

CURRICULUM VITAE – Thomas K. Henning

Personal Information

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Education

1989 Habilitation, University of Jena
1984 PhD in Astrophysics, University of Jena
1981 Diploma Degree in Physics, University of Jena
1976 - 1980 Studies in Physics and Mathematics, University of Greifswald

Current Position(s)

2002 - present Professor for Astrophysics, University of Jena
2001 - 2024 Director at the Max Planck Institute for Astronomy & Head of Planet and Star
Formation Department, Heidelberg
2024 - Director Emeritus - MPIA

Previous Positions

2000 - 2002 Director of the Astrophysical Institute & University Observatory, Univ. of Jena
1999 - 2002 Chair for Astrophysics, University of Jena
1992 - 1998 Professor for Astrophysics, University of Jena
1991 - 1996 Head of the Max Planck Research Unit “Star Formation”, Jena
1989 - 1990 Research Fellow, Max Planck Institute for Radioastronomy, Bonn
1986 - 1988 Assistant Professor at the Astrophysical Institute and University Observatory, Jena
1984 - 1985 Postdoc, Charles University, Prague

Fellowships & Awards

2025 Invited Professor – ELSI/Science Tokyo
2025 Max Planck Lecture – Alfred Krupp Wissenschaftskolleg Greifswald
2021 Honorary Doctor – University of Lund
2020 Gay Lussac Humboldt Award
2019 Honorary Member – Hungarian Academy of Science
2019 - 2024 ERC Advanced Grant
2019 - 2021 Fellow of the Max Planck School Matter to Life
2019 Adjunct Professor TokyoTech
2018 Cozzarelli Prize (PNAS)
2017 Invited Professor - University of Copenhagen
2016 - 2021 Adjunct Professor - Tata Institute of Fundamental Research, Mumbai, India
2016 Invited Professor - Sapporo University
2015 Invited Professor - ESO Chile
2014 Marker Lecture, Pennstate University
2012 JWST Significant Achievement Award
2011 Littrow Lecture, Austrian Academy of Sciences
2009 30882 Tomhenning: Designation of minor planet 1992 SG2
2001 Scientific Member of the Max Planck Society
1999 Member of the German Academy of Sciences Leopoldina
1999 Invited Professor - University of Amsterdam
1997 Fundamental Research Award of the Federal State of Thuringia

Supervision of Graduate Students & Postdoctoral Fellows

1988-2022 20 (Jena) and 60 (Heidelberg) Postdocs/ 90 PhD Students/ 30 Master Students
25 of former group members now occupy tenured (-track) faculty/research positions
(see also: <http://www.mpia.de/henning/professors>)

Teaching

2002 - present

Honorary Professor for Astronomy, University of Heidelberg

ORGANIZATION OF SCIENTIFIC MEETINGS

(PI as organizer or in SOC, 2012+, participants at conferences ~100, at Ringberg Castle ~60)

- 2012 Extrasolar Planetary Atmospheres, Heidelberg, Germany
- 2013 Protostars and Planets VI, Heidelberg, Germany (~850 participants)
- 2014 Chemical Diagnostics in the ALMA/NOEMA Era, Heidelberg, Germany
- 2015 The Magneto-Rational Instability confronts Observations, Ringberg Castle, Germany
- 2016 Exoplanets I, Davos, Switzerland
- 2017 Resolving Planet Formation in the Era of ALMA and Extreme AO, Santiago de Chile
- 2018 Exoplanets II, Cambridge, UK
- 2020 Exoplanets III, Heidelberg, Germany (900 participants, online)
- 2022 Towards Molecular Complexity, Heidelberg, Germany
- 2023 Protostars & Planets VII; Kyoto, Japan
- 2024 Direct Imaging & Characterization of Exoplanets in the ELT Era, Tucson, USA
- 2025 Exoplanets and Planet Formation, Shanghai, China
- 2025 The Dusty Universe 2025: The Fifth Pan Dust Conference, Tucson, USA

Co-Organizer of Conference Series: “Early Phase of Star Formation (EPOS)” - 10th Meeting in

2024, Harvard-Heidelberg Meeting on Star Formation - 6th Meeting in Heidelberg in 2024

