

Tanya Kari

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Biomedical engineering student with research experience in microfluidics, cancer cell culture, and surgical robotics. Experience with collaboration and leadership through healthcare outreach and clinical volunteering. Eager to contribute these skills while building practical experience as an intern in the biomedical industry.

EDUCATION

Texas A&M University, College Station, Texas

May 2028

Bachelor of Science - Biomedical Engineering, Honors

GPA: 4.0/4.0

WORK EXPERIENCE

Lele Lab - Texas A&M Biomedical Engineering

Aug 2025 - Present

Research Intern

- Fabricating microfluidic devices to investigate how cancer cells deform their nuclei to navigate confined spaces and investigating the role of nuclear proteins in facilitating cell movement and metastasis
- Maintaining and culturing human cancer cell lines, using aseptic technique and media preparation

University of Hawaii Cancer Center

May 2025 - Aug 2025

Research Intern

- Assembled a concentric tube robot (CTR) for use in future research on minimizing tissue damage and improving accuracy in minimally invasive, robot-assisted, surgeries
- Evaluated the robot's viability and presented findings in a research poster to a panel of medical professionals at the University of Hawaii Cancer Center

Hawaii Pacific Basin AHEC (Area Health Education Center)

Sep 2021 – May 2024

Project Intern

- Collaboratively organized 50+ hands-on medical workshops (including suturing, dissections, first-aid certifications) to expand access to clinical skill-building for rural students across Hawai'i and the Pacific
- Published monthly newsletters to 400+ members, promoting healthcare education engagement throughout Hawai'i and the Pacific

COMMUNITY INVOLVEMENT

- **ISPE (Intl. Society for Pharmaceutical Engineers) – Treasurer**

Sep 2024 – Present

Coordinating funding and tracking expenditures for Texas A&M ISPE to facilitate pharmaceutical engineering workshops and student development opportunities at Texas A&M University

- **Texas A&M Emergency Care Team – Volunteer**

Jan 2025 – Present

Supporting EMTs on-site during campus emergencies while completing emergency response training

- **Islands Hospice – Volunteer**

Jun 2025 – Present

Providing companionship and assisting hospice patients and their families with daily needs during end-of-life care

- **Kihei Charter School / Schoolhouse.world - SAT & ACT Tutor**

Sep 2022 – May 2024

Founded a school-wide SAT prep course and developed an online study website now integrated into the high school curriculum; additionally delivered 40+ hrs of free SAT tutoring online via Schoolhouse.world for underserved students around the world

HONORS/AWARDS

- President's Endowed Scholarship – Texas A&M Foundation (2024)
- US Presidential Scholar Semifinalist – US Department of Education (2023)
- National Merit Finalist – College Board (2023)
- Valedictorian - Kihei Charter High School (2024)

SKILLS

- **Technical:** Cell culture and microscopy, CAD (SolidWorks), Python, MATLAB, Excel/Sheets,
- **Professional:** Technical writing, Symposium presenting, Fundraising, Outreach, Collaboration