

# Seraphina Yong

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## RESEARCH STATEMENT

I am interested in designing tools to support thoughtful social interactions and healthy interpersonal relationships, in a fast-paced era where we are losing the time and space to reflect on and maintain meaningful connections. Within HCI, my interdisciplinary research approach integrates principles of human perception, activity theory, as well as the multimodal and spatiotemporal characteristics of technology to understand, build, and evaluate systems to naturally facilitate conscious reflection upon social interactions. This can enhance people’s ability to actively engage in challenging but relationally-productive behaviors, such as becoming closer, addressing conflicts, or resolving misunderstandings. I design transformative social experiences that benefit emotional well-being using both emerging and established technologies, and mixed- and qualitative research methods.

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## RESEARCH INTERESTS

Human-Computer Interaction  
Social Reflection, Empathic Communication, and Well-Being  
Activity Theory and Situated Action  
Embodied Computing and Multimodal Perception

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## EDUCATION

Ph.D. Candidate, Department of Computer Science,  
University of Minnesota (Minneapolis, MN) — 2021- current  
Lab: GroupLens Research & Illusioneering Lab  
Advisors: Lana Yarosh, Evan Suma Rosenberg  
  
M.S., Department of Computer Science,  
National Tsing Hua University (Hsinchu, Taiwan) — 2017-2019  
  
B.S., Department of Computer Science,  
University of Chicago (Chicago, IL) — 2012-2016

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## WORK EXPERIENCE

GroupLens Lab and Illusioneering Lab,  
University of Minnesota, MN 2021-  
Graduate Researcher  
Primary Investigators: Lana Yarosh, Evan Suma Rosenberg  
Projects: Designing VR systems to support developing behavioral skills for interpersonal relationship management via embodied learning of others’ experiences; Developing an activity-based model of online friendship processes; Investigating teenagers’ use of generative AI in managing their social relationships  
  
OMRON SINIC X and The University of Tokyo,  
Tokyo, Japan 2024.05-2024.08  
Research Intern  
Primary Investigators: Shigeo Yoshida, Chi-Lan Yang, Atsushi Hashimoto, Hideaki Kuzuoka  
Projects: Designing and evaluating linguistically-stylized AI-generated conversation digests as poems to support reflective confrontation of communication failures in personal relationships

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NTU IoX Center Research Institute,  
National Taiwan University, Taiwan 2019-2021

Research Assistant

Primary Investigator: Robin Bing-Yu Chen

Projects: Enhancing recall of social emotional memory with thermal-augmented media; Developing collaborative health management methods for depressed older adults

Media and Interactives, Department of Exhibits,  
Field Museum of Natural History, IL 2016-2017

Digital Interactives Producer

Projects: Designing, building, evaluating tangible interfaces for education on science topics ranging from meteorites, mammals of Africa, and ancient Rome

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## PUBLICATIONS

### ✧ Refereed Conference Full Papers

Seraphina Yong, Ashlee Milton, Evan Suma Rosenberg, Stevie Chancellor, Svetlana Yarosh. "I'm Petting the Laptop, Which Has You Inside It": Reflecting on Lived Experiences of Online Friendship. *In Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2025)*

Seraphina Yong, Chi-Lan Yang, Atsushi Hashimoto, Hideaki Kuzuoka, Shigeo Yoshida. Poet-Weaver: Reflecting on Communication Failure in Personal Relationships With Stylized AI-Generated Conversation Digests. *In Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2025)*

Matthew Zent, Seraphina Yong, Dhruv Bala, Stevie Chancellor, Joseph A Konstan, Loren Terveen, Svetlana Yarosh. Beyond the Individual: A Community-Engaged Framework for Ethical Online Community Research. *In Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2025)*

Seraphina Yong, Leo Cui, Evan Suma Rosenberg, Svetlana Yarosh. A Change of Scenery: Transformative Insights from Retrospective VR Embodied Perspective-Taking of Conflict with a Close Other. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2024)*

Seraphina Yong, Min-Wei Hung, Chien-Wen Yuan, Chih-Chiang Chiu, Ming-Chyi Huang, Chuang-Wen You. Mind and Body: The Complex Role of Social Resources in Understanding and Managing Depression in Older Adults. *In Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2023)*