Tokyo-Heidelberg Meeting on Planet Formation - 4th Meeting in Edesheim, Germany in 2018

Institutional Responsibilities

- 2021-2023 Managing Director – Max Planck Institute for Astronomy
- 2002-present Faculty member, Heidelberg University, Germany
- 2001-2024 Director, MPIA Research Department *Planet and Star Formation*
- 2001-present Scientific Member of the Chemistry, Physics & Technology Section of the Max Planck Society (MPG)
- 2019-present Scientific Member of the Structures Excellence Cluster – Heidelberg University

Commissions of Trust (Selection)

- 2001-2008 President of the Scientific Council of the European Interferometry Initiative
- 2006-2007 Advisory Committee of the Kiepenheuer Institute for Solar Physics
- 2007-2016 ESO Council Member (Vice President for one election period)
- 2008-2010 Panel Chair of the European Research Council for Advanced Investigator Grants
- 2008-present Advisory Committee of the Thuringian State Observatory Tautenburg
- 2010-2016 ESO Strategic Working Group
- 2011-2017 COSPAR National Committee
- 2012-2019 Stern - Gerlach Prize Committee
- 2012-2015 Steering Committee of IAU Division H Interstellar Matter and the Local Universe
- 2015-present IAU Laboratory Astrophysics Commission
- 2015 & 2022 Evaluation Panel for Turku University
- 2015-present Coordinator – Heidelberg Initiative for the Origins of Life (HIFOL)
- 2015-2017 CAHA Executive Board
- 2015-2017, 2020-2016 LBT Board Member Representative and LBTB Chair
- 2017-2019 Visiting Committee – Royal Belgium Observatory
- 2017-2019 Founding Committee – MPI for the Chemical Evolution of Life
- 2019-2020 ALMA Visiting Committee
- 2016-2020 IAU Special Nominating Committee
- Referee for UK, French, Swiss, Dutch, Belgian, Swedish, Canadian, Russian, Israeli, Japanese, Spanish, Indian, Norwegian, Taiwanese and US funding organizations
- 2018-present Member of Management Committee – European Astrobiology Initiative
- 2021 Evaluation Committee – Institute for Computational Science, Zurich University
- 2022- Steering Committee – European Astrobiology Institute
- 2022-2023 Member of Evaluation Committee for Physics in Sweden
- 2023/2025 Member of Evaluation Committee for new Helmholtz Institute/Initiative

Memberships in Scientific Societies

1990-present	Member of Astronomische Gesellschaft (AG)
1990-present	Member of Deutsche Physikalische Gesellschaft (DPG)
1991-present	Member of International Astronomical Union (IAU)

Editor of Journals

Living Reviews in Computational Astrophysics, Sterne und Weltraum (popular journal, main editor), Star Formation Newsletter

Major Collaborations (selected)***Consortium collaborations***

2006-2014	PanSTARRS1 (Kaiser, Chambers)
2007-present	Chemistry in Disks (Dutrey, Gorti, Guilloteau, Wakelam, Piétu, Semenov)
2010-present	HatSouth Planet Search (Bakos, Bayliss, Jordan)
2015-2023	SPHERE Exoplanet SHINE & Disk Program (VLT) - (Chauvin, Dominik)
2016-present	ISPY Exoplanet Survey (VLT) - (Quanz, Queloz, Segrasan, Quirrenbach)
2018-2023	Carmenes Exoplanet Search Program
2019-2022	EDEN Transit Survey for Rocky Planets (Aparicio)
2020-	Prodige/NOEMA Project – From cores to disks (Caselli, Guilloteau, Semenov)
2020-	WINE TESS Exoplanet Search Project (Jordan)
2021-	MINDS JWST Disk Chemistry Program (PI)

Instrument Consortia (Selection)

FIFI-LS at Sofia (CoI), PACS at Herschel (CoI), MIRI at JWST (CoPI), MATISSE at VLTI (CoPI), SHARK-IR at LBT (CoI), CARMENES, GRAVITY, METIS, Roman Space Telescope: Science Team Member, LUVOIR: International ESA Member – Science and Technology Definition Team; 2nd Earth Spectrograph, PRIMA (CoI)

Publication Impact

> 2.500 refereed publications, >107 000 citations, H-index: 143