

ARCHANA DOBARIA

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Education

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| May 2018 | San Francisco State University, SF
Master of Science in Astronomy
Advisor: Dr. Kim Coble |
| May 2015 | Rutgers University, New Brunswick NJ
Bachelor of Science in Astrophysics |
| January 2013 | Middlesex County College, Middlesex NJ
Associate in Science in Physics |

Work Experience

Research Assistant: San Francisco State University, SF

Advisor: Dr. Kim Coble

- My research is based on data collected in an introductory astronomy class at a minority-serving university in Chicago.
- The students in the class completed an observing project that involved planning observations, proposal writing and peer-review.
- I analyzed qualitative data in the form of students' reflection essays and interviews, performing iterative thematic coding, tallying frequencies of responses, and summarizing the results.

Teaching Assistant: San Francisco State University, SF

Classes taught:

Physics I Lab (F/2016, SP/2017, SM/2017)

- Assisting student in achieving better understanding of basic principles of physics.
- Applying what they learn in class to practical experiment and giving them understanding about particular theory.

Astronomy Lab(SP/2017)

- Assisting students with regular Astronomy lab work for example, reading phases of moons in real time, reading sky, path of the sun etc.
- Conducting different experiment related to the course work learned in lecture class.
- Operating planetarium and showing student what we see in sky and why we see it.

Other Activities

Teaching Equity Workshop at San Francisco State University

- Open discussion about topics related to teaching and education research.

Technical Skills

Languages: Python, IDL, MATLAB, LaTeX

Operating Systems: Windows, Linux, Mac

Software: Microsoft Office: Word, Excel, Outlook, PowerPoint

Relevant Coursework

Graduate Courses:

- Stellar Astronomy
- Observational techniques
- Classical mechanics
- Cosmology
- Radiative processes

Physics Courses:

- Modern Physics
- Mechanics I & II
- Quantum Mechanics
- Electromagnetism I & II
- Modern Instrumentation
- Advanced Calculus for Eng
- Calculus I to IV
- Linear Algebra

Astronomy Courses:

- Principles of Astro I & II
- Obs. Optical Astronomy
- Radio Astronomy
- Intro to Cosmology
- Galaxy Formation
- Exoplanet