Johannes Obernburger Grundschule
Obernburg am Main, Germany

Research Interests

growth and transport of solids in protoplanetary disks; laboratory studies related to planet formation; meteoritics; structure and evolution of protoplanetary disks; astrophysics and astrochemistry of planet formation; connection to ALMA and SMA observations; Bayesian data analysis and MCMC methods; high performance computing;

Refereed Publications

62. Tripathi, Andrews, **Birnstiel**, Chandler, Isella, Pérez, Harris, Ricci, Wilner, Carpenter, Calvet, Corder, Deller, Dullemond, Greaves, Henning, Kwon, Lazio, Linz, and Testi: *The Millimeter Continuum Size–Frequency Relationship in the UZ Tau E Disk*, ApJ (2018), vol. 861, 64.

61. Teague, Bae, Bergin, **Birnstiel**, and Foreman-Mackey: *A Kinematical Detection of Two Embedded Jupiter-mass Planets in HD 163296*, ApJ (2018), vol. 860, L12.

60. Hu, Tan, Zhu, Chatterjee, **Birnstiel**, Youdin, and Mohanty: *Inside-out Planet Formation. IV. Pebble Evolution and Planet Formation Timescales*, ApJ (2018), vol. 857, 20.

59. Huang, Andrews, Cleeves, Öberg, Wilner, Bai, **Birnstiel**, Carpenter, Hughes, Isella, Pérez, Ricci, and Zhu: *CO and Dust Properties in the TW Hya Disk from High-resolution ALMA Observations*, ApJ (2018), vol. 852, 122.

58. Ercolano, Jennings, Rosotti, and **Birnstiel**: *X-ray photoevaporation's limited success in the formation of planetesimals by the streaming instability*, MNRAS (2017), vol. 472, 4117.

57. Liu, Henning, Carrasco-González, Chandler, Linz, **Birnstiel**, van Boekel, Pérez, Flock, Testi, Rodríguez, and Galván-Madrid: *The properties of the inner disk around HL Tau: Multi-wavelength modeling of the dust emission*, A&A (2017), vol. 607, A74.

56. Pohl, Benisty, Pinilla, Ginski, de Boer, Avenhaus, Henning, Zurlo, Boccaletti, Augereau, **Birnstiel**, Dominik, Facchini, Fedele, Janson, Keppler, Kral, Langlois, Ligi, Maire,

Ménard, Meyer, Pinte, Quanz, Sauvage, Sezestre, Stolker, Szulágyi, van Boekel, van der Plas, Villenave, Baruffolo, Baudoz, Le Mignant, Maurel, Ramos, and Weber: *The Circumstellar Disk HD 169142: Gas, Dust, and Planets Acting in Concert?*, ApJ (2017), vol. 850, 52.

55. Ricci, Rome, Pinilla, Facchini, **Birnstiel**, and Testi: *VLA Observations of the Disk around the Young Brown Dwarf 2MASS J044427+2512*, ApJ (2017), vol. 846, 19.

54. Facchini, **Birnstiel**, Bruderer, and van Dishoeck: *Different dust and gas radial extents in protoplanetary disks: consistent models of grain growth and CO emission*, A&A (2017), vol. 605, A16.

53. Pinilla, Quiroga-Nuñez, Benisty, Natta, Ricci, Henning, van der Plas, **Birnstiel**, Testi, and Ward-Duong: *Millimeter Spectral Indices and Dust Trapping By Planets in Brown Dwarf Disks*, ApJ (2017), vol. 846, 70.

52. Cridland, Pudritz, **Birnstiel**, Cleeves, and Bergin: *Composition of early planetary atmospheres - II. Coupled Dust and chemical evolution in protoplanetary discs*, MNRAS (2017), vol. 469, 3910.

51. Tripathi, Andrews, **Birnstiel**, and Wilner: *A millimeter Continuum Size-Luminosity Relationship for Protoplanetary Disks*, ApJ (2017), vol. 845, 44.

50. Pinilla, Pohl, Stammler, and **Birnstiel**: *Dust Density Distribution and Imaging Analysis of Different Ice Lines in Protoplanetary Disks*, ApJ (2017), vol. 845, 68.

49. Pinilla, Pérez, Andrews, van der Marel, van Dishoeck, Ataiee, Benisty, **Birnstiel**, Juhász, Natta, Ricci, and Testi: *A Multi-wavelength Analysis of Dust and Gas in the SR 24S Transition Disk*, ApJ (2017), vol. 839, 99.

48. Stammler, **Birnstiel**, Panić, Dullemond, and Dominik: *Redistribution of CO at the location of the CO ice line in evolving gas and dust disks*, A&A (2017), vol. 600, A140.

