

SEAN MACBRIDE

Email ◇ GitHub ◇ LinkedIn ◇ Personal website ◇ (802) 922 4673

EDUCATION

University of Michigan, Ann Arbor Michigan Ph.D in Physics	Aug 2022 - Present
Wheaton College, Norton Massachusetts B.A. in Physics, Honors. Minor in Astronomy	Aug 2016 - May 2020

RESEARCH

University of Michigan Graduate Student Research Assistant	Jan 2023 - Apr 2023 Prof. Keith Riles
University of Michigan-Southwest Research Institute Graduate Observer - NASA LUCY	Feb 2023 David Gerdes (UM) & Marc Buie (SwRI)
Massachusetts Institute of Technology Technician - LLAMAS	Nov 2020 - Jul 2022 Gábor Fűrész (PI) & Mark Egan (Engineering supervisor)
Massachusetts Institute of Technology Research Assistant - STARSPOOT	May 2021 - Nov 2021 Gábor Fűrész (MIT) & Jennifer Burt (NASA-JPL)
University College London & Wheaton College Honors Thesis Student	May 2019 - Jul 2020 Professor Amélie Saintonge (UCL) & Professor Dipankar Maitra (WC)
University College London Group Lead	Jan 2019 - Mar 2019 Professor Thanh Nguyen
Rutgers University New Brunswick REU Research Assistant	May 2018 - Aug 2018 Professor Carlton Pryor
Wheaton College Student astronomy projects	Aug 2017 - Dec 2018 Professor Dipankar Maitra
Project P.A.N.O.P.T.E.S. Student Collaborator	Sep 2017 - Dec 2018 James Synge (Google Cambridge)
NASA Langley Research Center Summer Intern	May 2017 - Aug 2017 Dr. Brian Walsh
Wheaton College Undergraduate Research Assistant	Dec 2016 - May 2017 Professor John Collins

TEACHING

University of Michigan Physics Department Graduate Student Instructor	Aug 2022 - Dec 2022 Ann Arbor, MI
Wheaton College Physics Department Teaching Assistant	Aug 2018 - Dec 2019 Norton, MA
Wheaton College Physics Department Physics Tutor	Aug 2018 - Dec 2018 Norton, MA

OUTREACH

Wheaton College Astronomy Department
Observatory Guide

Aug 2016 - May 2020
Norton, MA

Best Buddies
Bud

Aug 2016 - Apr 2017
Norton, MA

DEPARTMENT SERVICE

- Member of UM physics graduate council from 2022 - present.
- Lead organizer and host of physics graduate student symposium in 2023, a weekly speaker series highlighting research projects from several departments in the University of Michigan.
- Member of UM physics DEI committee from 2022 - present. Led student spotlight project to highlight struggles of successful physics undergraduates to increase participation in introductory physics tutoring sessions.
- Member of APS chapter at UM from 2022 - present.
- Member and peer advisor of the Wheaton College physics club from 2016-2020.

AWARDS

- Awarded the Wheaton Centennial Grant for tremendous academic promise
- Awarded the Boggess Family Foundation scholarship for achievements in physics

PRESENTATIONS

Invited talks

11/2021 LLAMAS Assembly Integration and Testing, Wheaton College, Norton MA

Public/outreach talks

05/2020 Undergraduate honors thesis research, Wheaton College, Virtual

05/2020 Undergraduate honors thesis research, University College London, Virtual

09/2018 REU research on dwarf satellite galaxies, Wheaton College, Norton MA

08/2018 REU research on dwarf satellite galaxies, Rutgers University, New Brunswick NJ

Poster Presentations

06/2019 REU research on dwarf satellite galaxies, 234th AAS Meeting, St. Louis MO

03/2019 Magnetic nanoparticle research study, physics department poster symposium, London UK

08/2018 REU research on dwarf satellite galaxies, Rutgers University, New Brunswick NJ

04/2018 Project P.A.N.O.P.T.E.S., Northeast Astronomy Forum, Suffern NY

PUBLICATIONS

Papers

1. MacBride, Sean Patrick. (2020, May 10). Characterizing the Dust and Cold-Gas Content of Nearby Star-Forming Galaxies. Wheaton College Digital Repository, 2020.