

Sean M. Andrews

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Professional Appointments

2024 –	Senior Astrophysicist, Smithsonian Astrophysical Observatory
2019 –	Director, Radio Telescope Data Center (at SAO)
2010 –	Lecturer, Harvard University Department of Astronomy
2010 – 2024	Astrophysicist, Smithsonian Astrophysical Observatory
2007 – 2010	NASA Hubble Fellow, Smithsonian Astrophysical Observatory
2002 – 2007	Research Assistant, University of Hawai'i Institute for Astronomy
2001 – 2002	Teaching Assistant, University of Hawai'i Department of Physics & Astronomy
2000	NASA Summer Intern, Northwestern University Dearborn Observatory
1999	NSF (REU) Summer Intern, National Radio Astronomy Observatory

Education

2007	Ph.D. Astronomy, University of Hawai'i at Manoa
2003	M.S. Astronomy, University of Hawai'i at Manoa
2001	B.A. Physics (Honors) and Mathematics, Northwestern University

Honors and Awards

2022 –	Web of Science + Clarivate, Highly Cited Researcher (top 1%, Space Sciences)
2018	Invited Discourse, XXX IAU General Assembly
2017, 2010	Secretary's Research Prize, Smithsonian Institution
2017	Beatrice Tinsley Visiting Professor, University of Texas at Austin
2010	Paul Hertelendy (pH) Prize, Harvard-Smithsonian Center for Astrophysics
2007	Hubble Fellowship, NASA
2004	Graduate Student Research Program Fellowship, NASA

Research Synopsis

Primary Interests:

- Structures, physical/chemical conditions, dynamics, and evolution of protoplanetary disks
- Planet formation: planet-disk interactions, demographics analyses

- Radio interferometry: observations, imaging, Fourier analysis, signal processing
- Continuum and molecular line radiative transfer modeling

Publications and Presentations Summary: [ORCID [0000-0003-2253-2270](https://orcid.org/0000-0003-2253-2270)]

- curated [ADS Library](#); 279 publications; 23,119 citations; *h*-index = 83 (as of 2025 June)
- 40 invited plenary talks at conferences (incl. an “Invited Discourse” at the XXX IAU GA in 2019)
- 57 invited department colloquia; (many additional public-focused lectures)

Mentoring

Supervisor or Primary Mentor for: 2 staff members; 21 postdoctoral fellows; 7 PhD students; 11 undergraduate students; 2 high school students. (plus routine advisory committee roles)

Service (selected)

Advisory Committees: ALMA Wideband Sensitivity Upgrade System PDR; ALMA Science Advisory Committee (ASAC); ALMA North American Science Advisory Committee (ANASAC); NRAO and Green Bank Observatory Users Committee (chair); ngVLA Science Working Group(s) (chair); Astro2020 Decadal Survey - Panel on the ISM, Star and Planet Formation; NASA Nexus for Exoplanet System Science Steering Council; Submillimeter Array Governing Board; Giant Magellan Telescope Science Definition Group - Star & Planet Formation.

Hiring and Prize Committees: The Undergraduate Awards (Mathematics & Physics panel); NRAO Jansky Fellowship; Submillimeter Array Fellowship; Origins Project Prize (nominating committee); NASA Postdoctoral Fellowship Program.

Meeting Organization: Gordon Research Conferences, Origins of Solar Systems (chair and vice chair, elected); COSPAR-43, Unifying Planet Formation out of Elementary Building Blocks (SOC); Harvard-Heidelberg Star Formation Series (SOC); ALMA Community Days (chair); CfA Postdoc Symposium (SOC); Protostars & Planets V (LOC).

Funding Peer Review: Cottrell Scholars, NSF Division of Astronomy Sciences; NASA Exoplanets Research Program; NASA Emerging Worlds; NASA Origins of Solar Systems; Smithsonian Scholarly Studies; ANR (France); ERC (EU); Royal Society (UK); NSERC (Canada); NWO (Netherlands); DFG (Germany); FONDECYT (Chile); FWF (Austria).

Observing Resources Peer Review: ALMA (panels, Large Programs, distributed); Gemini Observatory; Hubble Space Telescope; JCMT; JWST; NASA Keck Observatory; Submillimeter Array

Internal Roles: SAO Permanent Track Research Astronomer search committee; CfA/Clay Prize Fellowships search committee (chair); CfA Director search committee; Radio Telescope Data Center hiring committee; Professional Accomplishments Evaluation (tenure and promotions) committee; CfA colloquium committee (chair); Myron Lear Prize; 51 Pegasi b Prize Fellowship.