

# Ishan Deore

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Recovering physics student.

Passionate about teaching, creative coding and science communication.

## SKILLS

- Scientific Computing
- Technical Writing
- Documentation
- Research and Research Reporting
- Teaching

## WORK EXPERIENCE

### Senior Consultant, Athena Education

Nov 2023 - Present

- Working with 30 students, 11 of whom have me as the principal consultant, to build a holistic profile for college applications. This involves engaging with stakeholders, strategic consulting regarding college and course selection, helping with capstone projects, motivating students to increase academic and professional engagements, conducting research to curate skill-building resources, and finding competitions for students, among other responsibilities.
- Streamlined feasibility checks (reduced capstone project proposals rejected citing feasibility issues by 30%).
- Implemented a system of parent updates and project briefs that preempt client concerns. This reduced escalations, reducing instances requiring leadership intervention by 14%.
- Conducted 2 month crash courses on space colonization and mathematical modelling
- Mentored 32 students with research projects
- Published 15 research papers

### Deputy Manager, Ashoka University | Office of Admissions

Aug 2022 - Nov 2023

- Oversaw the development and implementation of a new application portal
- Automate and streamline admissions processes
- Conduct basic analysis of testing metrics and demographic data
- Read applications and interview applicants to the undergraduate programme

### Freelance Math & Physics Tutor

Aug 2014 - Present

- Have tutored informally and professionally since high school
- Work with high-school & college learners on STEM education and college-level math & physics prep work
- Help final-year high-school students prepare for entrance exams and apply to universities

### Research Assistant, University of Cincinnati

Aug 2015 - May 2019

- Debugged fortran code simulating collisions of axion stars
- Spotted and discarded non-physical results output by the simulation or PDE solver

## **Undergraduate Teaching Assistant, University of Cincinnati**

Jan 2014 - Aug 2017

- Conducted problem-solving sessions thrice a week
- Guided and supervised lab work
- Graded assignments, tests, and quizzes. Proctored exams
- Held daily office hours

## **EDUCATION**

- **Yates Fellow**, Computational Physics | University of Cincinnati | *Did not complete*  
PhD program guided by Prof. Richard Gass.
- **Bachelor of Science**, Physics | University of Cincinnati | 2018 (3.8/4.0 cumulative GPA)
- Relevant Coursework: Undergraduate physics coursework with a strong background in mathematics including linear algebra, differential equations and numerical analysis.
- **Associate of Science**, Mathematics | University of Cincinnati | 2018

## **SCHOLARSHIPS, PUBLICATIONS & AWARDS**

- Chosen for the Yates Fellowship, a PhD program guided by Prof. Richard Gass in Computational Physics | *Did not complete*
- Dean's List | 2016
- Received merit-based UC Global Outreach Scholarship for maintaining 3.8 cumulative GPA and 15 hours of community service per semester | 2014 - 2018
- I.Y. Deore and R. Gass, (*submitted, pending review*) : Alleviating the Hubble tension with colliding Dark Matter Axions | 2020

## **EXTRACURRICULARS & VOLUNTEER WORK**

- Organizer, *Food not Bombs* (Cincinnati Chapter) | 2016 - 2019
- Cook, *Food not Bombs* (Lexington Chapter) | 2016 - 2019
- Trip Coordinator, UC Mountaineering Club | 2015 - 2018
- Volunteer tutor, *Cincinnati Public Schools* | 2014 - 2018
- Community Gardener, *Cincinnati Parks* | 2014 - 2018
- Vice President, UC Astronomy Club | 2016 - 201
- Webmaster, UC Indian Students Association | 2015 - 2016

## **LANGUAGES**

English, Hindi, Marathi