

## Diversity Statement

I am defined by being a female in STEM, a first-generation college student, and an international student. At one point, I was the only female out of ten PhD students in my research group. As a first-generation college student, I am the only one in my family who has attended college and graduate school, and is now applying to become a professor. As an international student, I have witnessed how racial stereotypes can hurt people, impact policy, and influence society. These experiences have motivated me to support diversity, equity, and inclusion in my future career as a professor.

### 1 Past experience in diversity, inclusion, and equity

Mentorship has been an outlet for me to promote diversity, inclusion, and equity. So far I have closely mentored four female students in research and career. Currently, one of them is pursuing their PhD, two are working in tech companies, and the other one is applying for graduate school. As a female mentor, I always encourage my mentees to ignore the negative voices from outside and chase their dreams, especially with my own experience. For example, one of my students came to me for advice because she wanted to work for a few years and then pursue a PhD, but she also wanted to start a family and was concerned about the balance between family, and career path. I shared my experience working full-time in the industry for two years before starting my PhD, which is not a common choice, especially for females. But I appreciated my working experiences as they prepared me with valuable skills and a strong will to finish my PhD. Then I told her that it takes time to figure out the right path and it is never too late to pursue a PhD. Eventually, she decided to follow my path to work in the industry first and then pursue a PhD, and I felt proud of her.

I have also supported diversity by giving back to the community. I have served as an area chair in *Women in Machine Learning*, a workshop for female researchers in machine learning to share their work. When reviewing the proposals, I was inspired by the in-depth thinking of female researchers on using technologies for social good, such as battling against online grooming. Moreover, I have been a TA for multiple courses, allowing me to interact with students from diverse backgrounds and create an inclusive environment for them. I am glad that students all felt comfortable coming to me not just for questions on lectures, but also for career advice.

I have also promoted inclusion and equity through my own research. During my PhD, I have made substantial efforts in donation persuasion for social good [1–4]. I have also studied people’s perception of chatbot identities [3], which is a pioneering work on ethics that serves as solid evidence for legislation on AI agents and proposes guidance on AI system design. In the future, I plan to improve the inclusivity of the AI community, by educating the general public on how AI models work, and involving them in AI development.

### 2 Future plans on diversity, inclusion, and equity

**Teach others/myself about diversity, inclusion and equity.** Through my own experience, I realized that everyone has a different background and may not understand the challenges others face. For instance, as a first-generation college student, I did not even know I could reach out to senior mentors to guide me. But when I talked to my friend, he found it hard to imagine because his family gave him many suggestions on college life. Therefore, I plan to educate people on diversity, by including diversity-related research in my course, sharing my own experience with others, and inviting people from different groups to talk about their stories.

**Create more opportunities for underrepresented groups.** Although I was the only female PhD student in my research group at one point, I was lucky to have a female advisor and external female collaborators. In the future, I will do my best to create more opportunities for different groups. I will advertise research positions in my lab and encourage people from underrepresented groups to apply. I will introduce people to researchers in their groups for collaboration. I will also organize workshops and

social events for underrepresented groups so that they can know each other and discuss research and career goals.

**Embed diversity, inclusion, and equity in my own research.** As mentioned in my research statement, I firmly believe technology should be used for social good. My biggest goal is to build dialogue systems for marginalized groups, such as senior citizens, patients in need, and groups speaking dialects and low-resource languages, to make them feel included in the fast-developing world. To build such systems, we must first understand the user dynamics of different groups. However, we found that in our study, only 2.1% (42 out of 2034) participants are senior citizens. Systems developed with a biased population will only reinforce this phenomenon. As a researcher, my first step is to invite different groups for studies, listen to them, and eventually help them break the technology barriers.

## References

- [1] Maximillian Chen, **Weiyan Shi**, Feifan Yan, Ryan Hou, Jingwen Zhang, Saurav Sahay, and Zhou Yu. Seamlessly integrating factual information and social content with persuasive dialogue. *The 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing (ACL-IJCNLP)*, 2022.
- [2] **Weiyan Shi**, Yu Li, Saurav Sahay, and Zhou Yu. Refine and imitate: Reducing repetition and inconsistency in persuasion dialogues via reinforcement learning and human demonstration. *Findings of the Association for Computational Linguistics: EMNLP 2021*, 2021. URL: <https://aclanthology.org/2021.findings-emnlp.295/>.
- [3] **Weiyan Shi**, Xuewei Wang, Yoo Jung Oh, Jingwen Zhang, Saurav Sahay, and Zhou Yu. Effects of persuasive dialogues: testing bot identities and inquiry strategies. *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI)*, 2020. URL: <https://dl.acm.org/doi/10.1145/3313831.3376843>.
- [4] Xuewei Wang\*, **Weiyan Shi\***, Richard Kim, Yoojung Oh, Sijia Yang, Jingwen Zhang, and Zhou Yu. Persuasion for good: Towards a personalized persuasive dialogue system for social good. *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2019. URL: <https://aclanthology.org/P19-1566/>.