

# 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: *Climbing the Cosmic Distance Ladder*

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," *Journal for General Philosophy of Science* 56.

2022 Holmes, Abigail & Rubin, Hannah, "Not so Fast with Fast Funding," *Accountability in Research* 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," *The Astrophysical Journal* 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," *The Astrophysical Journal* 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, *Ethics of Space Exploration*, University of Notre Dame

FALL 2023 Teaching Assistant, *Science, Technology, and Society*, University of Notre Dame

SPRING 2020, FALL 2019 Teaching Assistant, *Introduction to Metaphysics and Epistemology*, 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 *Assessing Altmetrics: Metrics for Platform Science*, Poster, Philosophy of Science Association

2024 *What Makes a 'Good' Cosmic Distance Indicator?*, Contributed Talk, American Astronomical Society, Historical Astronomy Division

2023 *Are there Independent Measurements of the Hubble Constant?*, Contributed Talk, Cosmology and Quantum Gravity Beyond Spacetime, University of Western Ontario

2023 *Tension Before the Hubble Tension*, Poster, American Astronomical Society

2022 *Not so Fast with Fast Funding*, Poster, Philosophy of Science Association

2022 *Metrics For Platform Science: Altmetrics, Expertise, and Public Trust*, Contributed talk, Society for Social Studies of Science

2021 *Symmetry and Detectability as Physical Concepts*, Contributed Talk, Philosophy of Science Association

2020 *Intellectual and Moral Virtues of the Japanese Bacteriological Warfare Program*, Contributed talk, History of Science Society Virtual Forum

2019 *Type Ia Supernovae in Cosmology*, 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, [3rd Annual History and Philosophy of Science, Technology, and Medicine Graduate Student Conference](#)  
*Theme: "Reasoning in the Historical Sciences," Invited Speakers: Adrian Currie, Nora Mills Boyd, Max Dresow, and Meira Gold*

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