Yining "Rima" Cao

email: yic069 [at] ucsd [dot] edu | **website**: rrrima.github.io

EDUCATION

University of California, San Diego   **La Jolla, CA, US**
Ph.D. in Cognitive Science, Advisor: Haijun Xia   2021 - present

University of Michigan, Ann Arbor   **Ann Arbor, MI, US**
MSc in Information Science, Advisor: Eytan Adar   2019 - 2021

Tsinghua University   **Beijing, China**
B.E. in Environmental Science · Minor in Computer Science, Advisor: Deyi Hou   2015 - 2019

PUBLICATIONS

2024 [C.5] under review — **Yining Cao**, Yiyi Huang, Anh Turong, Hijung Valentina Shin, Haijun Xia. 2024. Compositional Structures for Human-AI Collaborative Video Creation. Under submission to the 37th Annual ACM Symposium on User Interface Software and Technology (UIST '24).

2024 [C.4] — **Yining Cao,** Ruabait Habib Kazi, Li-Yi Wei, Deepali Aneja, Haijun Xia. 2024. Elastica: Adaptive Live Augmented Presentations with Elastic Mappings Across Modalities. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24).

2023 [C.3] — **Yining Cao**, Jane L E, Zhutian Chen, and Haijun Xia. 2023. DataParticles: Block-based and Language-oriented Authoring of Animated Unit Visualizations. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23).
🏆 **Best Paper Award**

2022 [C.2] — **Yining Cao**, Hariharan Subramonyam, and Eytan Adar. 2022. VideoSticker: A Tool for Active Viewing and Visual Note-taking from Videos. In Proceedings of the 27th International Conference on Intelligent User Interfaces (IUI '22).

2021 [C.1] — **Yining Cao**, Feng Zhou, Elizabeth M Pulver, Lisa J Molnar, Lionel P Robert, Dawn M Tilbury, and Xi Jessie Yang. 2021. Towards Standardized Metrics for Measuring Takeover Performance in Conditionally Automated Driving: A Systematic Review. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting (HFES '21)

2021 [J.2] — **Yining Cao***, Xiyue Jia*, David O'Connor, Jin Zhu, Daniel C W Tsang, Bin Zou, and Deyi Hou. 2021. Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. Environmental Pollution 270 (2021): 116281.

2020 [J.1]   Liuwei Wang, Deyi Hou, **Yining Cao**, Yong Sik Ok, Filip M.G. Tack, Jörg Rinklebe, and David O'Connor. 2020. Remediation of Mercury Contaminated Soil, Water, and Air: A Review of Emerging Materials and Innovative Technologies. Environment International 134 (2020): 105281.

PROFESSIONAL EXPERIENCE

Adobe Research, Research Scientist Intern   **2023 Summer**
Mentor: Anh Truong

Adobe Research, Research Scientist Intern   **2022 Summer**
Mentor: Rubaiat Habib Kazi

Interaction & Collaboration Research Lab, University of Michigan, Research Assistant   **2020 - 2021**
Mentor: Xi Jessie Yang

Fitly Inc., Machine Learning Engineer Intern   **2020 Summer**
Mentor: Honglak Lee

SELECTED AWARDS

2023	ACM CHI Best Paper Award
2021 - 2025	Kroner Fellowship, UC San Diego
2021	HFES Student travel grant
2019	Honored Undergraduate, Tsinghua University
2018	Zheng Geru Scholarship, Tsinghua University
2017	The Veolia Special Scholarship, Tsinghua University
2017	First Prize, National Mathematical Modeling Contest
2016	Outstanding Student Leader, Tsinghua University

SERVISE AND LEADERSHIP

2024	Reviewer. ACM Conference on User Interface Software and Technology (UIST)
2023 - 2024	Reviewer. ACM Conference on Human Factors in Computing Systems (CHI)
2023 - 2024	Reviewer. IEEE Advances in Visualization and Visual Analytics (VIS)
2022	Student Volunteer. ACM Conference on Intelligent User Interfaces (UIST)

2022	Student Volunteer. ACM Conference on Intelligent User Interfaces (IUI)
2020 - 2021	Reviewer. International Conference on Information Systems (ICIS)
2017 - 2018	President of Rural International Student Exchange Association (RISE)

TEACHING AND METORING EXPERIENCE

Teaching Assistant

TA, DSGN 118: Design for Creativity and Productivity   **Winter 2024**
TA, COGS 120: Introduction to Human-Computer Interaction   **Fall 2023, Fall 2022, Winter 2022**
TA, DSGN 100: Prototyping   **Winter 2023**

Student Mentored
Yiyi Huang   **Computer Science Undergraduate, UCSD**

SKILLS

programming: Python, TypeScript, JavaScript, R, SQL
framework: PyTorch, TensorFlow, Hadoop MapReduce
design: Adobe XD, After Effects, Premiere, Photoshop, Illustrator, Cinema4D