



Justin Bopp

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EDUCATION

Physics - Bachelor of Science

California State University, Stanislaus

05/2023

Turlock, CA

Astrophysics - Masters of Science

City University of New York

08/2023 – 05/2025

New York, NY

PROFESSIONAL EXPERIENCE

Research Intern

Dr. Brian Morsony

05/2022 – 08/2023

Turlock, CA

- Rubin Observatory Data Preview Delegate
 - adapted a photometric redshift estimator to be used in the Rubin database
 - made program to match host galaxies to detected transients
- Fitting Observed Abundances to Metals from Supernovas (FOAMS)
 - obtained metallicity data from APOGEE survey of Milky Way stars
 - converted the abundances from normalized number abundances to the mass abundances needed to run through the FOAMS program
 - determined Core-Collapse to Type-Ia supernova ratio for large sample of Milky Way stars

PRESENTATIONS

"Using Photometric Redshifts to Identify Host Galaxies in the Rubin Data Preview"

Poster Presentation at APS April Meeting 2023

04/2023

Minneapolis, MN

"Using Photometric Redshifts to Identify Host Galaxies in the Rubin Data Preview"

Poster Presentation at the 241st AAS meeting

01/2023

Seattle, WA

"Determining PhotoZ in Rubin Science Platform dpo.2"

CSU/Rubin Data Summit 2022

07/2022

San Luis Obispo, Ca

SKILLS

Data Science

Github, Python, Pandas, Numpy, Astropy, Astroquery, ADQL, Machine Learning, Matlab, Rubin Data Platform and science pipelines

Microsoft Office

Word, Excel, Powerpoint, Outlook

COURSES

Using Python and Astropy for Astronomical Data Analysis

AAS

01/2023

Seattle, WA

- Python tools for astronomical data analysis and visualization, with the focus primarily on UV, Optical, and IR data

Discovery Science Center Summer School for Matter at Extreme Conditions in the Laboratory and the Cosmos

Center for Mass at Atomic Pressure

08/2022

Rochester, NY

- crash course in magnetohydrodynamics
- jet and particle simulations

LEADERSHIP AND OUTREACH

Society of Physics Students

2021 – 2023

- Chapter President
- Astronomy night 2022 Volunteer - Led small telescope observing session with 150+ participants

4-H

2002 – 2012

- Chapter Offices held (President/VP/Treasurer/Historian)
- Stanislaus County “All-Star” - 2010
- California 4-H Ambassador - 2012
 - Planned, organized and ran California 4-H State Leadership Conference, 300 4-h middle/high school age kids
- 4x Gold Medal -California State 4-H Public Speaking Contest
- California State Dairy Cattle Judging Team - 2011
- Gold medal – State 4-H Record Book contest - 2012

Future Farmer of America

2008 – 2012

- Chapter Vice President – 2012
- Member – Dairy Cattle Judging Team 2012

National Holstein Association

2006 – 2012

- National Junior Dairy Jeopardy Champion – 2007
- National Junior Dairy Knowledge Bowl Champion – 2008
- National Senior Dairy Knowledge Bowl Champion – 2009
- National Intermediate Dairy Jeopardy 3rd place – 2010