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

# **EDUCATION**

### Massachusetts Institute of Technology, Cambridge, MA

PhD, Computational Science and Engineering, expected December 2026.

Thesis: Stochastic methods for model reduction of multiscale chaotic 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, Aerospace Engineering, with Highest Honors, 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 Present

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

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

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

# **HONORS & AWARDS**

| 2023 |
|------|
| 2022 |
| 2022 |
| 2022 |
| 2022 |
| 2021 |
| 2021 |
| 2021 |
| 2020 |
|      |