47. Cridland, Pudritz, and **Birnstiel**: *Radial drift of dust in protoplanetary discs: the evolution of ice lines and dead zones*, MNRAS (2017), vol. 465, 3865.

46. Cazzoletti, Ricci, **Birnstiel**, and Lodato: *Testing dust trapping in the circumbinary disk around GG Tauri A*, A&A (2017), vol. 599, A102.

45. Teague, Semenov, Gorti, Guilloteau, Henning, **Birnstiel**, Dutrey, van Boekel, and Chapillon: *A Surface Density Perturbation in the TW Hydrae Disk at 95 au Traced by Molecular Emission*, ApJ (2017), vol. 835, 228.

44. Pinilla, Flock, Ovelar, and **Birnstiel**: *Can dead zones create structures like a transition disk?*, A&A (2016), vol. 596, A81.

43. **Birnstiel**, Fang, and Johansen: *Dust Evolution and the Formation of Planetesimals*, Space Sci. Rev. (2016), vol. 205, 41.

42. Pohl, Kataoka, Pinilla, Dullemond, Henning, and **Birnstiel**: *Investigating dust trapping in transition disks with millimeter-wave polarization*, A&A (2016), vol. 593, A12.

41. Teague, Guilloteau, Semenov, Henning, Dutrey, Piétu, **Birnstiel**, Chapillon, Hollenbach, and Gorti: *Measuring turbulence in TW Hydrae with ALMA: methods and limitations*, A&A (2016), vol. 592, A49.

40. de Juan Ovelar, Pinilla, Min, Dominik, and **Birnstiel**: *Constraining turbulence mixing strength in transitional discs with planets using SPHERE and ALMA*, MNRAS (2016), vol. 459, L85.

39. Andrews, Wilner, Zhu, **Birnstiel**, Carpenter, Pérez, Bai, Öberg, Hughes, Isella, and Ricci: *Ringed Substructure and a Gap at 1 au in the Nearest Protoplanetary Disk*, ApJ (2016), vol. 820, L40.

38. Carrasco-González, Henning, Chandler, Linz, Pérez, Rodríguez, Galván-Madrid, Anglada, **Birnstiel**, van Boekel, Flock, Klahr, Macias, Menten, Osorio, Testi, Torrelles, and Zhu: *The VLA View of the HL Tau Disk: Disk Mass, Grain Evolution, and Early Planet Formation*, ApJ (2016), vol. 821, L16.

37. Guilloteau, Piétu, Chapillon, Di Folco, Dutrey, Henning, Semenov, **Birnstiel**, and Grosso: *The shadow of the Flying Saucer: A very low temperature for large dust grains*, A&A (2016), vol. 586, L1.

36. Pinilla, Klarmann, **Birnstiel**, Benisty, Dominik, and Dullemond: *A tunnel and a traffic jam: How transition disks maintain a detectable warm dust component despite the presence of a large planet-carved gap*, A&A (2016), vol. 585, A35.

35. Pinilla, van der Marel, Pérez, van Dishoeck, Andrews, **Birnstiel**, Herczeg, Pontoppidan, and van Kempen: *Testing particle trapping in transition disks with ALMA*, A&A (2015), vol. 584, A16.

34. Banzatti, Pinilla, Ricci, Pontoppidan, **Birnstiel**, and Ciesla: *Direct Imaging of the Water Snow Line at the Time of Planet Formation using Two ALMA Continuum Bands*, ApJ (2015), vol. 815, L15.

33. Pinilla, de Boer, Benisty, Juhász, de Juan Ovelar, Dominik, Avenhaus, **Birnstiel**, Girard, Huelamo, Isella, and Milli: *Variability and dust filtration in the transition disk J160421.7-213028 observed in optical scattered light*, A&A (2015), vol. 584, L4.

32. Piso, Öberg, **Birnstiel**, and Murray-Clay: *C/O and Snowline Locations in Protoplanetary Disks: The Effect of Radial Drift and Viscous Gas Accretion*, ApJ (2015), vol. 815, 109.

31. **Birnstiel**, Andrews, Pinilla, and Kama: *Dust Evolution Can Produce Scattered Light Gaps in Protoplanetary Disks*, ApJ (2015), vol. 813, L14.

30. van der Marel, Pinilla, Tobin, van Kempen, Andrews, Ricci, and **Birnstiel**: *A Concentration of Centimeter-sized Grains in the Ophiuchus IRS 48 Dust Trap*, ApJ (2015), vol. 810, L7.

29. Pinilla, **Birnstiel**, and Walsh: *Sequential planet formation in the HD 100546 protoplanetary disk?*, A&A (2015), vol. 580, A105.

