

Shalini Kurinchi-Vendhan

computational astrophysics • galaxy evolution • supermassive black holes



Heidelberg, Germany



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Education

Ruprecht-Karls University of Heidelberg MASTER OF SCIENCE IN PHYSICS
October 2024 – July 2025 • Heidelberg, Germany
Advisor: Dr. Annalisa Pillepich

California Institute of Technology BACHELOR OF SCIENCE IN ASTROPHYSICS
September 2019 – June 2023 • Pasadena, California
Advisor: Professor Philip F. Hopkins
Earned a minor degree in English Language & Literature.

Research Experience

Max Planck Institute for Astronomy U.S. FULBRIGHT SCHOLARSHIP AWARD
September 2023 – July 2024 • Heidelberg, Germany
Advisor: Dr. Annalisa Pillepich
Supermassive Black Hole Feedback in Ram-Pressure Stripped
Jellyfish Galaxies in IllustrisTNG.

Harvard & Smithsonian Center for Astrophysics
June 2022 – August 2022 • Cambridge, Massachusetts
Advisor: Dr. Laura Brenneman & Dr. Francesca Civano
The Coevolution of Supermassive Black Holes and Galaxies with
the *Chandra* X-Ray Telescope.

École Polytechnique Fédérale de Lausanne
September 2022 – June 2023 • Lausanne, Switzerland
Advisor: Dr. Michaela Hirschmann
On the Origin of Star Formation Quenching in Early, Massive
Galaxies with IllustrisTNG.

Carnegie Observatories – Theoretical Astrophysics Center
June 2021 – August 2021 • Pasadena, California
Advisor: Dr. Andrew Benson
The Spherical Collapse of Dark Matter Halos with 3-D Numerical
Simulations and the Semi-Analytic Code *Galacticus*

Dark Cosmology Center – Niels Bohr Institute
June 2020 – August 2020 • Pasadena, California
Advisor: Dr. Michaela Hirschmann
The Role of AGN in Star Formation Quenching in Nearby Dwarf
Galaxies in IllustrisTNG with Synthetic Emission Line Models

Publications & Talks

[NASA/Harvard ADS](#)

Fellowships & Awards

- U.S. Fulbright Scholarship
- NSF Graduate Fellowship
- Margie Lauritsen Leighton Prize in Physics
- AAS Chambliss Prize
- Perpall Speaking Award

Science Communication

[space-themed children's
library storytime](#)

[storytelling for scientists](#)

[astronomy travel diaries
for classrooms](#)

[educational article about
jellyfish galaxies](#)

[astropoetry blog](#)



*Like art, cosmological
simulations tell a story by
allowing us to visualize how
the Universe came to be.*