

Curriculum Vitae

Lee W. Hartmann

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Leo Goldberg Collegiate Professor Emeritus

Member, National Academy of Sciences

Fellow, AAAS, AAS

Education

1972 Case Western Reserve University, B.S., Astronomy
1976 University of Wisconsin, Ph.D., Astronomy

Positions

1984-2005 Astrophysicist, Smithsonian Astrophysical Observatory
1984 May, Guest Professor, University of Heidelberg
1989 January, Visiting Scientist, UC-Santa Cruz
1989 May, Visiting Scientist, Max-Planck-Institut für Astronomie, Heidelberg
1996 May, Visiting Scientist, Stockholm Observatory
2005-2011 Professor, Dept. of Astronomy, Univ. of Michigan
2011-2022 Leo Goldberg Collegiate Professor, Dept. of Astronomy, Univ. of Michigan
2022- Leo Goldberg Collegiate Professor Emeritus

Awards:

2011 Fellow of the American Association for the Advancement of Science
2023 Fellow of the American Astronomical Society

Organizations and Committees (External)

Chair of Science Panel on the Interstellar Medium and Star and Planet Formation, Astro2020
(Astronomy Decadal Survey, National Academy of Sciences), 2019-20
Chair of Science Frontier Panel on Planetary Systems and Star Formation, Astro2010 (Astronomy Decadal Survey, National Academy of Sciences), 2009-10

Member of Committee on Astrophysics and Astronomy (CAA) for the National Academy of Sciences/National Research Council, 2016-2019
 Vice-President, American Astronomical Society, 2007-10
 Councilor, American Astronomical Society, 2005-07
 Member of American Astronomical Society e-books committee, 2015-2019

 Chair of Gordon Research Conference on Origins of Solar Systems, 2007
 Vice-Chair for Gordon Research Conference on Origins of Solar Systems, 2005

 Chair of NOAO Visiting Committee, 2012-13
 Member, AURA Decadal Survey Steering Committee, 2007-2008
 Member, NOAO Visiting Committee, 2008-2009

 NASA Origins of Solar Systems Steering Committee, 1992-95
 NASA Origins of Solar Systems Program Review, 1991, 1997, 1998, 2000, 2011
 Chair of NASA Keck TAC, 2012-13
 Panel chair, NASA Exoplanets program, 2014
 Panel chair, NASA ATP, 2014
 Panel member, NASA Emerging Worlds program, 2017
 Panel member, NASA Exoplanets program, 2017
 NASA Panel Chair, Space Telescope Proposal Review, 2015
 IRAM Program Committee (TAC), 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Spitzer Space Telescope Cycle 13 panel review, 2016
 Spitzer Space Telescope Director's Discretionary Time review, 2017
 IRAM Program Committee (proposal review) 2017-2024

Thesis students

1998 PhD, Cesar Briceño, CIDA, Venezuela
 2000 PhD, Ray Jayawardhana, Harvard, co-advisor with Giovanni Fazio
 2000 PhD James Muzerolle, SAO Predoctoral fellow, UMASS
 2005 PhD Aurora Sicilia-Aguilar, SAO Predoctoral fellow, Univ. Madrid
 2011 PhD Zhaohuan Zhu, University of Michigan
 2011 PhD John Tobin, University of Michigan (co-advisor with E. Bergin);
 2013 PhD Wen-Hsin (Tina) Hsu, University of Michigan
 2017 PhD Jaehan Bae, University of Michigan
 2017 PhD Marina Kounkel, University of Michigan
 2020 PhD Aleksandra Kuznetsova, University of Michigan

Undergraduate students

2018-2019 Kelly Milliner, Shangjia Zhang, honors (with first-author papers); 2021-2023 Fiona Han, Jacob Cleaver (first author papers) 2024-2025 August Masley, first author paper

Bibliography

Book

- 1998 Accretion Processes in Star Formation, L. Hartmann, Cambridge University Press.
2009 Accretion Processes in Star Formation, second edition, L. Hartmann, Cambridge University Press.

