

Carly Truskett

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EDUCATION

- Austin Community College** – Austin, Texas **August 2022 - Present**
- GPA: 4.00/4.00
- University of California, Davis** – Davis, California **August 2024 - October 2024**
- GPA: 4.00/4.00
- Liberal Arts and Science Academy** – Austin, Texas **August 2020 - May 2024**
- GPA: 3.65/4.0; 4.43/5.00

EXPERIENCE

- Undergraduate Student Researcher** – Wang Group at The University of Texas at Austin **January 2026 - Present**
- Researched transition metal dichalcogenides(TMDs) as hydrogen evolution reaction catalysts to develop clean fuel
 - Analyzed defect formation energetics in relation to TMD catalytic activity trends using machine learning in Python
 - Trained a random forest regression algorithm to predict chemical reactivity in response to the given environment
- Research Intern** – Contreras Research Lab at The University of Texas at Austin **August 2023 - May 2024**
- Studied oxygen-reactive species imbalances to advance early degenerative disease diagnostics and prevention
 - Expressed and purified TAR DNA-binding protein 43 under Dr. Lucas Miller and graduate student Kathleen Taylor
 - Utilized polymerase chain reaction, gel electrophoresis, Gibson assembly, plasmid preparation, and buffer exchange
- Design Intern** – Texas Innovation Center at The University of Texas at Austin **May 2022 - August 2022**
- Designed pitch decks and custom social media content for UT startup companies and student scholarship awardees
 - Assisted UT Austin students and faculty in locating on-campus entrepreneurial advising for grant applications
- Tomlinson's Feed** – Austin, Texas **March 2024 - Present**
- Team Member**
- Helped to raise ~206,000 pounds in annual "Pound 4 Pound" pet food donation drive to support 50+ Texas shelters
 - Provided tailored advice and recommendations to address customer and pet needs effectively while shopping

ACTIVITIES & PROJECTS

- Project Pass It On** – St. James' Episcopal Church **February 2025 - May 2025**
- Founder**
- Spearheaded local donation drives for gently used infant, toddler, and teen clothing
 - Worked with St. James' Episcopal Church to collect and distribute ~600 items to families and single mothers
- Food Pantry Club** – Liberal Arts and Science Academy **August 2022 - May 2024**
- Founder**
- Collaborated with the Central Texas Food Bank to organize a school-wide food drive that raised ~1200 pounds of non-perishable goods for disaster relief, disadvantaged families, and the homeless
 - Awarded students ~300 volunteer hours through co-sponsorship with the National Honor Society

CERTIFICATIONS

- ACC Certificate in Biotechnology Level I** – Austin Community College **May 2024**
- Demonstrated readiness for entry-level biotechnician roles in laboratory and manufacturing environments