

Throughout my academic journey, I have had valuable teaching experiences that have contributed to my growth and passion for education. During my time as a graduate student at Shanghai Jiao Tong University, I undertook various teaching roles, including that of a calculus tutor. I also served as a teaching assistant for undergraduate courses in Computer Architecture and Computer Networking. My commitment to teaching continued at Ohio State University, where I took on the role of a teaching assistant for a graduate-level Introduction to Artificial Intelligence course. As a postdoctoral scholar at the University of California San Diego, I continued to mentor and advise undergraduate and graduate students on graduate school applications, engineering career development, and research.

1 Teaching Philosophy

Teaching fundamentals through the lens of real-world problems. In the realm of education, it is imperative that students not only grasp fundamental concepts but are also inspired by real-world problem-solving scenarios. To achieve this, I adopted a pedagogical approach that involved deconstructing complicated problems into simple subproblems. I took care to elucidate these subproblems from a perspective rooted in straightforward techniques, making the learning process more accessible and engaging. One of the students I had the privilege of teaching expressed their appreciation by noting, "I really appreciate that he broke down the complex problem into simple parts and explained it in a comprehensive way with real-world demonstration."

Creating an inclusive and nurturing learning environment. I actively encourage students to participate by asking questions and sharing their thoughts during class discussions. In my classroom, there are no 'stupid' questions because I firmly believe that every question is an opportunity for learning and clarification. This open and judgment-free dialogue fosters a positive atmosphere where students feel comfortable and empowered to engage actively in the learning process. I also seek feedback from students through periodic anonymous surveys. This feedback loop helps me refine my teaching approach and address any areas that may need improvement. As one student aptly expressed, "Wei always encouraged us to ask questions and ensured that I fully understood everything step by step."

Recognizing diverse learning styles. I am committed to developing curricula that cater to these varying needs, ensuring that every student has the opportunity to excel and reach their full potential. I employ a range of teaching strategies, including the use of various visual aids and hands-on experiences with real-world system prototypes. I structure my courses, offering students the flexibility to choose the learning methods that work best for them. This thoughtful approach ensures that students can tailor their learning experiences to suit their needs, ultimately enhancing their understanding and retention of course material. As one of the students told me during office hours for Computer Networking course. "Thanks for creating the new programming environment for me to conduct the lab assignments."

Promoting diversity and interdisciplinary. Diversity in the classroom is not only valued but celebrated in my teaching philosophy. I firmly believe that a diverse student body enriches the learning experience by fostering discussions and encouraging us to approach problems from a multitude of perspectives. I am dedicated to adjusting my teaching mate-

rials and methods. Moreover, as scientific and engineering fields increasingly intersect with information processing and computing, I emphasize an interdisciplinary teaching approach. This approach not only benefits students with non-computing majors but also sparks broader discussions and encourages critical thinking across various disciplines. As one of the students told me during office hours for Introduction to Artificial Intelligence course. "I appreciate that you can explain the problem in an intuitive way without requiring any mathematical background."

2 Courses I Can Teach

I am excited to teach undergraduate or graduate classes in Computer Networks, Network Security, Mobile Computing, and Wireless Communication Systems. Furthermore, I aspire to contribute to the development of project-based ubiquitous computing for human well-being. If given the chance, my larger ambitions include establishing project-based ubiquitous computing for human well-being. I would like to design a graduate course on the reliable ubiquitous system consisting of system design and its security and privacy. I also would love to design a research seminar for graduate students, to connect ubiquitous computing systems design with human well-being on health, privacy, security, and safety.

3 Advising and Mentoring

During my Ph.D. studies at Ohio State University, I had the privilege of mentoring undergraduate students from institutions like Ohio State University, Cornell University, and local high schools. For example, I mentored an undergraduate student named Ishaan Chansarkar from Cornell University to work on RFID-based liquid thickness sensing during his summer internship at Ohio State University. This research result is published at ACM CHASE 2023. Subsequently, during my postdoctoral studies at the University of California San Diego, I continued my mentorship journey by guiding both graduate and undergraduate students. Many of these students came from underrepresented groups, and I consider it a privilege to have had the opportunity to support and empower them in their academic pursuits. For example, I advised a graduate student named Evan Lo to work on the Internet-of-things device's fingerprinting, resulting in a research paper submission. At the University of California San Diego, I actively participated in the MAE Mentoring Program, where I mentored two female undergraduate students (Marlyn Arque-rupa and Madhoolika Chodavarapu), providing guidance and mentorship on research and study within the field of computer engineering. Additionally, I took on the role of a poster judge for the Koret UC LEADS Research & Leadership Symposium. This allowed me to offer positive feedback to poster presenters and promote their research endeavors, contributing to their academic growth.

I intend to support and actively participate in student-led volunteer initiatives aimed at K-12 outreach. One way I plan to contribute to K-12 outreach is by offering summer internships to high school or middle school students. Furthermore, I am eager to collaborate with local high and middle schools to create course components that introduce students to the exciting world of computer engineering.