

# 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 Iterative 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.  
*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.  
*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	<a href="#">Jenny Ma</a> (Columbia CS masters student) Incoming CS PhD student at Columbia University
2024-NOW	<a href="#">Karthik Sreedhar</a> (Columbia CS masters student) Incoming CS PhD student at Columbia University
2023-NOW	<a href="#">Samia Menon</a> (Columbia CS undergraduate student) Incoming EECS PhD student at the University of California, Berkeley
2023-2024	<a href="#">Grace Li</a> (Barnard CS undergraduate student) CS PhD student at the University of Chicago

## Community Service

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

## Professional Experience

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