

ABIGAIL SIMON

(469) 585-3505 ▪ abigailwsimon@gmail.com

SKILLS

- Experienced with SolidWorks, MATLAB, Microscopy Equipment, Hardness Testers, and Microsoft Office

WORK EXPERIENCE

Department of Materials Science and Engineering — *Outreach Director* 2021 - PRESENT

- Led the planning and execution of over 30 STEM outreach events, reaching more than 2,000 K-12 students across 20 schools in Tucson, promoting materials science and engineering
- Designed and implemented educational programs that introduced students to fundamental materials science concepts and cutting-edge technologies
- Established and maintained partnerships with local schools and community organizations, increasing STEM engagement and support

Baker Hughes — *Materials Science and Engineering Intern* SUMMER 2023

- Collaborated with the Advanced Manufacturing team on polymer characterization for energy systems, focusing on sustainability and performance
- Utilized the VHX-1000 Microscope to conduct detailed post-test analysis of Backup and O-ring systems, leading to improved understanding of material durability under operational conditions
- Operated the C-THERM and Differential Scanning Calorimeter to accurately measure thermal conductivity and glass transition temperatures of various elastomers and thermoplastics, contributing to material selection and performance optimization
- Analyzed data using Excel to interpret test results and support the design of materials with improved thermal and mechanical properties and submit reports for leadership review

Citi Women in I.T Internship — *Intelligence Process Automation Team* SUMMER 2022

- Selected for a competitive internship program, specializing in process automation using Automation Anywhere and Xceptor
- Analyzed and optimized business processes through data analysis with Excel and Jira, enhancing operational efficiency and accuracy

LEADERSHIP EXPERIENCE

University of Arizona Hillel — *President* 2021 - PRESENT

- Partner with the organization to plan and execute events and activities, enhancing community engagement and cultural awareness
- Co-founded and co-lead a student choir, Chai Notes, performing at Hillel and University events, fostering a vibrant cultural and artistic community

Enharmonics A Cappella — *Treasurer* 2021 - 2023

- Sang and performed with prestigious University of Arizona A Cappella competitive team
- Managed financial transactions and fundraising efforts, ensuring financial stability and successful event planning

AWARDS & RECOGNITION

- Departmental Honors for Sophomore in Materials Science and Engineering, 2022
- Girl Scouts Young Woman of Distinction, 2020 - Awarded for outstanding Gold Award Project
- Girl Scouts Gold Award, 2019 - Designed and implemented a diversity and inclusion workshop for teenagers

EDUCATION

University of Arizona, *Tucson, Arizona*; Anticipated Graduation - May 2025

Major - Bachelor of Science, Materials Science and Engineering; Minor - Classics