28. Benisty, Juhasz, Boccaletti, Avenhaus, Milli, Thalmann, Dominik, Pinilla, Buenzli, Pohl, Beuzit, **Birnstiel**, de Boer, Bonnefoy, Chauvin, Christiaens, Garufi, Grady, Henning, Huelamo, Isella, Langlois, Ménard, Mouillet, Olofsson, Pantin, Pinte, and Pueyo: *Asymmetric features in the protoplanetary disk MWC 758*, A&A (2015), vol. 578, L6.

27. Sicilia-Aguilar, Roccatagliata, Getman, Rivière-Marichalar, **Birnstiel**, Merín, Fang, Henning, Eiroa, and Currie: *The Herschel/PACS view of the Cep OB2 region: Global protoplanetary disk evolution and clumpy star formation*, A&A (2015), vol. 573, A19.

26. Pinilla, de Juan Ovelar, Ataiee, Benisty, **Birnstiel**, van Dishoeck, and Min: *Gas and dust structures in protoplanetary disks hosting multiple planets*, A&A (2015), vol. 573, A9.

25. Walsh, Juhász, Pinilla, Harsono, Mathews, Dent, Hogerheijde, **Birnstiel**, Meeus, Nomura, Aikawa, Millar, and Sandell: *ALMA Hints at the Presence of two Companions in the Disk around HD 100546*, ApJ (2014), vol. 791, L6.

24. Andrews, Chandler, Isella, **Birnstiel**, Rosenfeld, Wilner, Pérez, Ricci, Carpenter, Calvet, Corder, Deller, Dullemond, Greaves, Harris, Henning, Kwon, Lazio, Linz, Mundy, Sargent, Storm, and Testi: *Resolved Multifrequency Radio Observations of GG Tau*, ApJ (2014), vol. 787, 148.

23. Pinilla, Benisty, **Birnstiel**, Ricci, Isella, Natta, Dullemond, Quiroga-Nuñez, Henning, and Testi: *Millimetre spectral indices of transition disks and their relation to the cavity radius*, A&A (2014), vol. 564, A51.

22. Testi, **Birnstiel**, Ricci, Andrews, Blum, Carpenter, Dominik, Isella, Natta, Williams, and Wilner: *Dust Evolution in Protoplanetary Disks*, PPVI (2014).

21. **Birnstiel** and Andrews: *On the Outer Edges of Protoplanetary Dust Disks*, ApJ (2014), vol. 780, 153.

20. de Juan Ovelar, Min, Dominik, Thalmann, Pinilla, Benisty, and **Birnstiel**: *Imaging diagnostics for transitional discs*, A&A (2013), vol. 560, A111.

19. van der Marel, van Dishoeck, Bruderer, **Birnstiel**, Pinilla, Dullemond, van Kempen, Schmalzl, Brown, Herczeg, Mathews, and Geers: *A Major Asymmetric Dust Trap in a Transition Disk*, Science (2013), vol. 340, 1199.

18. Pinilla, **Birnstiel**, Benisty, Ricci, Natta, Dullemond, Dominik, and Testi: *Explaining millimeter-sized particles in brown dwarf disks*, A&A (2013), vol. 554, A95.

17. Akimkin, Zhukovska, Wiebe, Semenov, Pavlyuchenkov, Vasyunin, **Birnstiel**, and Henning: *Protoplanetary Disk Structure with Grain Evolution: The ANDES Model*, ApJ (2013), vol. 766, 8.

16. **Birnstiel**, Dullemond, and Pinilla: *Lopsided dust rings in transition disks*, A&A (2013), vol. 550, L8.

15. Windmark, **Birnstiel**, Ormel, and Dullemond: *Breaking through: the effects of a velocity distribution on barriers to dust growth (Corrigendum)*, A&A (2012), vol. 548, C1.

14. Pinilla, Benisty, and **Birnstiel**: *Ring shaped dust accumulation in transition disks*, A&A (2012), vol. 545, A81.

13. Windmark, **Birnstiel**, Ormel, and Dullemond: *Breaking through: The effects of a velocity distribution on barriers to dust growth*, A&A (2012), vol. 544, L16.

12. **Birnstiel**, Andrews, and Ercolano: *Can grain growth explain transition disks?*, A&A (2012), vol. 544, A79.

11. Windmark, **Birnstiel**, Güttler, Blum, Dullemond, and Henning: *Planetesimal formation by sweep-up: how the bouncing barrier can be beneficial to growth*, A&A (2012), vol. 540, A73.

