

# Sitong Wang

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## 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 Recipient**  
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

### CONFERENCE AND JOURNAL PAPERS

- 2026 [C.14]      **Rewriting Video: Text-Driven Reauthoring of Video Footage.**  
Sitong Wang, Anh Truong, Lydia B. Chilton, Dingzeyu Li.  
*In ACM Conference on Intelligent User Interfaces (IUI'26).*
- 2025 [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).*
- 2025 [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).*  
**Best Paper Honorable Mention Award (Top 5%)**
- 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 Yürütен, 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).*
- UNDER SUBMISSION
- 2025 [M.5] **Schemex: Interactively Discovering Structural Abstractions from Examples.**  
Sitong Wang, Samia Menon, Dingzeyu Li, Xiaojuan Ma, Richard Zemel, Lydia B. Chilton.  
*Under submission.*

- 2025 [M.4] **DoubleAgents: Interactive Simulations for Alignment in Agentic AI.**  
 Tao Long\*, Xuanming Zhang\*, Sitong Wang, Zhou Yu, Lydia B. Chilton.  
*Under submission.*
- 2025 [M.3] **JumpStarter: Human-AI Planning with Task-Structured Context Curation.**  
 Xuanming Zhang\*, Sitong Wang\*, Jenny Ma, Alyssa Hwang, Andrew Head, Zhou Yu, Lydia B. Chilton.  
*Under submission.*
- 2025 [M.2] **Self-Rewarding Reinforcement Learning for Machine Translation.**  
 Wenjie Yang, Mao Zheng, Mingyang Song, Zheng Li, Sitong Wang.  
*Under submission.*
- 2025 [M.1] **Fostering Engagement in Creative Thinking.** *Chapter in Engagement in Human-Centered, Intelligent Computing*, Xiaojuan Ma (Ed.).  
 Zhida Sun, Sitong Wang.  
*Book under submission to CRC Press.*
- WORKSHOP PAPERS
- 2025 [W.2] **Schemex: Discovering Design Patterns from Examples with Iterative Abstraction and Refinement.**  
 Sitong Wang, Lydia B. Chilton.  
*In Tools for Thought: Research and Design for Understanding, Protecting, and Augmenting Human Cognition with Generative AI (CHI'25 workshop).*
- 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 2025 **STORIE Lab**, Adobe Research  
*Advised by: Dingzeyu Li and Anh Truong*  
 Researched generative video reconstruction algorithms and agentic workflows to develop adaptive, text-driven AI systems that support new forms of creative video production [C.14].
- 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

- 2023-NOW      [Samia Menon](#) (Columbia CS undergraduate student) EECS PhD student at the University of California, Berkeley
- 2024-2025      [Jenny Ma](#) (Columbia CS masters student) CS PhD student at Columbia University
- 2024-2025      [Karthik Sreedhar](#) (Columbia CS masters student) CS PhD student at Columbia University
- 2023-2024      [Grace Li](#) (Barnard CS undergraduate student) CS PhD student at the University of Chicago

## Community Service

- 2025      **Workshop Organizer.** Facilitating Longitudinal Interaction Studies of AI Systems. The ACM Symposium on User Interface Software and Technology (UIST)
- 2025      **Program Committee Member.** The ACM conference on Creativity & Cognition (C&C)
- 2023-2025      **Conference Reviewer.** ACL (2025), SIGGRAPH (2025), CHI (2023-2026), UIST (2024-2025), DIS (2024-2025), CSCW (2023-2024), ICWSM (2023-2024), C&C (2024), TEI (2024)
- 2023-2024      **Journal Reviewer.** IJHCI (2024), TIST (2024), TOCHI (2023)
- 2022-2024      **Volunteer.** Columbia CS PhD Pre-submission Application Review Program

## Professional Experience

- Sep 2022-NOW      **Computational Design Lab**, Columbia University  
Graduate Research Assistant
- Summer 2025      **STORIE Lab**, Adobe Research  
Research Scientist/Engineer Intern
- 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