

# HE, QING

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Philadelphia, PA

## RESEARCH INTERESTS

Human–AI Interaction • Creativity and Knowledge Support • Computational Modeling of Human Cognition and Behavior

## EDUCATION

**University of Pennsylvania** | M.Arch. in Architecture **May 2024 – May 2027**  
Philadelphia, PA | GPA: 3.94/4.00  
**Renmin University of China** | B.E. in Computer Science; B.Ec. in Finance **Sep 2019 – Jul 2023**  
Beijing, China | GPA: 3.83/4.00; ranked 2/28

## RESEARCH EXPERIENCE

**University of Pennsylvania** | Research Assistant, Penn HCI Group **May 2026 – Present**  
Philadelphia, PA | Advisor: Prof. Danaé Metaxa

*Simulation for Architecture: From Stakeholder Experience Modeling to Design Support*

- Proposed the Experience Centered Spatial Simulation (ECSS) framework and built a proof-of-concept system for context-sensitive stakeholder experience simulation with generative agents.
- Evaluated the framework through case studies; resulting manuscript submitted to ACM CHI 2027 (under review).
- Conducting interviews with 10+ architects and students to guide a simulation tool for stakeholder-centered architecture design.

*Workflow Observation of LLM-Assisted Qualitative Coding | Penn–Stanford research collaboration*

- Leading a think-aloud study comparing how researchers with different experience levels use LLMs in qualitative coding, focusing on decision-making and appropriate reliance.

**Tsinghua University** | Research Assistant, Pervasive HCI Group **Jun 2025 – Sep 2025**  
Beijing, China | Advisor: Prof. Yuntao Wang

- Co-designed a two-stage study investigating the long-term effects of AI self-modeling on behavioral engagement: a one-week pilot (N=28) and a four-week study (N=31).
- Conducted user experiments and semi-structured interviews; co-authored the resulting CHI 2026 paper.

**Renmin University of China** | Research Assistant, NLPiR Laboratory **Jul 2021 – Apr 2024**  
Beijing, China | Advisor: Prof. Zhicheng Dou, Dr. Qiannan Zhu

- Investigated knowledge-graph approaches to explainable and personalized product search and recommendation; implemented machine learning models and ran experiments.
- Built an education RAG system for a university and contributed to research on recommendation fairness and transparency.

## PUBLICATIONS

- Qing He**, Zeyu Wang, Yuzhou Du, Jiahuan Ding, Yuanchun Shi, and Yuntao Wang. “Does Personalized Nudging Wear Off? A Longitudinal Study of AI Self-Modeling for Behavioral Engagement.” Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI), 2026.
- Emma Lurie, Emma Fauser, **Qing He**, Danae Metaxa, and Sorelle A. Friedler. “Triangulating Across U.S. Federal AI Transparency Regimes.” AAAI/ACM Conference on AI, Ethics, and Society (AIES), 2026.
- Qiannan Zhu, **Qing He**, Lingzhi Wang, and Mingming Li. “Enhancing Product Search with Query-Aware Multi-Facet Explanations through Hierarchical Graph Convolution.” ACM Transactions on Knowledge Discovery from Data (TKDD), 20(4), 2026.
- Qiannan Zhu, Haobo Zhang, **Qing He**, and Zhicheng Dou. “Query-Aware Explainable Product Search With Reinforcement Knowledge Graph Reasoning.” IEEE Transactions on Knowledge and Data Engineering (TKDE), 36(3):1260–1273, 2023.
- Qiannan Zhu, Haobo Zhang, **QingsHe**, and Zhicheng Dou. “A Gain-Tuning Dynamic Negative Sampler for Recommendation.” Proceedings of the ACM Web Conference (WWW), 277–285, 2022.

## MANUSCRIPTS UNDER REVIEW

- Qing He**, Danaé Metaxa. “Experience-Centered Spatial Simulation: A Generative-Agent Framework for Modeling Stakeholder Experience.” Submitted to ACM CHI 2027 (Under Review), 2026.

INDUSTRY EXPERIENCE

|                                                                                                                                                                                                                                                                                   |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Credo</b>   AI Academic Writing Tool · Co-Initiator                                                                                                                                                                                                                            | <i>Dec 2025 – Apr 2026</i> |
| Independent Project                                                                                                                                                                                                                                                               |                            |
| <ul style="list-style-type: none"><li>• Interviewed doctoral students to investigate intellectual authorship and agency when using AI writing assistants.</li><li>• Designed core human–AI interaction flows and led development of an LLM-assisted writing IDE.</li></ul>        |                            |
| <b>WeFun AI</b>   Product Manager                                                                                                                                                                                                                                                 | <i>Nov 2025 – Mar 2026</i> |
| Startup                                                                                                                                                                                                                                                                           |                            |
| <ul style="list-style-type: none"><li>• Led product design for an AI-powered interactive-content generation platform.</li><li>• Conducted user research to identify barriers to AI adoption and defined multi-agent collaboration workflows for non-technical creators.</li></ul> |                            |

TEACHING EXPERIENCE

|                                                                                                                                                             |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>University of Pennsylvania</b>   Teaching Assistant                                                                                                      | <i>Sep 2025 – May 2026</i> |
| Philadelphia, PA   Construction I (Fall 2025); Construction II (Spring 2026)                                                                                |                            |
| <ul style="list-style-type: none"><li>• Evaluated assignments, held office hours, and led review sessions supporting technical software learning.</li></ul> |                            |

LEADERSHIP & SERVICE

|                                                                                 |                                       |
|---------------------------------------------------------------------------------|---------------------------------------|
| <b>Reviewer</b> , AAAI/ACM Conference on AI, Ethics, and Society (AIES)         | <i>Jul 2025</i>                       |
| <b>Volunteer &amp; Newspaper Editor</b> , Left-Behind Children Outreach Program | <i>Jan 2020 – Dec 2025</i>            |
| <b>Studio Representative</b> , University of Pennsylvania                       | <i>Aug – Dec 2023, Aug – Dec 2024</i> |
| <b>Class Representative &amp; Vice Secretary</b> , Renmin University of China   | <i>Sep 2019 – Jul 2023</i>            |
| <b>Student Union President</b> , Zhangjiajie No.1 High School                   | <i>Sep 2017 – Jun 2019</i>            |

HONORS & AWARDS

|                                                                        |
|------------------------------------------------------------------------|
| Samuel K. Schneidman Fellowship, 2026                                  |
| Weitzman Scholarship, 2024, 2025, 2026                                 |
| AdventureX Hackathon Awards, 2025                                      |
| Charles Merrick Gay Scholarship, Harlan Coornvelt Memorial Prize, 2025 |
| Outstanding Graduates, Beijing, 2023                                   |
| First-Class Academic Scholarship, 2022                                 |
| Baidu Pinecone Talent Cultivation Practice Base, 2021                  |
| Interdisciplinary Contest in Modeling, Finalist, 2021                  |

TECHNICAL SKILLS & INTERESTS

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| AI / ML              | PyTorch, TensorFlow, scikit-learn, LangChain, knowledge graphs, computer vision. |
| Programming          | Python, C/C++, Java, JavaScript, React, Node.js, Electron, SQL.                  |
| Design & Prototyping | Figma, Rhino/Grasshopper, Unity, Unreal Engine, Arduino, 3D printing.            |
| Languages            | Mandarin Chinese (native), English (fluent).                                     |
| Interests            | Piano & Accordion, Pilates, Musical, Hiking.                                     |