10. **Birnstiel**, Klahr, and Ercolano: *A simple model for the evolution of the dust population in protoplanetary disks*, A&A (2012), vol. 539, A148.

9. Pinilla, **Birnstiel**, Ricci, Dullemond, Uribe, Testi, and Natta: *Trapping dust particles in the outer regions of protoplanetary disks*, A&A (2012), vol. 538, A114.

8. Andrews, Wilner, Hughes, Qi, Rosenfeld, Öberg, **Birnstiel**, Espaillat, Cieza, Williams, Lin, and Ho: *The TW Hya Disk at 870 μm: Comparison of CO and Dust Radial Structures*, ApJ (2012), vol. 744, 162.

7. Ricci, Testi, Williams, Mann, and **Birnstiel**: *The mm-colors of a Young Binary Disk System in the Orion Nebula Cluster*, ApJ (2011), vol. 739, L8.

6. **Birnstiel**: *The Evolution of Gas and Dust in Protoplanetary Accretion Disks*, PhD Thesis (2011).

5. Vasyunin, Wiebe, **Birnstiel**, Zhukovska, Henning, and Dullemond: *Impact of Grain Evolution on the Chemical Structure of Protoplanetary Disks*, ApJ (2011), vol. 727, 76.

4. **Birnstiel**, Ormel, and Dullemond: *Dust size distributions in coagulation/fragmentation equilibrium: numerical solutions and analytical fits*, A&A (2011), vol. 525, A11.

3. **Birnstiel**, Ricci, Trotta, Dullemond, Natta, Testi, Dominik, Henning, Ormel, and Zsom: *Testing the theory of grain growth and fragmentation by millimeter observations of protoplanetary disks*, A&A (2010), vol. 516, L14.

2. **Birnstiel**, Dullemond, and Brauer: *Gas- and dust evolution in protoplanetary disks*, A&A (2010), vol. 513, A79.

1. **Birnstiel**, Dullemond, and Brauer: *Dust retention in protoplanetary disks*, A&A (2009), vol. 503, L5.

Talks

Physics Colloquium	U. of Duisburg, GER	11/2017
StarPlan Seminar	Copenhagen, DEN	10/2017
PPD Gathering	LANL, USA	08/2017
ICS Colloquium, Univ. Zürich	Zürich, SWI	04/2017
Munich Physics Colloquium	Munich, GER	11/2016
Königstuhl Colloquium	Heidelberg, GER	11/2016
Missing links from disks to planets	Budapest, HUN	10/2016
GER-JPN Planet Formation Conference	Ishigaki, JPN	09/2016
Multiple Faces of Interstellar Dust	MPE, Garching, GER	09/2016
Linking Exoplanet and Disk Compositions	STSci, Baltimore, USA	09/2016
Origins of Habitable Planets	Univ. of Gothenburg, SWE	05/2016
Workshop on Young Solar Systems	Sant Cugat, ESP	04/2016
Early Earth Evolution	Cologne University, GER	04/2016
Institute Seminar	Arcetri Observatory, ITA	02/2016
Institute Seminar	Bordeaux, FRA	11/2015
Inv. talk: From clouds to PPDs	Berlin, GER	10/2015
Invited Review: IAU Symposium 314	Atlanta, USA	05/2015
Astrophysics Seminar	IAS Princeton, USA	04/2015
Lorentz Workshop: Transition Disks	Leiden, NLD	03/2015
Inv. review: ISSI Beijing Workshop	Beijing, CHN	08/2014
Inv. review: 7th meeting on Cosmic Dust	Osaka, JPN	08/2014
Astrochemistry Seminar	Leiden Observatory, NLD	01/2014
Inv. colloquium	IPAG, Grenoble, FRA	01/2014
Inv. colloquium	U. at Albany, USA	09/2013
Postdoc Symposium	Harvard-Smiths. CfA, USA	10/2013
Conf: Dust Growth 2013	Heidelberg, GER	07/2013
Inv. review: From Dust to Rocks to Planets	Waiokola, HI, USA	04/2013
Seminar	LANL, Los Alamos, USA	03/2013
Star Formation Seminar	Harvard-Smiths. CfA, USA	03/2013
Excellence Cluster Science Day	Garching, GER	12/2012
Conf.: Instabilities & Structures in PPDs	Marseille, FRA	09/2012
Conf.: Planet Formation & Evolution	Munich, GER	09/2012
ESO SPF meeting	Garching, GER	05/2012
Cluster Colloquium	Universe Cluster, GER	02/2012
Inv. seminar	U. of Hawaii, Honolulu, USA	11/2011
Inv. review: Baroclinic Instability in Disks	Ringberg Castle, GER	06/2011
Inv. colloquium	USM, Munich, GER	05/2011
Group Seminar	U. of Kyoto, JPN	02/2011
Group Seminar	U. of Nagoya, JPN	02/2011
Lab Seminar	ILTS, Sapporo, JPN	02/2011
Conf.: Planet formation and evolution	U. of Göttingen, GER	02/2011
Group Seminar	MPIK, Heidelberg, GER	02/2011

