

I firmly believe that diverse and inclusive environments are essential for driving impactful research that benefits broader communities. My past experiences and future aspirations in this realm center on three primary aspects.

**Eliminating access barrier.** As a Ph.D. student, I organized an event that facilitated interactions between graduate students and faculty members, helping students find research advisors. During my time at the University of California San Diego, I served as a reviewer for the *summer internship research program*, actively promoting applications from underrepresented backgrounds. Additionally, as a poster judge at the *Koret UC LEADS Research & Leadership Symposium*, I recommended individuals from underrepresented backgrounds as exemplary presenters.

**Creating inclusive environment.** Fostering an inclusive environment that promotes representation from underrepresented backgrounds is of paramount importance. During my academic journey, I actively contributed to these efforts: (1) At Shanghai Jiao Tong University, I volunteered as part of the *Postgraduate Re-examination Committee*. In this role, I collaborated on recommendations to enhance the student experience and advance diversity within the university. I also provided guidance to female undergraduate students, preparing them for graduate school applications, and encouraging their pursuit of higher education; (2) At the University of California San Diego, I participated in the *MAE Women's Group Mentoring Program*, where I served as a mentor to two female undergraduate students pursuing studies in engineering and research. I shared insights and support to empower them in their academic journeys; (3) I also undertook a moderator role at the *Summer Research Conference at the University of California San Diego*, championing inclusivity for underrepresented undergraduates.

**Active outreach.** Directly reaching out to underrepresented communities plays a pivotal role in recruiting diverse students and faculties. During my academic journey, I actively engaged in outreach initiatives: (1) While pursuing my Ph.D. at Ohio State University, I volunteered with the *Graduate Society of Women Engineers*. Through this involvement, I invited women engineers to share their experiences and research in science and engineering, creating opportunities for aspiring female engineers to learn and connect; (2) I dedicated my time to mentor middle school students in Columbus, teaching them computer science and engineering concepts. Moreover, I provided guidance to high school students working on robotics projects, introducing them to my project prototypes and inspiring their interests in engineering; (3) At the University of California San Diego, I volunteered as a judge member for *H.A.R.D. HACK*, where I offered feedback on participants' engineering projects.

**Plans for promoting diversity.** In my future role as a faculty member, I am committed to improving access to information and opportunities. I plan to promote research opportunities within my research group to individuals from underrepresented backgrounds. I also intend to organize or participate in events that foster student-faculty interactions, aiding graduate students in finding suitable research advisors. I intend to create avenues for students from underrepresented backgrounds to voice their concerns and receive the necessary support. I plan to create research opportunities for students from underrepresented backgrounds and invite them to visit my research lab, where they can explore computer engineering prototypes and gain foundational knowledge in science and engineering.