

MAYA FIELDS

Department of Climate and Space Sciences and Engineering University of Michigan
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STATEMENT OF PURPOSE - OBJECTIVES

I am interested in understanding the impacts of the changing climate on the cryosphere, capabilities of current atmospheric and oceanic global climate models in projecting future polar conditions, ice shelf surface processes and fracturing, ice/atmosphere interactions, and formation of icy moons.

DEGREES

Doctor of Philosophy, Climate and Space Sciences and Engineering **May 2026**
University of Michigan, Ann Arbor, MI
Advisors: Jeremy Bassis and Mark Moldwin
GPA: 4.00 (4.00)

Masters of Science, Climate and Space Sciences and Engineering **May 2023**
University of Michigan, Ann Arbor, MI
GPA: 4.00 (4.00)

Bachelor of Science, Atmospheric and Oceanic Science **May 2021**
University of Maryland, College Park, MD
GPA: 3.602 (4.00)

Bachelor of Science, Astronomy **May 2021**
University of Maryland, College Park, MD
GPA: 3.602 (4.00)

HONORS AND AWARDS

AGU Outstanding Presentation Award	January 2024
AGU Cryosphere DEI Travel Grant	December 2023
University of Michigan Regents Fellowship	August 2021 – August 2022
College Park Scholars Outstanding Achievement Award	October 2019
Ernest F. Hollings Undergraduate Scholarship	April 2019

RESEARCH EXPERIENCE

Jeremy Bassis' Vintage Glaciology Group	August 2022 – Present
Graduate Researcher, University of Michigan, Ann Arbor, MI	
Mark Moldwin's Magnetism Laboratory (MagLab)	August 2022 – Present
Graduate Researcher, University of Michigan, Ann Arbor, MI	
Dr. Cheng Li's Planetary Sciences Laboratory	August 2021 – August 2023
Graduate Student Researcher, University of Michigan, Ann Arbor, MI	
Detection and EUV Flare Tracking (DEFT)	May 2020 – May 2021
Researcher, University of Maryland, College Park, MD	
Gemini Atmospheric Survey Experiment (GASEx)	November 2018 - May 2021
Researcher, University of Maryland, College Park, MD	
NASA Plume Research	October 2017 – November 2018
Research Assistant, University of Maryland, College Park, MD	

TEACHING EXPERIENCE

Graduate Student Instructor for CLIMATE105: Our Changing Atmosphere	January 2024 – May 2024
University of Michigan, Ann Arbor,	
Grader for CLIMATE321: Earth and Space Systems	January 2022 – May 2022
University of Michigan, Ann Arbor, MI	

VOLUNTEER EXPERIENCE

Climate and Space Science and Engineering Volunteer Committee	August 2023 – Present
Student Representative, University of Michigan, Ann Arbor, MI	
Climate and Space Science and Engineering Curriculum Committee	August 2023 – Present
Student Representative, University of Michigan, Ann Arbor, MI	
President of Graduate and Undergraduate Student Organization	August 2022 – Present
University of Michigan, Ann Arbor, MI	

SCHOLARLY PRESENTATIONS AND POSTERS

ORAL

Fields, M. and Bassis, J. N., Moldwin, M. B., & Kachuck, S. B. (2023). Forecasting the onset of surface melt over Antarctic ice shelves using CMIP6 models. AGU23

POSTERS

Fields, M. (2020, January 12-16). Life and DEFT: Space Weather Preparedness. *Virtual American Meteorological Society (AMS) Conference.*