815-341-4058 ejwllms@mit.edu emlyjwllms.github.io

# **EDUCATION**

## Massachusetts Institute of Technology, Cambridge, MA

PhD, Computational Science and Engineering, expected June 2026.

Dissertation: "Stochastic integration for forward analysis of linearized chaotic dynamical systems."

Advisor: Prof. David Darmofal

## Massachusetts Institute of Technology, Cambridge, MA

MS, Aeronautics and Astronautics, June 2023.

Thesis: "Assessment of wall-modeled large-eddy simulation for high-speed flows and novel modeling strategies."

Advisor: Prof. Adrián Lozano-Durán

## University of Illinois Urbana-Champaign, Champaign, IL

BS, summa cum laude, Aerospace Engineering, June 2021.

Minor: Atmospheric sciences

Advisors: Prof. Andrés Goza and Prof. Marco Panesi

#### RESEARCH EXPERIENCE

Pacific Northwest National Laboratory, Seattle, WA Visiting Researcher, May 2024 to September 2024

Massachusetts Institute of Technology, Cambridge, MA

Department of Energy Computational Science Graduate Fellow, September 2022 to Present

Massachusetts Institute of Technology, Cambridge, MA Graduate Research Assistant, September 2021 to September 2022

University of Illinois Urbana-Champaign, Champaign, IL Undergraduate Research Assistant, January 2020 to June 2021

#### TEACHING EXPERIENCE

### Head Engineering Learning Assistant, University of Illinois

Engineering Orientation (Gretchen Forman), January 2019 to May 2021

#### **Course Developer & Instructor,** University of Illinois

Introduction to CubeSat Design & Development (Laura Gerhold), January 2020 to May 2020

### Teaching Assistant, University of Illinois

Grainger First-Year Experience Leadership Scholars (Angie Wolters), January 2020 to May 2021

#### Course Assistant, University of Illinois

Introduction to Programming for Engineers (Neal Davis), August 2018 to May 2021

## **Lead Tutor,** University of Illinois

Center for Academic Resources in Engineering (Dana Tempel), August 2019 to May 2021

## **COMMUNITY LEADERSHIP**

**President,** MIT Department of Aeronautics and Astronautics Graduate Women in Aerospace Engineering, January 2022 to December 2022

**Social Committee Chair,** MIT Department of Aeronautics and Astronautics Aerospace Computational Design Laboratory, August 2021 to May 2022

**President,** University of Illinois Department of Aerospace Engineering Women in Aerospace, August 2019 to May 2021

## **HONORS & AWARDS**

Graduate Student Leadership Award, MII	2023
AIAA New England Community Award, MIT	2023
Vickie Kerrebrock Award, MIT	2022
DOE Computational Science Graduate Fellowship (CSGF)	2022
NSF Graduate Research Fellowship Program (GRFP) - Declined	2022
DOD NDSEG Fellowship - Declined	2022
Gardner Fellowship, MIT	2022
AIAA Aviation Week Network 20 Twenties, UIUC	2021
University of Illinois Dean's List	2021
James Scholar Honors Program, UIUC	2021
Grainger Engineering Knight of St. Patrick, UIUC	2021
University of Illinois Tutor of the Year	2021
University of Illinois Senior 100 Honorary	2021
NSF Graduate Research Fellowship Program (GRFP) - Honorable Mention	2021
Scott R. White Aerospace Engineering Visionary Scholarship, UIUC	2020
Dale Margerum Memorial Award, UIUC	2020
Philip Lazzara Memorial Scholarship, UIUC	2020
Boeing Women in Engineering Scholarship, UIUC	2018
Illinois Space Grant Consortium (ISGC) Scholarship, UIUC	2018
GE Women's Network Scholarship, UIUC	2018
Aerospace Department Academic Scholarship, UIUC	2018
Ruth and Harold Hayward Tau Beta Pi Scholarship, UIUC	2018
H. S. Stillwell Memorial Scholarship, UIUC	2018
Illinois Engineering Achievement Scholarship, UIUC	2017
Turley Engineering Scholarship, UIUC	2017
MSCI Central States Chapter Scholarship	2017