

# SEAN MACBRIDE

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

## EDUCATION

---

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

## RESEARCH

---

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

## TEACHING

---

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

## 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.