

Ariana Lilia Rider

(309) 831- 7989 | San Marcos, Texas, 78666

To apply for an opportunity to enhance education and development.

Passionate, goal-oriented, and determined, Ariana is experienced in developing ideas and people, taking responsibility, and seeing the details.

Seeking to pursue a career in mathematics and aerospace engineering with a research focus.

EDUCATION:

Bloomington High School – 2020-2024 – Bloomington, IL – Valedictorian **Grad.: 05/2024**

Associate in Arts - Mathematics **Grad.: 05/2025**

Heartland Community College – 2022-2024 – Normal, IL – Dean’s List

Bachelor of Science in Physics and Applied Mathematics **Grad.: 05/2028**

Minor in Computer Science

Texas State University – 2024-present – San Marcos, TX – Dean’s List – Honor’s College – VP
SIAM chapter at TXST

Major related courses:

- Honors Elementary Number Theory – A
- Technical Writing – A
- Calculus II – A
- Calculus III – A
- Computer Science (C++) – A
- Discrete Mathematics – A
- Physics Mechanics – A
- Physics Waves and Heat – A

- Differential Equations – A
- Computer Science (C++ II) – B

QUALIFICATIONS:

Undergraduate Research Fellow for Mathematic Logic@TXST – 08/11/2025-12/09/2025

Under direction of Dr. William Boney at Texas State University

Undergraduate Instructional Assistant at Texas State University in San Marcos, TX – 01/19/2025-12/09/2025

*Under direction of Dr. Hiro Lee Tanaka at Texas State University – Intro to Advanced Mathematics.
Under direction of Dr. Weam Al-Tameemi at Texas State University – Calculus II*

Undergraduate Research Intern (REU) with the Texas Advanced Computing Center (TACC) and the Hildebrand Department of Petroleum and Geosystems Engineering at The University of Texas at Austin – 05/31/2025-08/02/2025

Under direction of Dr. Maša Prodanović, Dr. Bernard Chang, and Dr. Rosalia Gomez at the University of Texas at Austin

Server at Plucker's Wing Bar in San Marcos, TX – 09/17/2024-10/23/2024

Service Technician at Weedman in Bloomington, IL – 07/10/2024-08/21/2024

Front of House at Meatheads in Bloomington, IL – 07/25/2020-08/21/2024

SUMMARY OF QUALIFICATIONS

- **Leader** – Vice President of the Society of Industrial and Applied Mathematics at Texas State University. Consistent Dean's and President's list recipient. First woman in the history of Logic@TXST to be selected. Leads internal teams and peers towards growth and success while measuring the impact. Creates presentation content and organizes ideas into written form for use with audiences of the highest importance while exercising confidentiality and collaborating with leadership. Trains and develop peers and informal direct reports.

- **People-oriented & Consistent** – 4 years' experience in direct training of individuals to fill positions [Meatheads, Varsity Football]. Collaborates across departments with multiple different parties to accomplish a common goal [Mathematics and Physics Departments at TXST].

LEADERSHIPS – ACTIVITIES – PROFICIENCIES

- **Societies/Memberships - (2024-Present)** – Society for Industrial and Applied Mathematics at TXST (SIAM), Pi Mu Epsilon at TXST, Alpha Lambda Delta Honor Society at TXST, National Honors Society at Bloomington High School,
 - *Attended 2025 Gulf States Math Alliance Conference at SUNO, February 14-16.*
 - *Current Vice President for SIAM.*
- **Proficiencies** – PowerPoint, OneNote, Excel, OneDrive, Outlook, Word, C++, Python, Conda, Command-Line, HPC systems, Linux systems, GitHub, Jupyter Notebooks, Big Data, Data science & Data visualization packages.
- **Academic Challenge - (2022-2024)** – Participated through Heartland Community College and won first place regional champion in mathematics, computer science, and chemistry.
- **St. Baldrick's Foundation - (2024)** – Was the event organizer, which recruited volunteers, sponsors, and acted as treasurer.
- **Varsity Girls Soccer - (2022-2024)** – Team captain, organizing multiple fundraisers and events for young girls in my community.
- **Varsity Boys Tackle Football - (2020-2024)** – Played at running back and middle linebacker with being the only female on the team.
- **Student Council - (2023-2024)** – Held questionnaires for prom & homecoming. Coordinated fundraisers/events for the American Red Cross and the local homeless shelter.
- **Special Interests** – Collecting vinyl records, Elvis Presley, Country Festivals, South Park, Lifting & Running, Grilling, Being Outdoors.

AWARDS – CERTIFICATIONS – LICENCES – Degrees

- Invited to speak at Logic@TXST seminar - 2025
- Undergraduate Recognition for Academic Distinction - 2025 - Texas State University

- President's List – Spring 2025 – Texas State University
- Associate in Arts, Concentration in Mathematics – Spring 2025 – Heartland Community College
- Dean's List – Fall 2024, Spring 2025, Fall 2025 – Texas State University
- Dean's List – Spring 2024 – Heartland Community College
- General Standards Agricultural Commercial Applicator License – 2024
- TABC Certification – 2024
- Texas Food Handlers – 2024
- Seal Of Biliteracy – 2024
- Illinois State Scholar Award – 2023
- College Board National Recognition Program – 2024
- College Board AP Scholar with Distinction Award – 2023
- College Board National Hispanic Recognition Program – 2023
- Big 12 conference scholar-athlete award (Football & Soccer) - 2022, 2023, 2024
- IHSA Scholar Athlete Award (Football & Soccer) - 2022, 2023, 2024
- IHSSCA Academic All Sectional (Soccer); IHSSCA All Sectional Team (Soccer)