Ruei-Che Chang\*, Seraphina Yong\*, Fang-Ying Liao, Chih-An Tsao, Bing-Yu Chen. Understanding (Non-)Visual Needs for the Design of Laser-Cut Models. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2023)*

*\*Both authors contributed equally to this work.*

Jerald Thomas Jr., Seraphina Yong, Evan Suma Rosenberg. Inverse Kinematics Assistance for the Creation of Redirected Walking Paths. *In Proceedings of the IEEE/ACM Symposium on Mixed and Augmented Reality (ISMAR 2022)*

Ruei-Che Chang, Chih-An Tsao, Fang-Ying Liao, Seraphina Yong, Tom Yeh, and Bing-Yu Chen. Daedalus in the Dark: Designing for Non-Visual Accessible Construction of Laser-Cut Architecture. *In Proceedings of the ACM Symposium on User Interface Software & Technology (UIST 2021)*

Chiu-Hsuan Wang, Seraphina Yong, Hsin-Yu Chen, Yuan-Syun Ye, Liwei Chan. HMD Light: Sharing In-VR Experience via Head-Mounted Projector for Asymmetric Interaction. *In Proceedings of the ACM Symposium on User Interface Software & Technology (UIST 2020)*

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Chiu-Hsuan Wang, Chia-En Tsai, [Seraphina Yong](#), Liwei Chan. Slice of Light : Transparent and Integrative Transition Among Realities in a Multi-HMD User Environment. *In Proceedings of the ACM Symposium on User Interface Software & Technology (UIST 2020)*

#### ✂ Workshops and Posters

Matthew Zent, Stevie Chancellor, Casey Fiesler, Sarah Gilbert, Mohammad Rashidujjaman Rifat, C Estelle Smith, Svetlana Yarosh, [Seraphina Yong](#), Michael Zimmer. Context Matters: Ethical Challenges in Research with Online Communities. *Companion Publication of the 2025 Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2025)*

Zhanming Chen, Minghe Lu, Minzhu Zhao, Gaoxiang Luo, Benjamin Withey, [Seraphina Yong](#), Ji-Youn Shin. Empowering Farming Communities Through Information Tracking: A Design Approach to Crop Planning and Management. *(CHI 2025 Extended Abstract)*

[Seraphina Yong](#). Designing Agency-Preserving Reflection Systems to Support Reappraisal of Social Biases. *In Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing Companion, Understanding and Mitigating Cognitive Biases in Human-AI Collaboration (CSCW 2023)*

[Seraphina Yong](#), Min-Wei Hung, Chien Wen (Tina) Yuan, Chih-Chiang Chiu, Ming-Chyi Huang, Chuang-Wen You. Attitudes Toward Health and Communication in Depressed Older Adults. *In Proceedings of the ACM Conference on Computer Supported Cooperative Work and Social Computing Companion (CSCW 2020)*

[Seraphina Yong](#), Yuan-Chi Tseng, Hao-Chuan Wang. AuralTrace: Pitch-Based Sonified Referencing to Support Reception of Virtual Spatial Communication. *Taiwan Computer Human Interaction Conference (TAICHI 2019) [Best Paper Award]*

[Seraphina Yong](#), Hao-Chuan Wang. Using Spatialized Audio to Improve Human Spatial Knowledge Acquisition in Virtual Reality. *In Proceedings of the 23rd International Conference on Intelligent User Interfaces Companion (IUI 2018)*

Kuan-Yu Lin, [Seraphina Yong](#), Shuo-Ping Wang, Chien-Tung Lai, Hao-Chuan Wang. HandVis: Visualized Gesture Support for Remote Cross-Lingual Communication. *(CHI 2016 Extended Abstract)*

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## PROJECTS

**Understanding Perceived Authenticity in AI-Mediation of Adolescent Relationships, 2025—current**  
In our era of highly-integrated AI assistants, it is increasingly difficult to determine how AI has been used to aid in our daily activities, including not work-related tasks but also handling our social interactions and own mental health. This includes the use of AI to navigate or mediate close relationships, especially in times of conflict or vulnerability. This project investigates the implications of generative AI use on teenagers' peer friendships, which build the base for trust and social connection in later life.

