

# Lu Sun — Curriculum Vitae

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## Research Interests

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Human-Computer Interaction, HCI x NLP, Learning science, Computational Social Science  
AI/LLM scaffolding for sense-making and writing, faithfulness and trustworthiness in text generation and evaluation, Human-AI collaboration for academic peer review

## Education

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**UC San Diego** **La Jolla, CA, United States**  
*PhD, Cognitive Science Department, The DesignLab* Sep. 2019 - Present

○ Advisor: **Prof. Steven Dow**

**Carnegie Mellon University, Human-Computer Interaction Institute(HCII)** **CA, United States**  
*Master specialized in learning science, HCII, School of Computer Science* Sep. 2017 - Sep. 2018

○ Advisor: **Prof. Diyi Yang, Prof. Robert E. Kraut, Prof. Kenneth R. Koedinger**

**Beijing University of Posts and Telecommunications(BUPT)** **Beijing, China**  
*Bachelor of Engineering, Telecommunication Engineering* Aug. 2013 - July. 2017

○ Advisor: **Prof. Wensheng Sun, Prof. Justine Cassell(at CMU)**

## Professional Experience

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**Microsoft Research, Office of Applied Research** June 2022 - Sep 2022  
Research Intern

○ Mentor: Bahareh Sarrafzadeh, Shilad Sen

**Amazon Science** June 2021 - Sep 2021  
Research Scientist Intern

○ Mentor: Vanessa Murdock, Barbara Pobleto, Max Harper, Chia-Jung Lee

## Peer-Reviewed Conference Publications

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[C1] **Lu Sun**, Stone Tao, Junjie Hu, and Steven P. Dow  
MetaWriter: Exploring the Potential and Perils of AI Writing Support in Scientific Peer Review  
*Accepted at The 26th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW' 23/24)*

[C2] **Lu Sun**, Hengyuan Zhang, Enze Liu, Mingyang Liu, and Kristen Vaccaro  
NewsGuesser: Using Curiosity to reduce selective exposure  
*Accepted at The 26th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW' 23/24)*

[C3] **Lu Sun**, Lillio Mok, Shilad Sen, Bahar Sarrafzadeh  
Rhythm of Work: Mixed-methods Characterization of Information Workers Scheduling Preferences and Practices Under Revision for The 26th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW' 23/24)

[C4] **Lu Sun**, Chia-Jung Lee, Vanessa Murdock, Barbara Pobleto and Max Harper  
Characterizing and Identifying Socially Shared Self-Descriptions in Product Reviews  
*In Proceedings of the 17th International AAAI Conference On Web and Social Media (ICWSM' 23)*

[C5] Enze Liu, **Lu Sun**, Alex Bellon, Grant Ho, Geoffrey M. Voelker, Stefan Savage, Imani N. S. Munyaka  
Understanding the Viability of Email Origin Indicators for Identifying the Sender  
*In Proceedings of the 19th Symposium on Usable Privacy and Security (SOUPS' 23)*

- [C6] Lillio Mok, **Lu Sun**, Shilad Sen, Bahareh Sarrafzadeh  
Challenging but Connective: Large-Scale Characteristics of Synchronous Collaboration Across Time Zones  
*In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI' 23)*
- [C7] **Lu Sun**, Yuhan Liu, Grace Joseph, Zhou Yu, Haiyi Zhu, Steven P. Dow  
Comparing Experts and Novices for AI Data Work: Insights on Allocating Human Intelligence to Design a Conversational Agent  
*In Proceedings of the AAAI Conference on Human Computation and Crowdsourcing (HCOMP' 22)*
- [C8] Brian McInnis, Leah Ajmani, **Lu Sun**, Krystal Zeng, Yvonne Hou, Steven P. Dow  
Reporting the Community Beat: Practices for Moderating Online Discussion at a News Website  
*In Proceedings of The 24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW' 21 (Impact Recognition Award))*
- [C9] Brian McInnis, **Lu Sun**, Jungwon Shin, Steven P. Dow  
Rare, but valuable: Understanding data-centered talk in news website comment sections  
*In Proceedings of The 23rd ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW' 20)*
- [C10] **Lu Sun**, Robert E. Kraut, Diyi Yang  
Multi-level Modeling of Social Roles in Online Micro-lending Platforms  
*In Proceedings of The 22nd ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW' 19)*
- [C11] Kenneth Koedinger, **Lu Sun**, Elizabeth A. McLaughlin  
Using a Hierarchical Model to Get the Best of Both Worlds: Good Prediction and Good Explanation  
*In Proceedings of the 11th International Conference on Educational Data Mining pp.588-591 (EDM' 18).*
- [C12] Yuntao Wang, Ke Sun, **Lu Sun**, Chun Yu, and Yuanchun Shi  
SkinMotion: what does skin movement tell us?  
*In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct, pp. 914-917. ACM, 2016. (UbiComp' 16 ADJUNCT).*

## Pre-print and Short Papers

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- [T1] **Lu Sun**, Aaron Chan, Yunseo Chang, Steven P. Dow  
Intelligent Scaffolding to Support a Workflow for Academic Peer Reviews  
*Under Review, Anonymized title for Peer Review*
- [T2] **Lu Sun**, Stone Tao, Junjie Hu, and Steven P. Dow  
Designing interactions with AI to support the scientific peer review process  
*Presented at the Forty-first International Conference on Machine Learning AI and HCI Workshop(ICML 2023 Human-AI Workshop)*

## Research Experience

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<b>UCSD, The Design Lab</b> Graduate Research Assistant ○ Advisor: Prof. Steven Dow, Prof. Kristen Vaccaro	July. 2019 - Present
<b>CMU HCII</b> Research Intern ○ Advisor: Prof. Haiyi Zhu	June. 2020 - Sep 2020
<b>CMU HCII x ETC</b> Fulltime Researcher	Sep. 2018 - July 2019
<b>CMU HCII</b> Research Intern	Jan 2018 - Jan 2019

- Advisor: Prof. Diyi Yang Prof. Robert E.Kraut. Prof. Kenneth R. Koedinger

## CMU LTI x HCII

Research Intern

Jan. 2017 - May 2017

- Advisor: Prof. Justine Cassell and Prof. Zhen Bai

## Technical Skills

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Programming Languages:

- Experienced: Python, javascript(React.js), html, css
- Familiar: Node.js, R

Experienced Frameworks and Tools:

- Framework: Fairseq, HuggingFace, pyTorch, OpenAI, Llama,
- APIs: Langchain, Semantic Graph, Grobid

ML and data science: applied machine learning, NLP application, model fine-tuning

Qualitative methods: user interview, thematic analysis, co-design workshop

Quantitative methods: A/B testing, experiment design

## Teaching and Service

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Teaching Assistant, UC San Diego

- DSGN 100 Prototyping, Fall 2023, Fall 2021, Fall 2020
- COGS 123 Social Computing, Fall 2022

Reviewer

- CSCW 2022, CSCW 2023
- CHI 2021, CHI 2022, CHI 2023

Mentorship

- Bei Pei (Grad Women in Computing Organization Mentees)
- Yutong Chen (Currently graduate student at CMU)
- Mingyuan Liu (Currently graduate student at UC San Diego)
- Stone Tao (Currently Phd student at UC San Diego)
- Yuhan Liu (Currently Phd student at Princeton University)