

LUCAS HORNUNG

Email ◇ (281)709-8602 ◇ LinkedIn

EDUCATION

University of California Davis

PhD, Atmospheric Science

Davis, CA

09/2025 - Present

Long Island University - Post

B.S. Mathematics; B.S. Computer Science

Brookville, NY

09/2022 - 05/2025

RESEARCH EXPERIENCE

Brookhaven National Laboratory

Cloud Process Group Intern

Upton, NY

06/2025 - 08/2025

- Funded by DOE Office of Science's Office of Workforce Development for Teachers and Scientists
- Advisors - Drs. Tao Zhang and Yangang Liu
- Project Title - Exploring collision-coalescence in a turbulent entrainment-mixing environment

Brookhaven National Laboratory

Cloud Process Group Intern

Upton, NY

06/2024 - 08/2024

- Funded by DOE Office of Science's Office of Workforce Development for Teachers and Scientists
- Advisors - Drs. Yangang Liu and Tao Zhang
- Project Title - An improved understanding of the collision coalescence process and its parametrization in cloud-resolving models

VOLUNTEER/LEADERSHIP EXPERIENCE

Atmospheric Radiation Measurement (ARM)

Summer School Attendee

Huntsville, AL

05/2025

- Funded by DOE ARM User Facility to attend ARM 2025 Summer School: Open Science in the Forest

American Meteorological Society (AMS)

Student Conference Planning Committee (SCPC) and Annual Meeting Volunteer

New Orleans, LA

01/2025 - Present

- Assisting SCPC chairs with the planning of the 2026 AMS Student Conference
- Provided technical support for presenters and committee chairs during the 2025 AMS Annual Conference

The Global Partnerships Forum at the United Nations

Student Researcher and Editor

New York, NY

07/2024 - 09/2024

- Worked in a small team of students from Long Island University to market, construct, and write an e-book titled "Vision for the Future"
- Honored at the Agents of Change Award Ceremony during the UN General Assembly in September 2024

China-US University Tennis Invitational Tournament

Player and Ambassador

Shanghai, China

08/2024

- One of eight U.S. college tennis players selected to represent the United States and NCAA tennis at the China-US University Tennis Invitational Tournament
- Competed against college tennis players from universities across Shanghai in exhibition style play and learned about Chinese culture and history through a guided cultural exchange

The White House Experience at Long Island University

Docent and White House Simulation Facilitator

Brookville, NY

01/2024 - 05/2024

- Provided middle and high school students from across Long Island a tour of one of only four White House replicas in the world
- Facilitated a presidential briefing simulation about climate change and educate students on civic responsibility and American democracy

Student Conservation Association (AmeriCorps)

United States Forest Service Trail Technician

Winthrop, WA

06/2023 - 08/2023

- Collaborated with various departments within the U.S. Forest Service to complete ground-level conservation projects in the Methow Valley Ranger District of the Okanogan-Wenatchee National Forest
- Utilized mechanized, non-mechanized, and pyrotechnical equipment to improve over 170,000 ft. of recreational trails in both wilderness and front-country areas

Long Island University NCAA D1 Men's Tennis Team

Brookville, NY

Student Athlete

09/2022 - 05/2025

- Play against schools across the nation, traveling weekly to regional schools such as the US Naval Academy and MIT
- Planned and coordinated two annual beach cleanups service projects on Fire Island National Shoreline

HONORS AND AWARDS

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| ◦ Scholar-Athlete of the Year, Northeast Conference | 2025 |
| ◦ Male Scholar-Athlete of the Year, Long Island University Athletics | 2025 |
| ◦ Men's Tennis Shark Spirit Award, Long Island University Athletics | 2023,25 |
| ◦ Men's Tennis Scholar Athlete, Intercollegiate Tennis Association (ITA) | 2023,24,25 |
| ◦ Dean's Scholar, Long Island University | 2023,24,25 |
| ◦ Hamilton Blum Memorial Scholarship, Long Island University | 2024 |
| ◦ Segal Educational Award, AmeriCorps | 2023 |

PRESENTATIONS

- | | |
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| ◦ FGSAMP Scientific Computing Camp, Remote | 2025 |
| ◦ Long Island University Honor's College Conference, Brooklyn, NY | 2025 |
| ◦ Department of Energy, RENEW Internship Program, Student Panel, Upton, NY | 2024 |
| ◦ Department of Energy, Ignite Off Presentation Competition National Semi-Finals, Upton, NY | 2024 |
| ◦ Brookhaven National Lab, Rising STEM Program, Student Speaker Panel, Upton, NY | 2024 |

PROFESSIONAL ORGANIZATIONS

- American Meteorological Society
- European Geophysical Union

ADDITIONAL INFORMATION

- U.S. and German Citizen