Raphael Baer-Way

Last update: July 29, 2016

Contact Information

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Research Background

- **Undergraduate Researcher**:Light Echos,Supernovae Variable stars.

Education

University of California, Berkeley, Berkeley, CA 2018–2021 (expected)

- B.A. in Department of Astrophysics and Physics, GPA: **3.864/4** – via 119 credits.
- AResearch dvisor: Prof. Alex Filippenko.

Technical Skills

- *Programming Languages*: Python,HTML.
- *Technical Softwares*: DS9,Iraf, Astropy.

Research Experience

- **Variable Star Analysis** 2020-2021
  Did Analysis of M3 Temperature and O-C Diagrams for AAS Poster ++.
  - Won Chambliss Award and contributed to in-progress paper on period-detecting algorithm.
- **HST Supernovae Analysis** 2020-2021
  Performing photometry and finding 28 supernovae from HST WFC3 images++.
  - Paper in progress on all SN found, Paper published on SN2015ap
- **Light Echo Analysis** 2021
  Analyzing light echo SN2012AW and its evolution over time
  - Paper in progress
- **Nickel Observer** 2019-2021
  Checked out Nickel Observer, observed 10+ times++.
  - Analyze Nickel and KAIT images for Zwicky Transient Facility

Selected Publications

1. **Aryan** *et. al,*. Progenitor mass constraints for the type Ib intermediate-luminosity SN 2015ap and the highly extinguished SN 2016baut". *Monthly Notices of the Royal Astronomical Society*, 2021.
2. **Jennings** *et. al,*. New Four-Band Photometry of RR Lyrae Stars in M3". *American Astronomical Society meeting 238*, 2021.

Honors and Awards

- ***Dean's List*** at UC Berkeley. 2018
- ***Award for Innovation and Creativity in Science*** from Rochester Institude of Technology. 2017
- ***Chambliss Astronomy Achievement Student Award*** from American Astronomical Society. 2017

References

Dr. **Alex Filippenko**
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