

Sitong Wang

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Research Interests

Human-AI Interaction, Generative AI, Creativity and Productivity Support Tools

Education

- 2020-NOW **Ph.D. in Computer Science**, Columbia University
Advised by: Lydia B. Chilton
- M.S. in Computer Science**, Columbia University
Advised by: Lydia B. Chilton; Track: Machine Learning
- 2015-2020 **B.S. in Electrical Engineering**, University of Cincinnati
B.E. in Electrical Engineering and Automation, Chongqing University

Awards and Honors

- Aug 2023 **Code Quality Jam Best Robustness Award**
Adobe Research
- Sep 2022 **Greenwoods Fellowship Receipt**
Columbia University
- Jun 2021 **Google CS Research Mentorship Program Class of 2021**
Google Research
- Nov
2017&2018 **National Scholarship Recipient**
Chinese Ministry of Education

Publications

UNDER SUBMISSION

- 2024 [M.2] **Schemex: Discovering Design Patterns from Examples with Agentic Abstraction and Refinement.**
Sitong Wang, Lydia B. Chilton.
Under submission.
- 2024 [M.1] **JumpStarter: Getting Started on Personal Goals with Adaptive Personal Context Curation.**
Sitong Wang*, Xuanming Zhang*, Jenny Ma, Alyssa Hwang, Zhou Yu, Lydia B. Chilton.
Under submission.

CONFERENCE AND JOURNAL PAPERS

- 2024 [C.13] **Copying style, Extracting value: Illustrators' Perception of AI Style Transfer and its Impact on Creative Labor.**
Julien Porquet, Sitong Wang, Lydia B. Chilton.
To appear in ACM Conference on Human Factors in Computing Systems (CHI'25).

- 2024 [C.12] **DynEx: Dynamic Code Synthesis with Structured Design Exploration for Accelerated Exploratory Programming.**
Jenny Ma, Karthik Sreedhar, Vivian Liu, Pedro A. Perez, Sitong Wang, Riya Sahni, Lydia B. Chilton.
To appear in ACM Conference on Human Factors in Computing Systems (CHI'25).
- 2024 [C.11] **MoodSmith: Enabling Mood-Consistent Multimedia for AI-Generated Advocacy Campaigns.**
Samia Menon, Sitong Wang, Lydia B. Chilton.
In International Conference on Computational Creativity (ICCC'24).
- 2024 [C.10] **PodReels: Human-AI Co-Creation of Video Podcast Teasers.**
Sitong Wang, Zheng Ning, Anh Truong, Mira Dontcheva, Dingzeyu Li, Lydia B. Chilton.
In ACM Designing Interactive Systems Conference (DIS'24).
- 2024 [C.9] **ReelFramer: Human-AI Co-Creation for News-to-Video Translation.**
Sitong Wang, Samia Menon, Tao Long, Keren Henderson, Dingzeyu Li, Kevin Crowston, Mark Hansen, Jeffrey V. Nickerson, Lydia B. Chilton.
In ACM Conference on Human Factors in Computing Systems (CHI'24).
- 2024 [C.8] **A Design Space for Intelligent and Interactive Writing Assistants.**
Mina Lee, Katy Ilonka Gero, John Joon Young Chung, [et al., including Sitong Wang].
In ACM Conference on Human Factors in Computing Systems (CHI'24).
- 2023 [C.7] **Tweetorial Hooks: Generative AI Tools to Motivate Science on Social Media.**
Tao Long, Dorothy Zhang, Grace Li, Batool Taraif, Samia Menon, Kynneddy Simone Smith, Sitong Wang, Katy Ilonka Gero, Lydia B. Chilton.
In International Conference on Computational Creativity (ICCC'23).
- 2023 [C.6] **PopBlends: Strategies for Conceptual Blending with Large Language Models.**
Sitong Wang, Savvas Petridis, Taeahn Kwon, Xiaojuan Ma, Lydia B. Chilton.
In ACM Conference on Human Factors in Computing Systems (CHI'23).
- 2022 [C.5] **Metaphoraction: Support Gesture-based Interaction Design with Metaphorical Meanings.**
Zhida Sun, Sitong Wang, Chengzhong Liu, Xiaojuan Ma.
In ACM Transactions on Computer-Human Interaction (TOCHI'22).
- 2022 [C.4] **Know it to Defeat it: Exploring Health Rumor Characteristics and Debunking Efforts on Chinese Social Media during COVID-19.**
Wenjie Yang, Sitong Wang*, Zhenhui Peng*, Chuhan Shi, Diyi Yang, Xiaojuan Ma.
In AAAI International Conference on Web and Social Media (ICWSM'22).
- 2021 [C.3] **MetaMap: Supporting Visual Metaphor Ideation through Multi-dimensional Example-based Exploration.**
Youwen Kang*, Zhida Sun*, Sitong Wang, Zeyu Huang, Ziming Wu, Xiaojuan Ma.
In ACM Conference on Human Factors in Computing Systems (CHI'21).
- 2020 [C.2] **“A Postcard from Your Food Journey in the Past”: Promoting Self-Reflection on Social Food Posting.**
Zhida Sun, Sitong Wang, Wenjie Yang, Onur Yürüten, Chuhan Shi, Xiaojuan Ma.
In ACM Designing Interactive Systems Conference (DIS'20).

