Sitong Wang

sitong@cs.columbia.edu | sitong-wang.github.io

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

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 Receipent**
Columbia University

Jun 2021   **Google CS Research Mentorship Program Class of 2021**
Google Research

Nov   **National Scholarship Recipient**
2017&2018   Chinese Ministry of Education

Publications

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 to ACM Designing Interactive Systems Conference (DIS'25).

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, Kynnedy 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)
2023-2024	Grace Li (Barnard CS undergraduate student) Now PhD student at the University of Chicago

Community Service

2025	**Program Committee Member.** The ACM conference on Creativity & Cognition (C&C)
2023-2024	**Reviewer.** The ACM Conference on Human Factors in Computing Systems (CHI)
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 Designing Interactive Systems conference (DIS)
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