

Dr. Urmila Chadayammuri

60 Garden St, Cambridge, MA - 02138 · uchadayammuri@cfa.harvard.edu · milchada.github.io

EDUCATION

- | | | |
|--------------------|---|--------------------------------------|
| 2017 - 2021 | PhD Astronomy
Unravelling the Intra-Cluster Medium with Numerical Simulations and Multi-Wavelength Observations
Advisors: Daisuke Nagai (Yale) and Paul Nulsen (SAO) | Yale University,
New Haven, USA |
| 2015 - 2017 | MPhil & MA Astronomy | Yale University,
New Haven, USA |
| 2009 - 2013 | BSc (Hons) Physics
Thesis Advisor: Savvas Koushiappas | Brown University,
Providence, USA |

EMPLOYMENT

- | | | |
|-----------------------|---|---|
| 2021 - present | Postdoctoral Fellow
Observational and theoretical research in extragalactic astrophysics and cosmology with X-ray telescopes. | Center for
Astrophysics
Harvard &
Smithsonian,
Cambridge, USA |
| Mar - Jun 2020 | Data Analysis Consultant
Built a model to predict the spread of COVID-19 and wrote an explanation for the President of Argentina. Sponsored by the Inter-American Development Bank and the Ministry of Health of Argentina. | Tekal.ai,
Cambridge, USA |
| 2017-2018 | Graduate Writing Fellow
Developed and taught workshops for graduate students about communicating research to various audiences. | Yale University,
New Haven, USA |
| Aug - Dec 2017 | Student Liaison, Greenberg World Fellows Program
Organized events for education pioneer Lin Kobayashi and Member of European Parliament Annemie Turtelboom on issues of education, immigration and women in leadership. | Yale University,
New Haven, USA |
| 2015 - 2018 | Graduate Teaching Fellow
Attended lectures, held office hours and graded assignments for three undergraduate courses. | Yale University,
New Haven, USA |
| 2016 - 2018 | Staff Writer
Explained current research in astronomy, medicine and material science to a general audience. | Yale Scientific
Magazine, New
Haven, USA |

TEACHING EXPERIENCE

Graduate Teaching Assistant, Yale University

Fall 2017	Galaxies in the Universe
Fall 2016	Research Methods in Astrophysics
Spring 2016	Galaxies in the Universe

Lead Instructor, Yale Young Global Scholars Program

2016 - 2017	Applied Science and Engineering
2016	Technology, Innovation and Entrepreneurship
2017	Fundamentals of Mathematics and Science

Grader, Brown University

Spring 2013	Introduction to General Relativity
-------------	------------------------------------

Peer Tutor, Brown University

2010-2012	Introduction to Mechanics
	Introduction to Electricity & Magnetism
	Calculus I
	Calculus II

SELECTED PUBLIC TALKS

PBS NOVA: The Universe. Episodes on Black Holes and Cosmology. Streaming October 27, 2021.

NASA Data Challenge Explainer: The M87 Galaxy. <https://www.youtube.com/watch?v=-femHarhbKQ> July 2021.

"Working Scientist podcast: How films and festivals can showcase your science". Interview for Nature Podcast. Published June 11, 2020. <https://www.nature.com/articles/d41586-020-01724-8>

"What if the Universe weren't uniform?" Episode written for SciShow Space. Published Apr 7, 2020. <https://www.youtube.com/watch?v=YGVW4BaA0qA&t=67s>

Computational Cosmology: Testing theory in the era of big data. Invited talk at Lenovo Innovation Challenge, Supercomputing 2017, Denver, CO, USA.

AWARDS

2022	Smithsonian Scholarly Studies Award
2019	Fidelity Data Visualization Prize at MIT Reality Virtually Hackathon
2018	Chandra X-Ray Center Pre-Doctoral Fellowship
2017	Henry A Smith Fellowship in Astronomy, Yale University
2016	Bunker Fellow, Graduate School of Arts and Sciences, Yale University
2013	Smiley Award for Excellence in Astronomy, Office of the Dean, Brown University

- 2012 Undergraduate Teaching and Research Assistantship, Brown University
- 2011 Brown International Scholars Program Fellow
- 2009 Davis United World Scholars Program
- 2009 Harrison Family Presidential Scholarship

LANGUAGES

- Computer Python, C | Some SQL, HTML/CSS
- Human English, Russian, Malayalam, Hindi | Some German, French