

Curriculum Vitae of Abhinav Jindal

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EDUCATION

Cornell University, Department of Astronomy and Space Sciences *Ithaca, NY*
Ph.D. – Astronomy Aug '16 – Present
Advisor: Dr. Alexander Hayes
Indian Institute of Technology, Guwahati *Guwahati, India*
B.Tech. – Engineering Physics Jul '12 – May '16

TEACHING EXPERIENCE

Cornell University; Teaching Assistant

- Astro 1101: From New Worlds to Black Holes (Head TA, Fall '17)
- Astro 1102: Our Solar System (Lab TA, Spring '17)
- Astro 2201: The History of the Universe (Spring '18)

RESEARCH EXPERIENCE

Graduate Research Assistant *Cornell University* Jan '17 – Present

Project: UV environments for Earth-like planets around F, G, K and M stars

- Working on simulating the climate and photochemistry for Earth-like planets with normal and eroded atmospheres around different star types.
- We use a coupled 1D radiative-convective atmosphere code for rocky exoplanets.

Project: Lithosphere and mantle convection of Venus

- Working on analysing length scales of tectonic deformations on Venus by studying undulations in canali altimetry profiles.
- Obtained length scales will be used to understand lithospheric structure and mantle convection on Venus.

Summer Research Intern *Thüringer Landessternwarte Tautenburg, Germany* May – Aug '15

Project: Detection probability of close-in Earth-like planets and fractal analysis of stellar light curves

Summer Research Intern *University of Porto, Portugal* May – Aug '14

Project: Validation of small exoplanets using the Rossiter-McLaughlin Effect

OUTREACH

Expand Your Horizons(EYH) *Cornell University* Mar '17 – Present

- Assisted in organizing the EYH astronomy workshop, which is a 1-day workshop for 7th-9th grade girls held annually at Cornell University.

Community Outreach *Cornell University* Nov '16 – Present

- Assisted in “Museum in the Dark”, hosted at the Museum of the Earth in Ithaca, NY, around Halloween, providing interactive physics and astronomy demos for local children.