

Curriculum Vitae: Alyssa A. Goodman

Name Alyssa A. Goodman
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Origin July 1, 1962, New York, New York

Education

1984 Sc.B. Sc.B. Massachusetts Institute of Technology, Physics
Thesis: *Grain Alignment in Molecular Clouds* (Advisor: C. Alcock)
1986 A.M. Harvard University, Physics
1989 Ph.D. Harvard University, Physics
Thesis: *Interstellar Magnetic Fields: An Observational Perspective*
(Advisor: P. Myers)

Academic Experience

2017- Co-Director for Science, Radcliffe Institute for Advanced Study
2017 Visiting Professor, University of Vienna
2016–2017 Edward, Frances, and Shirley B. Daniels Fellow, Radcliffe Institute for Advanced Study
2015– Robert Wheeler Willson Professor of Applied Astronomy, Harvard University
1999–2015 Professor, Harvard University Astronomy Department
1995– Research Associate, Smithsonian Astrophysical Observatory
2009–2010 Scholar-in-Residence, WGBH Boston (consultant role)
2008–2009 Scholar-in-Residence, WGBH Boston (sabbatical)
2005–2008 Founding Director, Harvard Initiative in Innovative Computing
2002–2010 Principal Investigator, The COMPLETE Survey of Star-Forming Regions
2001–2002 Visiting Professor, Yale University Astronomy Department (sabbatical)
1996–1999 Associate Professor, Harvard University Astronomy Department
1995–1997 Head Tutor, Harvard University Astronomy Department
1992–1996 Assistant Professor, Harvard University Astronomy Department
1989–1992 Post-doctoral Fellow, University of California, Berkeley
1984–1989 Research Assistant, Harvard-Smithsonian Center for Astrophysics
1983 Summer Fellow, NASA-Goddard Institute for Space Studies

Other Professional Experience

2020- Founder and President, glue solutions inc.

Honors, Awards and Elected Positions

2020 Franke Drake Lectureship, Green Bank Observatory
2020 Fellow, American Astronomical Society (AAS)
2019 Tinsley Lecturer, University of Texas
2017 Salpeter Lecturer, Cornell University
2015 Scientist of the Year, Harvard Foundation
2014 Pappalardo Lecturer, Massachusetts Institute of Technology
2014 Benjamin Dean Lecturer, California Academy of Sciences
2013 Bishop Lecturer, Columbia University
2009 Fellow, American Association for the Advancement of Science (AAAS)
2009 Collins Lecturer, Massachusetts General Hospital
2008 Inaugural "Scholar-in-Residence" at WGBH, Boston
2008- Microsoft Academic Partner
2008 Apple Science Innovator Award
2008 Chair, Astronomy Section of the AAAS
2006 NCSA Distinguished Lecturer, National Center for Supercomputer Applications
2005 Dean's Distinguished Lecturer, Harvard School of Public Health
2004 Sturm Lecturer, Wesleyan University
1998 Bok Prize, Harvard University
1997 Newton Lacy Pierce Prize, American Astronomical Society
1994-2000 National Science Foundation Young Investigator
1994 Pedagogical Innovation Award, Harvard University
1993-1995 Alfred P. Sloan Fellow
1989-1991 President's Fellowship, University of California, Berkeley
1990 First Prize Paper, NATO ASI on Star Formation
1986-1989 Amelia Earhart Fellowships from Zonta International
1985 Francis Lee Freidman Award in Physics, Harvard University
1983 Sigma Pi Sigma, MIT

Society Memberships

American Association for the Advancement of Science; American Association of University Professors; American Astronomical Society; International Astronomical Union; Association for Computing Machinery; IEEE; URSI Commission J (Radio Astronomy)

Advisory & Review Committees

NASA-Infrared Space Observatory Key Projects Review (1992); Scientific Working Group for NRAO Green Bank Telescope (1992–99); Arecibo Users and Scientific Advisory Committee (1993–96); NSF Site Review for Center for Particle Astrophysics (1994); NASA Astrophysics Data Program Review (1995); Smithsonian Astrophysical Observatory Time Allocation Committee (1995–97); NSF-Caltech Submillimeter Observatory Review (1996); NSF Galactic Astronomy ISM Panel (1996, 2000 (chair)); M4 Satellite Science Advisory Group, Chair (1997, 2000); Harvard University Faculty Council (1997–98); AAS Publications Board (1998–2001); United States Square Kilometer Array Consortium Representative (1999–); National Academy of Science's Committee on Astronomy and Astrophysics (2000–2003); NASA-SIRTF Legacy Review, Panel Chair (2000); AAS Committee on Astronomy and Public Policy (2000–6); NRAO VLA/VLBA Time Allocation Committee (2001–4); AUI NRAO Director Search Committee (2002); Harvard University Provost's Committee on Science (2002–3); Task Force on Science and Technology (Harvard, 2003–4); Center for Astrophysics Director Search Advisory Committee (2003–4); Spitzer Science Center Oversight Committee (2003–6); Harvard Commission of Inquiry (2004–5, 2007–8); Harvard Subcommittee on Quantitative Reasoning (2002–2008); Goldwater Scholarship Selection Committee (2004–); Harvard FAS Dean Search Advisory Committee (2006–7); AAS Chambliss Award (for Textbook Writing) Committee (2006–7); Yale University Visiting Committee for Astronomy (2008); AAAS Chair (2008); AAAS Board (2009); NRC board on Research Data and Information (2009–2012); VAO Scientific Advisory Committee (2009–2012); ALMA North American Science Advisory Committee (2009–2012); Graduate Admissions, Chair (2011, 2014); Mentoring Committee, Chair (2011); Harvard Library Digital Scholarship Committee (2011–2012); Committee on Professional Conduct (2011–); HILT Advisory Committee (2012–2014); Faculty Advisor to the Communication Science Conference (ComSciCon, 2014–); Harvard/FAS Library Committee (2014–2019); American Astronomical Society Publications Task Force (2014); American Astronomical Society Publications WorldWide Telescope Force (2015); Astroinformatics and Astrostatistics Working Group of the American Astronomical Society (2012–); Sloan/UCLA Knowledge Infrastructures Advisory Committee (2012–); Board on Data, Ethics and Society (2014–2017); Dunlap Institute Advisory Committee (Chair, 2016–2019); Harvard Data Science Initiative Steering Committee (2017–2019); Vice Provost for Advances in Learning Advisory Committee (2017–19); Harvard FAS-Division of Continuing Education Standing Committee (Chair) (2019–); MPE Fachbeirat (2019); CEASAR Advisory Board (2020–); (German) National Research Data Infrastructures (NFDI) Review Panel (2020); ORIGINS Excellence Cluster (Germany) Science Advisory Committee (2020–); NAS Committee on Astronomy and Astrophysics (2021–); NASA SciAct Working Group on The Science of Science (2021–) [Departmental and Conference Organizing Committees not listed here.]