Journals

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- 1974 Stellar Molecular Abundances. II: The Violet Depression in Carbon Stars, L. Hartmann and J. F. Dolan, *ApJ*, 187, 151
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- 1975 On the Evolution and Composition of Sirius and Procyon, L. Hartmann, L. M. Garrison, and A. Katz, *ApJ*, 199, 127
- 1975 The Subsonic Structure of Radiatively Driven Winds in Early-Type Stars, J. P. Cassinelli and L. Hartmann, *ApJ*, 202, 718
- 1976 Interpretation of the Spectral and Photometric Variations of R Coronae Borealis, L. Hartmann and J. P. Apruzese, *ApJ*, 203, 610
- 1976 Zeeman Observations of the H α Region in BY Draconis, C. M. Anderson, L. Hartmann, and B. W. Bopp, *ApJ*, 204, L51
- 1977 Possible Infalling Gas in the dK5e Star EQ Virginis, L. Hartmann and C. M. Anderson, *ApJ*, 213, L67
- 1977 The Effects of Winds and Coronae of Hot Stars on the Infrared and Radio Continua, J. P. Cassinelli and L. Hartmann, *ApJ*, 213, 488
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- 1977 Abundances in Late-Type Dwarfs, L. Hartmann and C. M. Anderson, *ApJ*, 215, 188
- 1978 The Infrared Eclipse of V444 Cygni and the Structure of Wolf-Rayet Winds, L. Hartmann, *ApJ*, 221, 193
- 1978 Nebular Observations and Stellar Coronae, L. Hartmann and J.C. Raymond, *ApJ*, 222, 541

- 1978 Long Term Variability of dMe Stars, M. J. Phillips and L. Hartmann, *ApJ*, 224, 182
- 1978 Disk Structure of Early-Type Stellar Envelopes, L. Hartmann, *ApJ*, 224, 520
- 1978 IUE Observations of X-Ray Sources: HD153919; HDE226868; HZ Her, A. K. Dupree *et al.*, *Nature*, **275**, 377.
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- 1979 Ultraviolet Spectroscopic Observations of Globular Clusters, A. K. Dupree *et al.*, *ApJ*, 230, L89
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- 1979 Radiative Amplification of Sound Waves in the Winds of O and B Stars, K. B. MacGregor, L. Hartmann, and J. C. Raymond, *ApJ*, 231, 514
- 1979 Chromospheres of the Active Dwarf Binaries EQ Peg and Xi Boo, L. Hartmann *et al.*, *ApJ*, 233, L69
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- 1980 IUE Observations of the X-ray Source HZ Herculis/Her X-1, H. Gursky *et al.*, *ApJ*, 237, 163
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- 1980 Ultraviolet Observations of the Cygnus Loop, J. C. Raymond, J. H. Black, A. K. Dupree, L. Hartmann, and R. S. Wolf, *ApJ*, 238, 881
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- 1984 An Analysis of the Vaughan-Preston Survey of Chromospheric Emission, L. Hartmann, D. Soderblom, R.W. Noyes, N. Burnham, and A.H. Vaughan, *ApJ*, 276, 254
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- 1990 Optical Veiling, Disk Accretion, and the Evolution of T Tauri Stars, L. Hartmann and S.J. Kenyon, *ApJ*, 349, 190
- 1990 On the Apparent Positions of T Tauri Stars in the HR Diagram, S.J. Kenyon and L. Hartmann, *ApJ*, 349, 197
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- 1990 An IRAS Survey of the Taurus-Auriga Molecular Cloud, S.J. Kenyon, L. Hartmann, K.M. Strom, and S.E. Strom, *AJ*, 99, 869

