

Sidhant Kumar Suar

✉ qgx5kn@virginia.edu

📖 NASA ADS

🌐 [sidvibn.github.io](https://github.com/sidvibn)

Education

PhD University of Virginia 2025 - 2030

Astronomy & Astrophysics

ADVISOR: *Prof. Zhi-Yun Li*

MSc University College London 2024 - 2025

Astronomy & Astrophysics

THESIS: *Energetic Events in Astrophysical Sources and Neutrino Emission*

ADVISOR: *Prof. Kinwah Wu*

Graduated with a UK Distinction

Honours BSc University of Toronto 2019 - 2023

Physics and Astronomy Specialist, Mathematics Minor

ADVISORS: *Prof. Yanqin Wu & Prof. Arun Paramakanti*

Graduated with a UofT High Distinction

Research Interests

Planetary and Stellar Dynamics, Formation and Evolution; Astrophysical Fluid Dynamics; High-Energy Astrophysics

Publications

First-Author:

Suar, S. K.; Lin, Z. D.; Li, Z. “Asymmetric Brightness Profiles of Class 0/I Disks: A Purely Geometrical Effect?”, 2026, in-prep

Suar, S. K.; Millholland, S. C. “Planetary Obliquity Excitation Through Pre-Main Sequence Stellar Evolution”, 2025, ApJ, 989, 111.

Awards and Honours

CITA Summer Undergraduate Research Fellowship

University of Toronto

APRIL 2023

Walter John Helm Scholarship in Astronomy and Astrophysics

University of Toronto

DECEMBER 2022

Innis College Alumni Association Scholarship

University of Toronto

OCTOBER 2022

Natalia Krasnopolskaia Summer Undergraduate Research Fellowship

University of Toronto ([link](#))

MAY 2022

Dean’s List Scholar

University of Toronto

JUNE 2021 - JUNE 2023

University of Toronto Scholar

University of Toronto

OCTOBER 2019

International Award for Young People (Bronze)

The Duke of Edinburgh's Award International Association

MARCH 2019

Presentations

Talk: **Sidhant Kumar Suar**, Dr. Kinwah Wu, Dr. Ellis R. Owen, (July 2025). *Galactic Scale Bubbles in Galaxies - Beyond the Standard Leptonic Scenario.*

National Astronomy Meeting, Durham University

Poster: **Sidhant Kumar Suar**, Dr. Janosz Dewberry, (August 2023). *Listening to Gas Giant Planets.*

CITA Research Fair, University of Toronto

Poster: **Sidhant Kumar Suar**, Dr. Keith Vanderlinde, (October 2022). *Characterization and Performance Testing of RFoF Units for the CHORD Telescope Array.*

Undergraduate Research Fair, University of Toronto

Conferences and Workshops

National Astronomy Meeting

Durham University

July 2025

Canadian Astroparticle Physics Summer School (invited)

Queen's University

May 2022

Outreach

AstroTours

University of Toronto

2022-2023

Volunteer Mentor

Center of Integrated and Sustainable Development

2019-Present

Volunteer Mentor

Kalinga Institute of Social Sciences

2017-Present

Programming Skills

Languages: Python, C/C++, Wolfram Mathematica, HTML/CSS, LaTeX

Astronomy Codebases & Packages: Athena++, RADMC-3D, aafragpy, naima, REBOUND/REBOUNDx, GYRE

Operating Systems: Windows & Linux (High-performance computing)