

# Zhilin Zhang

PhD Candidate, Computer Science Department, University of Oxford

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## EDUCATION & TRAINING

**Ph.D. Computer Science, University of Oxford, UK, 2022 - 2026**

Supervisors: Sir Nigel Shadbolt, Sir Tim Berners-Lee, Jun Zhao, Max Van Kleek

**M.S. Computer Science, University of Illinois at Urbana-Champaign, USA, 2021**

Advisors: Lawrence Angrave and Karrie Karahalios

**B.S. Computer Science, University of Illinois at Urbana-Champaign, USA, 2019**

Bachelor of Science with Highest Honors

## RESEARCH AREAS

Human-Computer Interaction • Computer Supported Cooperative Work

Artificial Intelligence • Human-Centered AI • Data Autonomy

Social Computing • Decentralized Social Media

## AWARDS AND HONORS

2024 Best Paper Honorable Mention Award, ACM CHI

2024 Special Recognitions for Outstanding Reviews, ACM CSCW

2021 Best Paper Award, American Society for Engineering Education (ASEE)

2021 Best DEI Paper Award, American Society for Engineering Education (ASEE)

2020 Best DEI Paper Honorable Mention, American Society for Engineering Education (ASEE)

## PUBLICATIONS

Top-tier venues in computer science/human-computer interaction research appear at ACM conferences such as CHI and CSCW. They are highly selective venues and intended for archival papers only. These conferences often exceed journals in their selectivity, visibility, and impact. Submissions undergo multiple rounds of review before being accepted for publication. In 2018, CSCW transitioned to a hybrid journal structure and renamed itself Proceedings of the ACM on Human-Computer Interaction. CSCW (PACMHCI: CSCW).

*\* indicates co-first author. † indicates corresponding author*

### Refereed Conference, Journal and PACM (Conference-Journal Hybrid) Papers

2024 [P11] **Zhilin Zhang**, Jun Zhao, Ge Wang, Samantha-Kaye Johnston, George Chalhoub, Tala Ross, Diyi Liu, Claudine Tinsman, Rui Zhao, Max Van Kleek, and Nigel Shadbolt. 2024. “Trouble in Paradise? Understanding Mastodon Admin’s Motivations, Experiences, and Challenges Running Decentralised Social Media.” DOI:10.1145/3687059

*Proceedings of the ACM: Human-Computer Interaction, Computer-Supported Cooperative Work and Social Computing. PACMHCI: CSCW. (CSCW'24).*

- 2024  
[P10] Ge Wang, Jun Zhao, Samantha-Kaye Johnston, **Zhilin Zhang**, Max Van Kleek, and Nigel Shadbolt. "CHAITok: A Proof-of-Concept System Supporting Children's Sense of Data Autonomy on Social Media." DOI:10.1145/3613904.3642294  
*ACM Conference on Human Factors in Computing Systems (CHI'24).*  
**🏆 Best Paper Honorable Mention Award**
- 2024  
[P9] Ge Wang, Jun Zhao, Konrad Kollnig, Adrien Zier, Blanche Duron, **Zhilin Zhang**, Max Van Kleek, and Nigel Shadbolt. "KOALA Hero Toolkit: A New Approach to Inform Families of Mobile Datafication Risks." DOI:10.1145/3613904.3642283  
*ACM Conference on Human Factors in Computing Systems (CHI'24).*
- 2023  
[P8] Tiffany Wenting Li, Silas Hsu, Max Fowler, **Zhilin Zhang**, Craig Zilles, Karrie Karahalios. "Am I Wrong, or Is the Autograder Wrong? Effects of AI Grading Mistakes on Learning." DOI:10.1145/3568813.3600124  
*Proceedings of the 2023 ACM Conference on International Computing Education Research. (ICER 2023)*
- 2022  
[P7] Bhavya\*, Si Chen\*, **Zhilin Zhang\***, Tiffany Wenting Li, ChengXiang Zhai, Lawrence Angrave, Yun Huang. "Exploring Collaborative Caption Editing to Augment Video-Based Learning" DOI:10.1007/s11423-022-10137-5  
*Educational Technology Research and Development Journal, 2022*
- 2021  
[P6] **Zhilin Zhang**, Bhavya, Lawrence Angrave, Ruihua Sui, Rob Kooper, Chirantan Mahipal, Yun Huang. "How Students Search Video Captions to Learn: An Analysis of Search Terms and Behavioral Timing Data." DOI:10.18260/1-2--37257  
*Proceedings of the American Society for Engineering Education Annual Conference. (ASEE 2021)*
- 2021  
[P5] Jenny Amos, **Zhilin Zhang**, Lawrence Angrave, Hongye Liu, Yiyin Shen. "A UDL-Based Large-Scale Study on the Needs of Students with Disabilities in Engineering Courses." DOI:10.18260/1-2--36627  
*Proceedings of the American Society for Engineering Education Annual Conference. (ASEE 2021)*  
**🏆 3rd Best Paper Award & 2nd Best Diversity, Equity, and Inclusion Paper Award**
- 2021  
[P4] Zhuohao Zhang, **Zhilin Zhang**, Haolin Yuan, Natã Barbosa, Sauvik Das, Yang Wang. "WebAlly: Making Visual Task-based CAPTCHAs Transferable for People with Visual Impairments." DOI:10.5555/3563572.3563587  
*Proceedings of the Symposium on Usable Privacy and Security. (SOUPS 2021)*
- 2021  
[P3] Silas Hsu\*, Tiffany Wenting Li\*, **Zhilin Zhang**, Max Fowler, Craig Zilles, Karrie Karahalios. "Attitudes Surrounding an Imperfect AI Autograder." DOI:10.1145/3411764.3445424  
*ACM Conference on Human Factors in Computing Systems (CHI'21).*
- 2020  
[P2] Lawrence Angrave, Karin Jensen, **Zhilin Zhang**, Chirantan Mahipal, David Mussulman, Christopher Schmitz, Robert Baird, Hongye Liu, Ruihua Sui, Maryalice Wu, and Rob Kooper. "Improving Student Accessibility, Equity, Course Performance, and Lab Skills: How Introduction of ClassTranscribe is Changing Engineering Education." DOI: 10.18260/1-2--34796  
*Proceedings of the American Society for Engineering Education Annual Conference. (ASEE 2020)*  
**🏆 Best Diversity, Equity & Inclusion Paper Honorable Mention**
- 2020  
[P1] Lawrence Angrave, **Zhilin Zhang**, Genevieve Henricks-Lepp, and Chirantan Mahipal. "Who Benefits? Positive Learner Outcomes from Behavioral Analytics of Online Lecture Video Viewing using ClassTranscribe." DOI: 10.1145/3328778.3366953  
*Proceedings of the ACM Symposium on Computer Science Education. (SIGCSE 2020)*

