

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 – Max Planck Institute for Astronomy

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 Postdoctoral Fellow, Charles University, Prague

Fellowships & Awards

2027 Redman Lectureship – McMaster University/Hamilton (Canada)
2026 Distinguished Visiting Scientist – European Southern Observatory/Chile
2025 Guest Professor – Hungarian Research Network/Konkoly Observatory
2025 Invited Distinguished Professor – ELSI/Science Tokyo
2025 Max Planck Lecture – Alfred Krupp Wissenschaftskolleg Greifswald
2023 Karl Schwarzschild Medal
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 - 2020 Adjunct Professor TokyoTech/Japan
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/Japan
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 National Academy of Sciences Leopoldina
1999 Invited Distinguished 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/ 35 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
2024 Annual Meeting of the Leopoldina – Orgins and Start of Life
2025 The Dusty Universe 2025: The Fifth Pan Dust Conference, Tucson, USA
2025 International Conference on Exoplanets and Planet Formation, Shanghai, China
2026 European Conference on Laboratory Astrophysics, Heidelberg, Germany

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
2006-2016 Chairman of the Division Astrophysics/Astronomy of the Leopoldina
2007-2016 ESO Council Member (Vice President for one election period)
2008-2010 Panel Chair of the European Research Council for Advanced Investigator Grants
2008-2015 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, 2020-2024 LBT Board Member Representative and LBTB Chair
2016 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

2019-2021	Member of Steering Committee – European Astrobiology Institute (EAI)
2022-2023	Evaluation Committee – Institute for Computational Science, Zurich Univ.
2023/2025	Member of Evaluation Committee for Physics in Sweden
2023-2026	Member of Evaluation Committee for new Helmholtz Institute Initiative
2026-2029	Selection Committee for Kavli Prize in Astronomy
--	Visiting Committee – Institute of Astronomy and Astrophysics/Academia Sinica
--	Referee for German, UK, French, Swiss, Dutch, Belgian, Canadian, Czech, Hungarian, Polish, Russian, Spanish, Swedish, Israeli, Japanese, Spanish, Indian, Norwegian, Taiwanese and US funding organizations

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)
2010-2022	HatSouth Planet Search (Bakos, Bayliss, Jordan)
2015-2023	SPHERE Exoplanet SHINE & Disk Program (VLT) - (Chauvin, Dominik)
2016-present	ISPY Exoplanet Survey (VLT) - (Launhardt, Queloz, Segrasan, Quirrenbach)
2018-2026	Carmenes Exoplanet Search Program
2019-2022	EDEN Transit Survey for Rocky Planets (Apai)
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) (Kamp, van Dishoeck, Tabone)
2024-	Second Earth Project (Buchhave, Kreidberg, Reiniers, Quirrenbach, Jordan)

Instrument Consortia (Selection)

FIFI-LS at SOFIA Airborne Observatory (CoI), PACS at Herschel Space Observatory (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 (CoI), PRIMA (CoI)

Publication Impact

> 1.840 refereed publications, >122 000 citations, H-index: 151