References

1988

Myers PC, Goodman AA (1988) Magnetic molecular clouds - Indirect evidence for magnetic support and ambipolar diffusion. *ApJ*, 329:392–405. <https://doi.org/10.1086/166385>

Myers PC, Goodman AA (1988) Evidence for magnetic and virial equilibrium in molecular clouds. *ApJL*, 326:L27–L30. <https://doi.org/10.1086/185116>

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1989

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Goodman AA, Crutcher RM, Heiles C, Myers PC, Troland TH (1989) Measurement of magnetic field strength in the dark cloud Barnard 1. *ApJL*, 338:L61–L64. <https://doi.org/10.1086/185401>

Goodman AA, Myers PC, Crutcher RM, Heiles C, Kazes I (1989) Measurement of the magnetic field in the molecular cloud B1. *The Physics and Chemistry of Interstellar Molecular Clouds - mm and Sub-mm Observations in Astrophysics*, 331:182–185. <https://doi.org/10.1007/BFb0119475>

1990

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1991

Myers PC, Fuller GA, Goodman AA, Benson PJ (1991) Dense cores in dark clouds. VI - Shapes. *ApJ*, 376:561–572. <https://doi.org/10.1086/170305>

Myers PC, Goodman AA (1991) On the dispersion in direction of interstellar polarization. *ApJ*, 373:509–524. <https://doi.org/10.1086/170070>

1992

Goodman AA, Jones TJ, Lada EA, Myers PC (1992) The structure of magnetic fields in dark clouds - Infrared polarimetry in B216-217. *ApJ*, 399:108–113. <https://doi.org/10.1086/171907>

1993

Goodman AA, Benson PJ, Fuller GA, Myers PC (1993) Dense cores in dark clouds. VIII - Velocity gradients. *ApJ*, 406:528–547. <https://doi.org/10.1086/172465>

Crutcher RM, Troland TH, Goodman AA, Heiles C, Kazes I, Myers PC (1993) OH Zeeman observations of dark clouds. *ApJ*, 407:175–184. <https://doi.org/10.1086/172503>

1994

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Goodman AA, Heiles C (1994) The magnetic field in the Ophiuchus dark cloud complex. *ApJ*, 424:208–221. <https://doi.org/10.1086/173884>

1995

Goodman AA, Whittet DCB (1995) A Point in Favor of the Superparamagnetic Grain Hypothesis. *ApJL*, 455:L181. <https://doi.org/10.1086/309840>

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1997

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2000

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2001

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2008

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2009

Li H-b., Dowell CD, Goodman A, Hildebrand R, Novak G (2009) Anchoring Magnetic Field in Turbulent Molecular Clouds. *ApJ*, 704:891–897. <https://doi.org/10.1088/0004-637X/704/2/891>

Pineda JE, Rosolowsky EW, Goodman AA (2009) The Perils of Clumpfind: The Mass Spectrum of Substructures in Molecular Clouds. *ApJL*, 699:L134–L138. <https://doi.org/10.1088/0004-637X/699/2/L134>

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2010

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Kauffmann J, Pillai T, Shetty R, Myers PC, Goodman AA (2010) The Mass-size Relation from Clouds to Cores. II. Solar Neighborhood Clouds. *ApJ*, 716:433–445.
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Pineda JE, Goodman AA, Arce HG, Caselli P, Foster JB, Myers PC, Rosolowsky EW (2010) Direct Observation of a Sharp Transition to Coherence in Dense Cores. *ApJL*, 712:L116–L121.
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2011

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2012

Beaumont CN, Goodman AA, Alves JF, Lombardi M, Román-Zúñiga CG, Kauffmann J, Lada CJ (2012) A simple perspective on the mass-area relationship in molecular clouds. *MNRAS*, 423:2579–2586.
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