

# Abigail Holmes Mills | CV

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## SPECIALIZATION

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AOS: History and Philosophy of Science, Philosophy of Astronomy  
AOC: Technology Ethics, Science Policy

## AFFILIATIONS AND EDUCATION

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2024-PRESENT	Postdoctoral Teaching Fellow, Jimmy and Rosalynn Carter School of Public Policy, Georgia Institute of Technology
2024	PhD, History and Philosophy of Science, University of Notre Dame, Dissertation: <i>Climbing the Cosmic Distance Ladder</i>
2014	BS, Astronomy, University of Illinois at Urbana-Champaign

## PUBLICATIONS

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2025	Duerr, Patrick & Holmes Mills, Abigail, "The Change-Driver Account of Scientific Discovery: Philosophical and Historical Dimensions of the Discovery of the Expanding Universe," <i>Journal for General Philosophy of Science</i> 56.
2022	Holmes, Abigail & Rubin, Hannah, "Not so Fast with Fast Funding," <i>Accountability in Research</i> 31(4).
2019	Li, Chuan-Jui, Kerzendorf, Wolfgang E., Chu, You-Hua, Chen, Ting-Wan, Do, Tuan, Gruendl, Robert A., Holmes, Abigail, et al., "Search for Surviving Companions of Progenitors of Young LMC Type Ia Supernova Remnants," <i>The Astrophysical Journal</i> 886(2).
2017	Litke, Katrina, Chu, You-Hua, Holmes, Abigail, et al., "Nature of the Diffuse Source and Its Central Point-like Source in SNR 0509-67.5," <i>The Astrophysical Journal</i> 837(2).

## TEACHING

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At the GEORGIA INSTITUTE OF TECHNOLOGY, as INSTRUCTOR

SPRING 2026	AI Ethics and Policy
SPRING 2026	Philosophy of Science
FALL 2025	Science, Technology, and Human Values
FALL 2025	Environmental Ethics (Honors Program)
SUMMER 2025	Introduction to Philosophical Analysis (Online, Accelerated)
SPRING 2025	Theories of Knowledge
SPRING 2025	Philosophy of Technology
FALL 2024	Science, Technology, and Human Values
FALL 2024	Environmental Ethics (Honors Program)

## OTHER TEACHING

SPRING 2022	Instructor, <i>Ethics of Space Exploration</i> , University of Notre Dame
FALL 2023	Teaching Assistant, <i>Science, Technology, and Society</i> , University of Notre Dame
SPRING 2020, FALL 2019	Teaching Assistant, <i>Introduction to Metaphysics and Epistemology</i> , University of Notre Dame
2015-2017	Physics Classroom Teacher, Head of Physics Department, and Peace Corps Volunteer at Endagaw Secondary School, Tanzania

## SELECTED PRESENTATIONS

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2024	<i>Assessing Altmetrics: Metrics for Platform Science</i> , Poster, Philosophy of Science Association
2024	<i>What Makes a 'Good' Cosmic Distance Indicator?</i> , Contributed Talk, American Astronomical Society, Historical Astronomy Division
2023	<i>Are there Independent Measurements of the Hubble Constant?</i> , Contributed Talk, Cosmology and Quantum Gravity Beyond Spacetime, University of Western Ontario
2023	<i>Tension Before the Hubble Tension</i> , Poster, American Astronomical Society
2022	<i>Not so Fast with Fast Funding</i> , Poster, Philosophy of Science Association
2022	<i>Metrics For Platform Science: Altmetrics, Expertise, and Public Trust</i> , Contributed talk, Society for Social Studies of Science
2021	<i>Symmetry and Detectability as Physical Concepts</i> , Contributed Talk, Philosophy of Science Association
2020	<i>Intellectual and Moral Virtues of the Japanese Bacteriological Warfare Program</i> , Contributed talk, History of Science Society Virtual Forum
2019	<i>Type Ia Supernovae in Cosmology</i> , Contributed talk, James T. Cushing Memorial Prize in History and Philosophy of Physics Symposium, University of Notre Dame

## SERVICE

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FALL 2023	Organizer, Intellectual Virtues and Pedagogy Reading Group, University of Notre Dame
2022	Organizer, <a href="#">3rd Annual History and Philosophy of Science, Technology, and Medicine Graduate Student Conference</a> <i>Theme: "Reasoning in the Historical Sciences," Invited Speakers: Adrian Currie, Nora Mills Boyd, Max Dresow, and Meira Gold</i>
2021-2022	Organizer, HPS Writing Accountability Group
2020-2021	Organizer, HPS Works-in-Progress Peer Review
2019, 2021	Selection committee member, HPS Graduate Student Conference
2019-2022	Mentor, Philosophy First Year Mentorship Program

## PROFESSIONAL DEVELOPMENT

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### RESEARCH DEVELOPMENT

- 2023 The Extragalactic Distance Scale And Cosmic Expansion In The Era Of Large Surveys And The James Webb Space Telescope Workshop, Munich Center for Astro-, Particle, and Bio Physics
- 2020 Midwest Summer School in the Philosophy of Physics, University of Chicago
- 2019 Summer School on Mathematical Philosophy, Munich Center for Mathematical Philosophy, Ludwig Maximilian University

### TEACHING DEVELOPMENT

- 2025 Learning Well at Georgia Tech Student Well-Being Course, Georgia Institute of Technology
- 2021 Syllabus Development Practicum, University of Notre Dame
- 2021 Striving for Excellence in Teaching Certificate, University of Notre Dame

## AWARDS

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- 2023 ISLA Dissertation Fellowship, University of Notre Dame
- 2023 Chambliss Student Achievement Award, Honorable Mention, American Astronomical Society
- 2023 Sloan Graduate Prize, The Reilly Center for Science, Technology, and Values, University of Notre Dame
- 2018-2023 University Presidential Fellowship, University of Notre Dame