2020 [C.1] **A Student Engagement Evaluation Methodology Inspired from Usability Engineering for Extracting Course Design Requirements.**
Sitong Wang, Panagiotis Apostolellis.
In American Society for Engineering Education Annual Conference (ASEE'20).

WORKSHOP PAPERS

2023 [W.1] **Writing with Generative AI: Multi-modal and Multi-dimensional Tools for Journalists.**
Sitong Wang, Lydia B. Chilton, Jeffery V. Nickerson.
In the Second Workshop on Intelligent and Interactive Writing Assistants (CHI'23 workshop).

Research Experience

2020-NOW **Computational Design Lab**, Columbia University
Advised by: [Lydia B. Chilton](#)
Developed an AI-driven interactive system to help journalists transform print articles into social media reels [C.9]; Designed an automated pipeline that combines knowledge extraction with large language models to blend a given topic with pop culture domains [C.6].

Summer 2023 **Interactive Creativity Lab**, Adobe Research
Advised by: [Dingzeyu Li](#), [Anh Truong](#), [Mira Dontcheva](#)
Derived design principles for video podcast teasers through interviews, designed a human-AI co-creative workflow, and implemented a Premiere plugin that integrates with creators' existing workflows, significantly easing their mental burden and enhancing efficiency [C.10].

Summer 2020 **Human-Computer Interaction Lab**, Hong Kong University of Science and Technology
Advised by: [Xiaojuan Ma](#), [Diyi Yang](#)
Conducted a literature survey on online health rumors, contributing to both quantitative and qualitative analyses [C.4]; Analyzed the visual metaphor creation process through interviews, contributed to user studies and framework design for visual metaphor ideation [C.3].

Summer 2019 **Human-Computer Interaction Lab**, Hong Kong University of Science and Technology
Advised by: [Xiaojuan Ma](#)
Helped propose an automated postcard generation system based on social media food posts to promote self-reflection on health [C.2]; Conducted a literature survey on mobile gestures and analyzed user interpretations from an MTurk study to derive design principles [C.5].

Teaching Experience

Fall 2023 **COMS 6998 Designing for Generative AI**
Teaching Assistant, Columbia University

Fall 2022 **COMS 6998 Advanced Web Design Studio**
Teaching Assistant, Columbia University

Spring 2020 **ENED 1120 Foundations of Engineering Design Thinking II**
Teaching Assistant, University of Cincinnati

Mentoring Experience

2024-NOW	Jenny Ma (Columbia CS masters student)
2024-NOW	Karthik Sreedhar (Columbia CS masters student)
2023-NOW	Samia Menon (Columbia CS undergraduate student) Incoming EECS PhD student at the University of California, Berkeley
2023-2024	Grace Li (Barnard CS undergraduate student) CS PhD student at the University of Chicago

Community Service

2025	Program Committee Member. The ACM conference on Creativity & Cognition (C&C)
2023-2025	Reviewer. The ACM Conference on Human Factors in Computing Systems (CHI)
2024-2025	Reviewer. The ACM Designing Interactive Systems conference (DIS)
2023-2024	Reviewer. The ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)
2023-2024	Reviewer. AAAI International Conference on Web and Social Media (ICWSM)
2024	Reviewer. The ACM Symposium on User Interface Software and Technology (UIST)
2024	Reviewer. The ACM conference on Creativity & Cognition (C&C)
2024	Reviewer. International Conference on Tangible, Embedded, and Embodied Interaction (TEI)
2024	Reviewer. International Journal of Human-Computer Interaction (IJHCI)
2024	Reviewer. ACM Transactions on Intelligent Systems and Technology (TIST)
2023	Reviewer. ACM Transactions on Computer-Human Interaction (TOCHI)
2022-2024	Volunteer. Columbia CS PhD Pre-submission Application Review Program

Professional Experience

Summer 2023	Interactive Creativity Lab , Adobe Research Research Scientist/Engineer Intern
Spring 2022	Alexa Mobile Application Development Group , Amazon Software Engineer
Summer 2021	Alexa Mobile Application Development Group , Amazon Software Engineer Intern
Spring 2018	Big Data Tool Development Group , CISDI Engineering User Interface Designer Intern