

ETHAN SAVITCH

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EDUCATION

University of Rochester

December 2020

B.S. in Physics & Astronomy with a Minor in Mathematics

Cum Laude with High Distinction

Overall GPA: 3.73/4.00

RESEARCH INTERESTS

Large scale numerical computation and astrophysics; including cosmology, galaxies, and accretion

RESEARCH EXPERIENCE - UNIVERSITY OF ROCHESTER

Research Assistant

January 2019 - Present

Supervisors: Prof. Adam Frank and Dr. Jonathan Carroll-Nellenback

Rochester, NY

· Project

January 2019 - March 2021

Triggering A Climate Change Driven “Anthropocene”: Is It Common Among Exocivilizations?

- Coupled an Energy Balance Model written in Fortran to a modified predator prey model to investigate the theory that Anthropocenes are common among intelligent civilizations.

· Project

March 2020 - Present

Improving the Probability Distribution of Interstellar Probes in a Galactic Context

- Improving their numerical model for the settlement of a galaxy by space-faring civilizations by making variables such as the probe ranges/velocities normally distributed rather than constant.

JOURNAL ARTICLES

- [1] **E. Savitch**, A. Frank, J. Carrol-Nellenback, J. Haqq-Misra, A. Kleidon, and M. Alberti, *Triggering a Climate Change Dominated “Anthropocene”: Is It Common Among Exocivilizations?*, The Astronomical Journal, vol. 162, no. 5, 2021, p. 196, doi:10.3847/1538-3881/ac1a71

PRESENTATIONS

- [1] **E. Savitch**, A. Frank, J. Carrol-Nellenback, and J. Haqq-Misra, *Climate Change Driven “Anthropocenes”: Are They Common Among Exo-Civilizations?*; Presented at the TechnoClimes meeting; 2020 Aug 3-7, published online at <https://doi.org/10.1002/essoar.10503860.4> (poster)
- [2] **E. Savitch**, A. Frank, J. Carrol-Nellenback, and J. Haqq-Misra, *Climate Change Driven “Anthropocenes”: Are They Common Among Exo-Civilizations?*; Presented at the University of Rochester Journal Club, November 2020.

WORK EXPERIENCE

University of Rochester

September 2017 - May 2020

Teaching Assistant (TA)

Rochester, NY

- CSC 171: Introduction to Computer Science (September 2017 - December 2017)
- PHY 122: Electricity and Magnetism (September 2019 - December 2019)
- PHY 121: Mechanics (January 2020 - May 2020)

C.E.K Mees Observatory

June 2017 - June 2020

Student Tour Guide

Rochester, NY

- Led free tours of Mees Observatory to help foster community outreach
- Trained in proper operation of the 24-inch computerized Cassegrain telescope

COMPUTER/HARDWARE SKILLS

Computer Languages	Java, Python, Fortran 77/90, Mathematica, UNIX shell scripting (bash)
Hardware	PC assembly and basic mechanical fabrication
Document Editing	L ^A T _E X, Microsoft Office, Google Docs/Sheets/Slides
Operating Systems	Windows 10, Linux
Tools	Vim, Emacs

PROFESSIONAL MEMBERSHIPS

- American Astronomical Society (AAS)
- American Physical Society (APS)
- Sigma Pi Sigma, National Physics Honor Society ($\Sigma\Pi\Sigma$)

EXTRACURRICULAR ACTIVITIES

University of Rochester DJ Club	January 2017 - January 2020
<i>Executive Board: Secretary</i>	<i>Rochester, NY</i>

- Led efforts to fund and to organize DJ workshops for all students.
- Managed DJ Club Sound Cloud page to promote club's brand and to publicize club's services

University of Rochester Ice Hockey Team	September 2016 - January 2019
<i>Student Athlete</i>	<i>Rochester, NY</i>

- Played forward for our university's club ice hockey team
- Competed in Upstate New York Club Hockey League (UNYCHL)

Miscellaneous Interests

- Volunteer projects include children's camp in Costa Rica, coastal clean-up in Australia, and packing and distribution of free meals to the elderly in Pennsylvania
- Enjoy listening/playing/producing music, snowboarding and stargazing/astrophotography
- PADI certified for open water SCUBA