Bob Wei (he/they)

Berkeley, CA | bobtianqiwei@berkeley.edu | +1 510-816-2381 | www.bobwei.top

Education

University of California at Berkeley, College of Engineering, CA, USA	Aug 2023 – Dec 2024
M.Des in Human-Computer Interaction	GPA: 3.662/4
Tsinghua University, Dept. of Industrial Design, Academy of Arts and Design, Beijing, China	Aug 2019 – Jun 2023
B.A. in Industrial and Product Design	GPA: 3.71/4

Research & Professional Experience

UC Berkeley, EECS Department, Prof. Bjoern Hartmann, Research Engineer — Nov 2023 - Present
- Conducted HCI research on generative AI systems for creative work, voice acting, and interactive learning environments, combining quantitative analysis with qualitative studies.
- Developed web-based interfaces and prototypes using JavaScript and HTML for human-AI interaction experiments.

UC Berkeley Mechanical Engineering, Morphing Matter Lab, Prof. Lining Yao, Research Engineer — Feb 2025 - Present
- Developed flexible electroosmotic pumps, using silicone to fabricate flexible materials. Assisted in the conceptualization of applications, produced video documentation, and conducted physical performance testing on materials and structures.

Association for Computing Machinery (ACM), Reviewer — Sep 2024 - Present
- Reviewed papers for the ACM CHI conference, providing feedback on submissions related to human-computer interaction research.

UC Berkeley, School of Education, Prof. Dor Abrahamson, Graduate Student Researcher — Aug 2023 - Dec 2023
- Investigated cognitive processes in tacit knowledge acquisition through learning sciences and cognitive science research, focusing on embodied learning in interactive educational environments.

Teaching Experience

UC Berkeley, INFO 213: Introduction to User Experience Design, Reader	Aug 2024 - Dec 2024
UC Berkeley, DESINV 22: Prototyping and Fabrication, Lead TA	Jun 2024 - Aug 2024
UC Berkeley, INFO C262: Theory and Practice of Tangible User Interfaces, Lead TA	Aug 2023 - Dec 2023
Tsinghua University, Romantic and 20th Century Piano Pieces Performance, Lead TA	Sep 2021 - Jul 2022

Publications

Generating Visual Aids to Help Students Understand Graphic Design with EKPHRASIS — Apr 2025
Bob Tianqi Wei, Shayne Shen, Shm Almeda, Bjoern Hartmann.
ACM Conference on Human Factors in Computing Systems (CHI) 2025, doi.org/10.1145/3706599.3719807

Demonstration of Sympathetic Orchestra: An Interactive Conducting Education System for Responsive, Tacit Skill Development — Oct 2024
Bob Tianqi Wei, Shm Almeda, Ethan Tam, and Dor Abrahamson.
ACM Symposium on User Interface Software and Technology (UIST) 2024, doi/10.1145/3672539.3686783

Leadership

Tsinghua University Student Art Troupe Clavier Team, President — Aug 2021 - Aug 2022
- Organized and held large-scale concert activities and art popularization lectures.

Tsinghua University iOS Club, Leader of Publicity Group and Member of Product Manager Team — Aug 2021 - Aug 2022
- Represented the club to Apple headquarters for an interaction and hardware theme exchange, allowing the club to receive support for development equipment, funding, and internship resources.

Skills

Languages: Mandarin Chinese (Native), English (TOEFL 110), Japanese (Fluent)
Programming: C++, Java, Python, MATLAB, Processing, JavaScript, HTML, Max MSP
CAD: Rhinoceros, Grasshopper, Solidworks, AutoCAD, KeyShot, Autodesk Fusion 360
Software: Figma, Microsoft Office, Adobe Photoshop, Adobe InDesign, Logic Pro, Final Cut Pro
Skills: Mechanical Design, Digital Fabrication, Prototyping with Embedded Systems, Music Production
Hobbies: Photography, Musical, Watercolor, Badminton, Cooking, Palmistry, FengShui