

Emily Williams

✉ ejwllms@mit.edu

🌐 emlyjwllms.github.io

EDUCATION

Massachusetts Institute of Technology (MIT)	Sep 2021 – June 2026
MS/PhD in Aeronautics and Astronautics	GPA: 5.00 / 5.00
University of Illinois at Urbana-Champaign (UIUC)	Aug 2017 – May 2021
BS with Highest Honors in Aerospace Engineering	GPA: 3.94 / 4.00

RESEARCH EXPERIENCE

Computational Turbulence Group, Dr. Adrián Lozano-Durán (MIT)	Summer 2021 – Present
Numerics and Unsteady Flows (NUF) Group, Dr. Andrés Goza (UIUC)	Summer 2020 – Spring 2021
Center for Hypersonics & Entry Systems Studies (CHESS), Dr. Marco Panesi (UIUC)	Spring 2020 – Spring 2021

TEACHING EXPERIENCE

ENG 100: Engineering Orientation (UIUC)	Spring 2019 – Spring 2021
AE 199 SAT: Introduction to CubeSat Design & Development (UIUC)	Spring 2020
ENG 177: Grainger First-Year Experience (GFX) Leadership Scholars (UIUC)	Spring 2020 – Spring 2021
CS 101: Introduction to Programming for Engineers (UIUC)	Fall 2018 – Spring 2021

PROFESSIONAL EXPERIENCE

Boeing Research & Technology, Graduate Researcher (St. Louis, MO)	Summer 2022
Boeing Defense, Space Electronics Product Design Engineering Intern (El Segundo, CA)	Summer 2020, Summer 2021
GE Aviation, Product Operations Engineering Intern (Cincinnati, OH)	Summer 2018

COMMUNITY INVOLVEMENT

Graduate Women in Aerospace Engineering (GWAE), President (MIT)	Fall 2021 – Present
Aerospace Computational Design Lab (ACDL), Social Committee Chair (MIT)	Fall 2021 – Present
Center for Academic Resources in Engineering (CARE), Lead Tutor (UIUC)	Fall 2019 – Spring 2021
Women in Aerospace (WIA), President (UIUC)	Fall 2017 – Spring 2021

HONORS & AWARDS

Gardner Fellowship	2022	Boeing Women in Engineering Scholarship	2018
AIAA Aviation Week Network 20 Twenties	2021	Illinois Space Grant (ISGC) Scholarship	2018
James Scholar Honors Program	2017 - 2021	GE Women's Network Scholarship	2018
University of Illinois Dean's List	2017 - 2021	AE Dept Academic Scholarship	2018
Grainger Engineering Knight of St. Patrick	2021	Hayward Tau Beta Pi Scholarship	2018
University of Illinois Tutor of the Year	2021	Grainger Scholarship for Continuing Students	2018
Senior 100 Honorary	2021	H.S. Stillwell Memorial Scholarship	2018
NSF GRFP Honorable Mention	2021	Illinois Engineering Achievement Scholarship	2017
Scott R. White AE Visionary Scholarship	2020	Turley Scholarship	2017
Dale Margerum Memorial Award	2020	MSCI Central States Chapter Scholarship	2017
Philip Lazzara Memorial Scholarship	2020		

POSTERS & PRESENTATIONS

Williams, E., Lozano-Durán, A., "Error Scaling of Wall-Modeled Large-Eddy Simulation of Compressible Wall Turbulence," American Physical Society Division of Fluid Dynamics, November 2021.

Williams, E., Ling, Y., Arranz, G., and Lozano-Durán, A., "Numerical Schlieren of the X-59 QueSST," American Physical Society Division of Fluid Dynamics Gallery of Fluid Motion, November 2021.

Ling, Y., **Williams, E.**, Arranz, G., and Lozano-Durán, A., "Can the X-Wing Survive the Reentry to Dagobah?" American Physical Society Division of Fluid Dynamics Gallery of Fluid Motion, November 2021.

Williams, E., Sharma, M.P., Venturi, S., and Panesi, M., "Relation of Dissociation Rates to the Centrifugal Barrier," University of Illinois Undergraduate Research Symposium, April 2020.