	Star & Planet Formation Talk	ESO, Garching, GER	01/2011
	ITA Colloquium	U. of Heidelberg, GER	12/2010
	Conf.: Planetary Population Synthesis	Ringberg Castle, GER	12/2010
	Journal Club Talk	UMich, Ann Arbor, USA	11/2010
	JILA Talk	UC Boulder, USA	11/2010
	RG Lunch Talk	Harvard-Smiths. CfA, USA	11/2010
	MPIA Student Workshop	Norden, GER	05/2010
	PSF Seminar	MPIA, Heidelberg, GER	07/2009
	DAAD Kickoff Meeting	MPIA, Heidelberg, GER	06/2009
	MPIA PSF Retreat	Maulbronn, GER	10/2008
	DFG Group Video Seminar	MPIA, Heidelberg, GER	08/2008
	Joint Theory Seminar	MPIA, Heidelberg, GER	10/2008
	MPIA PSF Retreat	Jena, GER	10/2007

Poster Contributions

224th Meeting of the AAS	Boston, USA	07/2014
Origins of Stars and their Plan. Systems	Hamilton, CAN	06/2012
Herschel's View on Star and Plan. Formation	Grenoble, FRA	03/2012
Formation of the First Solids	Kauai Island, USA	11/2011
From Circumstellar Disks to Plan. Systems	Garching, GER	11/2009
Planetesimal Formation	Cambridge, GBR	09/2009
Planet Formation and Evolution	Tübingen, GER	03/2009
New Light on Young Stars	Pasadena, USA	10/2008

Teaching

- Co-supervision of students:
  Giovanni Rosotti (PhD 05/2015) 2011 – 2014
  Fredrik Windmark (PhD 11/2013) 2010 – 2013
  Paola Pinilla (PhD 07/2013) 2010 – 2013
  Christian Lenz (MS 2015) 2015 – 2016
  Christian Lenz (PhD) 2016 – present
- Supervision of students:
  Matías Gárate (PhD) 2017 – present
  Apostolos Zormpas (PhD) 2018 – present
  Bernat Ferrer (Master) 2018 – present
  Sen Tian (Master) 2018 – present
  Pablo Navarro (Bachelor) 2018
- Teaching of Masters and Bachelors courses at LMU Munich 2017 - now
- Master level lecture series 2012, 2017 - now
  Ludwig-Maximilians Universität Munich, Germany
  Topic: *Formation & Evolution of Planets in Protoplanetary Discs*
- Master level lecture series 2018
  Ludwig-Maximilians Universität Munich, Germany
  Topic: *Introduction to Radiative Transfer in Astrophysics*
- Lecture for "Probestudium Physik" 2017, 2018
- CAE's Teaching Excellence Workshop for Astronomy 06/2014
- Supervision of research internships at Excellence Cluster "Universe" 2012

- Physics Lab Course for Medical Students 2010
  University of Heidelberg, Germany

Other Activities & Achievements

- Successful ERC Starting Grant Proposal 2016 ($\sim$ 1.4 Million €)
- A-rated ERC Starting Grant Proposal 2014
- Co-author of Chapter in "Protostars & Planets VI", Arizona University Press
- Co-organizer of the Munich Physics Colloquium Series (2016-present)
- Referee for A&A, MNRAS, ApJ, Icarus, ERC
- Co-organizer of Aspen Center of Physics Workshop *Unveiling the Physics of Protoplanet Formation: Connecting Theory to Observations* (Aspen, 2018)
- SOC member of international conference *Take a closer look - The innermost region of protoplanetary disks* (Garching 2018)
- SOC member of international conference *Missing links from disks to planets* (Budapest 2016)
- SOC member & LOC chair of international conference *Planet Formation and Evolution 2012* ($\sim$200 participants)
- Organizing Committee of Königstuhl Colloquium Series
  at the Max-Planck-Institute for Astronomy (2016-2017)
- Organizing of RG Department Seminar Series
  at the Harvard-Smithsonian Center for Astrophysics (2013-2015)
- Webmaster of the MPIA Planet and Star Formation department (2008-2011)
- Organizer and co-organizer of several public outreach talks, guided tours, open house activities, ...
- Author of popular science articles in "Sterne und Weltraum" (german popular science magazine)