### Refereed Workshop Papers, Posters, Panels, and Demos (Lightly Peer-reviewed)

- 2021  
[W5] Silas Hsu, **Zhilin Zhang**, and Karrie Karahalios. "Tired of Bad Recommendations? A Design to Better Steer Your Feeds Inspired by Version Control." *Human Computer Interaction Consortium (HCIC) Virtual workshop.*

- 2021 [W4] Tiffany Wenting Li\*, Silas Hsu\*, **Zhilin Zhang**, Craig Zilles, and Karrie Karahalios. “Exploring Students’ Control over Imperfect AI Autograders.”  
*Human Computer Interaction Consortium (HCIC) Virtual workshop.*
- 2021 [W3] Kendra Walther, Hongye Liu, Lawrence Angrave, Erin Carrier, **Zhilin Zhang**, Harsh Deep. “Understanding the Needs of Students with Disabilities based on Universal Design for Learning Principles.”  
*CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing Conference.*
- 2021 [W2] Hongye Liu, Jennifer Amos, Kusum Vanwani, **Zhilin Zhang**, Lawrence Angrave. “Qualitative analysis of college students’ perception of multiple representations and modalities in courses.”  
*ASEE Illinois-Indiana Section Conference Proceedings.*
- 2020 [W1] **Zhilin Zhang**, Lawrence Angrave. 2020. “ClassTranscribe: Addressing the COVID Challenge and Promoting Better Equity in Education.”  
*Computing Research Association (CRA) Virtual Conference.*

### Thesis and Dissertation

- 2021 [T2] **Zhilin Zhang**. “Attitudes, Behaviors, and Learning Outcomes from Using ClassTranscribe, a UDL-Featured Video-Based Online Learning Platform with Learnersourced Text-Searchable Captions.”  
*Master’s Thesis, University of Illinois at Urbana-Champaign*
- 2020 [T1] **Zhilin Zhang**. “What Benefits? Exploring the Influences of Student Behaviors in Video-Based Online Learning.”  
*Undergraduate Senior Thesis, University of Illinois at Urbana-Champaign*

## TEACHING

### Computer Science Department, University of Oxford

Supervisor, Group Design Practical (2025)

### Computer Science Department, University of Illinois at Urbana-Champaign

Teaching Assistant, CS 225: Data Structures (2021)

Teaching Assistant, CS 410: Text Information Systems (2020)

Course Assistant, CS 498: Art and Science of Web Programming (2020)

Course Assistant, CS 125: Intro to Computer Science (2017)

## SERVICE

### Paper Reviewing

*CSCW 2025, 2024* 🏆 Special Recognition for Outstanding Reviews

*SIGCSE 2022, 2021*

### Admin

Undergraduate Admission Interview Assistant for Jesus College, University of Oxford (2022)