- 1990 Chromospheres of Metal-Deficient Field Giants, A.K. Dupree, L. Hartmann, and G.H. Smith, *ApJ*, 353, 623
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- 1991 Optical Excess Emission in T Tauri Stars, P. Hartigan, S.J. Kenyon, L. Hartmann, S.E. Strom, S. Edwards, A.D. Welty, and J. Stauffer, *ApJ*, 382, 617
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- 1993 On the Spatial Distribution of Pre-Main Sequence Stars in Taurus, M. Gomez, L. Hartmann, S.J. Kenyon, and R. Hewett, *AJ*, 105, 1927.
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- 1993 Boundary Layers in Pre-Main Sequence Accretion Disks, R. Popham, R. Narayan, L. Hartmann & S. Kenyon, *ApJL*, 415, L127
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- 2004 Testing the Paradigm of Low-Mass Star Formation, L. Hartmann, invited review, IAU Symposium 221, 201
- 2005 Flows, Filaments, and Fragmentation, L. Hartmann, in The Initial Mass Function 50 Years Later, eds. E. Corbelli, F. Palla, & H. Zinnecker (Dordrecht: Springer), p.341
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- 2009 The star-disk-jet system and angular momentum transfer, L. Hartmann, in “Protostellar Jets in Context”, eds. K. Tsinganos, T. Ray, & M. Stute (Heidelberg: Springer), 23
- 2010 Formation and early evolution of stars and proto-planetary disks, L. Hartmann, Heliophysics: Evolving Solar Activity and the Climates of Space and Earth, eds. C.J. Schrijver & G.L. Siscoe (Cambridge University Press), 49
- 2010 ‘Initial conditions and the IMF; A personal view’, L. Hartmann, Tenerife, Spain, invited conference summary, Constellation 2010, The Origin of Stellar Masses, Oct. 2010
- 2011 Series of three lectures on star formation, L. Hartmann, for ISIMA 2011, Conference and Workshop on Star and Planet Formation, Kavli Institute for Astronomy and Astrophysics, Beijing, China, June-July 2011
- 2011 Accretion in low-mass stars, L. Hartmann, invited review, Formation and Early Evolution of Very Low Mass Stars and Brown Dwarfs, ESO, Garching, Germany, Oct. 2011
- 2012 Star Formation Up Close, L. Hartmann, invited review, Galactic Scale Star Formation, July 30 - Aug 3, Heidelberg, Germany
- 2012 Thresholds for Star Formation, L. Hartmann, colloquium, Centro de Radioastronomia y Astrofisica, UNAM, Morelia, Mexico
- 2012 Thirty-five plus years of protostellar collapse models, L. Hartmann, invited talk, Star Formation & the Interstellar Medium: Thirty Five Years Later, Berkeley, CA Sep. 2012

2013 Putting the "Star" back in star formation with help from friends at CRyA, invited talk at meeting "Frontiers in Contemporary Astrophysics", for the 10th anniversary of the Centro de Radioastronomia y Astrofisica, UNAM, Morelia, Mexico

2014 The protostellar luminosity problem; historical perspective, invited talk at 2014 Oort Workshop, Leiden

2015 June, invited review on "Formation of Protostars and Protoplanetary Disks" at the Gordon Research Conference on "Origins of Solar Systems", Mt. Holyoke College.

2016 January, invited review on "Disk evolution and the fate of water", at The Delivery of Water to Proto-planets, Planets, and Satellites, workshop at the International Space Science Institute, Bern, Switzerland

2016 Accretion onto Pre-Main Sequence Stars, L. Hartmann, G. Herczeg, N. Calvet, *Annu. Rev. Astron. Ap.*, 54, 135

2017 Disk Evolution and the Fate of Water, L. Hartmann, F. Ciesla, O. Gressel, R. Alexander, *Space Sci. Rev.*, 212, 813

2019 Numerical experiments on star formation: mass functions and angular momenta, talk at Munich Sternwarte, and also at Max Planck Institut fur Astronomie, Heidelberg

2019 Two Puzzles of FU Ori objects, invited talk, at "Gaia's view of Pre-Main Sequence Evolution..." Leeds, UK

2022 Disk Accretion, invited review, at "Inside 2022; the inner regions of protoplanetary disks, Ringberg Castle

2023 Observational constraints for accretion outbursts, invited talk at "Lubow at 75", University of Nevada-Las Vegas

2024 How do protostars accrete from disks?, talk at EPoS 2024, Ringberg Castle