Chunxu (Henry) Yang

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RESEARCH INTERESTS

My research interest lies in Human-AI Interaction, with a focus on building systems that utilize generative AI to provide support in various creative tasks, including writing, painting, and storytelling. I am also dedicated to creating developer toolkits for creating intuitive interactive interfaces seamlessly and exploring different approaches for AI assistance, including proactive and reactive support, sense-making, and innovative design.

EDUCATION

- **Ph.D. Computer Science**, University of Waterloo   2024 - Present
- **M.S. Electrical & Computer Engineering**, University of California, Los Angeles.   2022 - 2024
- **B.Sc. Computer Science & Technology**, Peking University.   2017 - 2022
- **B.A. Chinese Language & Literature**, Peking University.   2017 - 2022

AWARDS

- **Best Paper Honorable Mention** (top 4%), ACM CHI 2023 [P3].
- **Excellent Student Leader** (top 5%), 2020, Peking University.

PUBLICATIONS

[P1] **Majority voting of doctors improves appropriateness of AI reliance in pathology.**
Hongyan Gu, Chunxu Yang, Shino Magaki, Neda Zarrin-Khameh, Nelli S. Lakis, Inma Cobos, Negar Khanlou, Xinhai R. Zhang, Jasmeet Assi, Joshua T. Byers, Ameer Hamza, Karam Han, Anders Meyer, Hilda Mirbaha, Carrie A. Mohila, Todd M. Stevens, Sara L. Stone, Wenzhong Yan, Mohammad Haeri, and Xiang 'Anthony' Chen, *International Journal of Human-Computer Studies* 190 (2024) 103315–103316. DOI: 10.1016/j.ijhcs.2024.103315.

[P2] **A Human-AI Collaborative System to Support Mitosis Assessment in Pathology.**
Chunxu Yang, Mohammad Haeri, Shino Magaki, Neda Zarrin-Khameh, Hongyan Gu, and Xiang 'Anthony' Chen, *Companion Proceedings of the 29th International Conference on Intelligent User Interfaces,* Association for Computing Machinery, New York, NY, USA, 2024: pp. 58–61. DOI: 10.1145/3640544.3645233.

[P3] **Augmenting Pathologists with NaviPath: Design and Evaluation of a Human-AI Collaborative Navigation System.**
Hongyan Gu, Chunxu Yang, Mohammad Haeri, Jing Wang, Shirley Tang, Wenzhong Yan, Shujin He, Christopher Kazu Williams, Shino Magaki, and Xiang 'Anthony' Chen, *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems,* Association for Computing Machinery, New York, NY, USA, 2023: pp. 1–19. DOI: 10.1145/3544548.3580694.

[P4] **Improving Workflow Integration with xPath: Design and Evaluation of a Human-AI Diagnosis System in Pathology.**
Hongyan Gu, Yuan Liang, Yifan Xu, Christopher Kazu Williams, Shino Magaki, Negar Khanlou, Harry Vinters, Zesheng Chen, Shuo Ni, Chunxu Yang, Wenzhong Yan, Xinhai Robert Zhang, Yang Li, Mohammad Haeri, and Xiang 'Anthony' Chen, *ACM Trans. Comput.-Hum. Interact.* 30 (2023) 1–37. DOI: 10.1145/3577011.

[P5] **XCreation: A Graph-based Crossmodal Generative Creativity Support Tool.**
Zihan Yan, Chunxu Yang, Qihao Liang, and Xiang 'Anthony' Chen, *Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology,* Association for Computing Machinery, New York, NY, USA, 2023: pp. 1–15. DOI: 10.1145/3586183.3606826.

[P6] **INTELMO: Enhancing Models' Adoption of Interactive Interfaces.**
Chunxu Yang, Chien-Sheng Wu, Lidiya Murakhovs'ka, Philippe Laban, and Xiang Chen, *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing: System Demonstrations,* Association for Computational Linguistics, Singapore, 2023: pp. 161–166. DOI: 10.18653/v1/2023.emnlp-demo.14.

EXPERIENCE	• **Front-End Developer Intern**, ByteDance, Ltd.	2021 - 2022
	• **Graduate Research Assistant**, UCLA HCI Research.	2022 - 2024
	‣ Supervised by Prof. Xiang 'Anthony' Chen.	
	• **Graduate Research Assistant**, Augmented Intelligence Lab @ UWaterloo	2024 - Present
	‣ Supervised by Prof Edith Law.	

ACADEMIC SERVICES

Reviewer: 8 reviews, 1 special recognitions for outstanding reviews.

- ACM CHI Conference on Human Factors in Computing Systems: '24 Papers, '24 Case Studies, '24 Late Break Works.
- IEEE International Conference on Visualization: '23 alt.vis.

TEACHING EXPERIENCE

Teach Assistant

• CS 105: Introduction to Computer Programming 1	Fall 2024