

Ada Zhao

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Research Interest

I am a Human-Computer Interaction researcher focused on advancing how computers support people during real-world physical activities through embedded assistance. My current work explores this space by integrating computer vision, large language models, and augmented reality.

Education

University of Colorado Boulder <i>Ph.D. in Computer Science</i> Advisors: Ellen Yi-Luen Do, Ryo Suzuki Human-Computer Interaction, AR/VR	2025-Present
University of Colorado Boulder <i>M.S. in Creative Technology and Design</i> GPA: 3.97/4.0	2023-2025
New York University Shanghai <i>B.S. in Interactive Media Arts, Computer Science</i> GPA: 3.87/4.0, magna cum laude	2014-2018

Research Experience

ATLAS Institute, Boulder <i>Research Assistant, Advisors: Ellen Yi-Luen Do, Ryo Suzuki</i> <ul style="list-style-type: none">Investigated how embedded visual guidance can support users in performing physical tasks, and developed an AR system that automatically generates spatial visual cues from natural-language instructions. [C1]Developed an authoring tool to create AR tutorials by automatically identifying key task steps through speech-action synchronicity analysis. [P2]	08/2023-Present
NYU Shanghai, Shanghai <i>Research Assistant, Advisor: Michael Naimark</i> <ul style="list-style-type: none">Researched the <i>TeleWindow</i> project, a system to capture and display telepresence for one-to-one conferencing. This work resulted in an approved patent.	09/2017-06/2018

Publications

*C stands for conference full paper, P stands for posters or patent.

- [C2] Rishi Vankuru, Krithik Ranjan, Ada Yi Zhao, David Lindero, Gunilla H Berndtsson, Gregoire Phillips, Amy Banić, Mark D Gross, Ellen Yi-Luen Do. Studying Mobile Spatial Collaboration across Video Calls and Augmented Reality. In Proceedings of Computer-Supported Cooperative Work & Social Computing. ACM, 2026. (conditionally accepted to CSCW, acceptance rate: 6.8%)
- [C1] Ada Yi Zhao, Aditya Gunturu, Ryo Suzuki, Ellen Yi-Luen Do. Guided Reality: Generating Visually-Enriched AR Physical Task Guidance with LLMs and Vision Models. In Proceedings of the Annual ACM Symposium on User Interface Software and Technology. ACM, 2025. (UIST'25 acceptance rate: 22.1%)
- [P2] Ada Yi Zhao, Suibi Che-Chuan Weng, Ella Grace Finstuen, Haifeng Chen, Lu-An Tang, Kai Ishikawa, Ellen Yi-Luen Do. The WizARd and Apprentice: An Augmented Reality Expert Capture System. In Proceedings of International Symposium on Mixed and Augmented Reality. IEEE, 2024. (ISMAR-Adjunct)

[P1] Michael Naimark, Cameron Ballard, Bruce Luo, David Santiano, Grace Huang, Mateo Juvera Molina, and Ada Zhao. Systems and methods for interpolative three-dimensional imaging within the viewing zone of a display. U.S. Patent 17/604,333, 2024

Professional Experience

Tencent, Shanghai

06/2018-05/2023

Senior Product Manager, Mobile AR Selfie Lenses and Video Editing Tools

- Managed the development, production, and promotion plan, contributing an extra 10% of user-generated content to our short video platform. Monthly campaigns achieve over 10 million user visits.
- Worked closely with AI engineers and designers to develop and apply cutting-edge technology to mobile AR selfie lenses and video editing.

Midnight Commercial Studio, New York

05/2017-08/2017

Research & Development Summer Intern

- Participated in designing and developing client projects, including Samsung smart fridge prototype, Cadillac rearview mirror installation, and Patron tequila mobile AR experience.

Awards and Honors

CU Boulder CS PhD Scholarship \$5,000	2025
CU Boulder ATLAS Scholarship \$4,000	2023, 2024
Tencent Outstanding Employee (top 5%)	2019, 2020
Tencent Innovation Award	2020, 2021
NYU Dean's List	2015-2018

Teaching Experience

CSCI 1300 Starting Computing	08/2025-Present
ATLS 3000 Object (Physical Computing)	08/2024-12/2024
ATLS 5616 Intro to Virtual Reality	08/2023-12/2023
VR/AR Fundamentals	08/2017-05/2018
Interaction Lab	08/2015-05/2016

Leadership and Service

HackShanghai, Largest College Hackathon in China, Co-director	05/2015-11/2015
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Skills

Unity, Web Dev, Python, Swift, Java
Arduino, Physical Computing, Digital Fabrication
Project Management, UX Design, Data Analysis
Adobe Creative Suite, Microsoft Office Suite