

Elizabeth Spaulding

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EDUCATION	University of Colorado Boulder Ph.D. in Computer Science Advisor: James H. Martin	May 2025 (expected)
	University of Nebraska-Lincoln B.S. in Mathematics Minors in Computer Science, Spanish GPA: 4.0/4.0	May 2019
HONORS AND AWARDS	NASA Nebraska Space Grant Fellowship • Competitive research grant for research in STEM fields	August 2017
	Dean's List, University of Nebraska-Lincoln	August 2015 - May 2019
	High Scholar, University of Nebraska-Lincoln • Award given to students in the top 10% of their class	August 2015 - May 2019
	Undergraduate Creative Activities and Research Experience • University of Nebraska-Lincoln UCARE grant for undergraduate research	August 2016
	University of Nebraska Honors Program	August 2015 - May 2019
	University of Nebraska Regents Scholarship • Full tuition scholarship to UNL	August 2015
EXPERIENCE	Graduate Teaching Assistant CU-Boulder Department of Computer Science <i>CSCI 1300: Starting Computing</i> • Led weekly recitation, answered student questions, and graded students' homework • Held weekly office hours and held interview grading 3 times a semester • Created and reviewed homework problems	August 2019 - Present
	Undergraduate Researcher UNL Department of Mechanical and Materials Engineering <i>Theoretical and computational studies of wake turbulence</i> Advisors: Dr. Jae Sung Park, Dr. Adam Larios • Funded by NASA Nebraska Space Grant Fellowship • Studied theoretical fluid dynamics with an emphasis on boundary layer theory and flow separation • Modeled fluid flow in Matlab and FEniCS	August 2017 - May 2019
	Learning Assistant UNL Department of Mathematics <i>College Algebra and Trigonometry</i> • Guided students' learning by answering relevant questions and encouraging mathematical discussion • Modeled the approach of a successful math student	August 2017 - December 2017

Undergraduate Researcher August 2016 - May 2017
 UNL Department of Special Education and Communication Disorders
The effect of visual context on the perception of sinusoidal speech
 Advisor: Dr. Thomas Carrell

- Funded by UNL Undergraduate Creative Activities and Research Experience
- Designed experiment to test speech perception with visual context

SYNERGISTIC ACTIVITIES

UNL Aerospace Club - Rocketry Team August 2016 - May 2019

- Design and manufacture high-power rocket according to specifications set by competition each year
- Research relevant concepts in aerodynamics, physics, and fluid dynamics to optimize rocket design
- Design and program relevant software to specifications set by competition each year

UNL Aerospace Club - Treasurer May 2018 - May 2019

- Manage funds from different sources for five different teams in club
- Design and maintain budget
- Communicate with campus financial offices to ensure club's good standing

UNL Pi Mu Epsilon Math Club August 2017 - May 2019

- Attend lectures by distinguished mathematicians from across the country
- Honor given to high-achieving undergraduate Mathematics majors

UNL Honors Program Student Advisory Board November 2017 - May 2019

- Facilitate communication between honors students and faculty
- Promote community engagement of honors students through event planning and outreach

UNL Math Day, *Volunteer* November 2017

- Volunteered at Nebraska-wide high school level math competition

CONFERENCES ATTENDED

Nebraska Conference for Undergraduate Women in Mathematics January 25, 2019
University of Nebraska-Lincoln (Forthcoming)

- Presentation: "Boundary Layer Separation in Turbulent Fluids"

Nebraska Academy of Sciences Conference, *Nebraska Wesleyan* April 20, 2018

- Poster presentation: "Theoretical and computational studies of wake turbulence"

GROW Conference, *Northwestern University* October 13, 2017

- Awarded travel grant to attend

TECHNOLOGY SKILLS

Programming Languages:

- *Proficient:* Java, Python.
- *Some proficiency:* C++, C, Matlab, PHP.

Markup Languages: \LaTeX , HTML/CSS, XML.

Applications: Excel, Presentation software, Eclipse, FEniCS, Photoshop.