### **Improving Other-Oriented Understanding and Communication Through Virtually-Embodied Experience Swapping, 2021—current**

Current VR systems and interoceptive technologies enhance feelings of empathy for others and self-regulation. Our work on VR other-embodiment in a situated context revealed that such experiences *also* stimulate higher-order cognitive functions such as qualitative learning of others' perspectives and communication change. To expand on this area, we develop an instrument to measure dimensions of social behavioral impacts of virtual embodiment experiences and design perception-informed interoceptive display techniques to synchronize the internal emotional experience of the empathy target and user.

### **Introducing Friction to Interpretation via Linguistically-Stylized AI Generated Conversation Digests to Support Reflection on Communication Failure, May 2024 — August 2024**

Generative AI can provide valuable support to interpersonal interactions as additional social agents and providers of advice, especially during challenging moments when people may be afraid of speaking to one

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another. However, ethical issues such as overreliance threaten users' perceived authenticity of their relationships, especially for personally-significant ones. We design and evaluate a generative AI chatbot which creates linguistically-stylized conversational summaries as *poems* to support difficult social conversations while introducing friction to encourage more critical discourse.

**Understanding Non-Visual Needs for Laser-Cut Architecture Design**, April 2021— Sept 2021

Laser-cutting is a convenient and promising prototyping method, but laser-cut models include an extra step of assembly which is a barrier to blind and visually-impaired (BVI) users. We conduct a mixed-methods study with both sighted and BVI users to compare their use of laser-cut model affordances and provide implications to support general sensory accessibility in laser-cut design.

**Designing Collaborative Health Management for Depressed Older Adults**, 2020 — 2021

Depressed older adults struggle with a complex interplay of mental and bodily symptoms that hinder treatment and need collaborative support from their social circles for health sensemaking and management. Through in-depth interviews to identify depressed older adults' health and social perceptions, we contribute targeted designs for collaborative solutions to support recovery.

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## AWARDS AND GRANTS

**GAANN Fellowship**, U.S. Department of Education 2025.06-present

**Empathy and Theory of Mind in Virtual Reality: Advancing Methods and Systems**

National Science Foundation (NSF) Small Grant | Human-Centered Computing (HCC)

Role: Lead Author under PI Lana Yarosh

Amount requested: \$600,000

Status: Submitted, May 2024

**ARCS and 3M Scholar** 2022-2024

**Three-Year Graduate Fellowship**, College of Science & Engineering, U. of Minnesota 2021-2024

**TAICHI 2019 Best Paper Award**

AuralTrace: Pitch-Based Sonified Referencing to Support Reception of Virtual Spatial Communication

**Dean's List**, University of Chicago 2012-2016

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## TEACHING

✧ Teaching Assistantships

Fall 2024 – CSCI 5127W: Embodied Computing

Spring 2025 – CSCI 5125: Collaborative and Social Computing

✧ Guest Lectures

04.2025 – CSCI 5125 – Sociality in Games

04.2025 – CSCI 5125 – Interviews and Qualitative Analysis

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## OTHER EXPERIENCE

**CHI 2026 Assistant to Subcommittee Chairs** (Interaction Beyond the Individual)

**ACM CHI Late-breaking Work Associate Chair** 2025

Blog writer for ACM UIST on Medium (read it [here](#))

**ACM CHI reviewer** 2020, 2021, 2022, 2023, 2024, 2025, 2026

**ACM CSCW reviewer** 2020, 2021, 2022, 2023, 2024, 2025

**International Journal of Child-Computer Interaction reviewer** 2025

**Frontiers in Psychiatry reviewer** 2025

**IEEE ISMAR reviewer** 2025

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IEEE VR reviewer 2024

CSCW Asia Winter School 2019, 2020

Attendee and presenter

CSCW Asia Winter School 2019

Attendee and presenter

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**PROFESSIONAL  
SKILLS**

**Programming:** OpenAI | Python | Discord | C# | C++ | R | JavaScript | HTML&CSS

**Software:** Unity | HTC Vive | Oculus | SteamVR | OpenVR | Blender | Git | JMP | SPSS

**Languages:** English (Native), Mandarin Chinese (Fluent)

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