IRENE YE YUAN

EDUCATION

Aug. 2017 - Present Ph.D. in Computer Science (HCI), Department of Computer Science and Engineering

University of Minnesota, Minneapolis, MN

Advisor: Lana Yarosh

Master of Human Computer Interaction + Design Sept. 2014 – Aug. 2015

University of Washington, Seattle, WA

Sept. 2010 – May 2014 B.A. in Computer Science, Mathematics and Physics

St. Olaf College, Northfield, MN

RESEARCH INTERESTS

Human-Computer Interaction, Human-centered AI, Computer-Supported Cooperative Work, Conversational Agents, Data Visualization

SELECTED PUBLICATIONS

Refereed Journal Articles

Yuan, Y., Thompson, S., Watson, K., Chase, A., Senthilkumar, A., Brush, A.J.B. Yarosh, S., 2019. "Speech interface reformulations and voice assistant personification preferences of children and parents." International Journal of Child-Computer Interaction. https://doi.org/10.1016/j.ijcci.2019.04.005.

Refereed Conference Yu, B., Yuan, Y., Terveen, L., Wu, Z., Forlizzi, J., and Zhu, H. 2020. "Keeping Designers in the Loop: Full Papers Communicating Inherent Algorithmic Trade-offs Across Multiple Objectives". In *Proceedings of the* 2020 ACM Designing Interactive Systems Conference (DIS '20). ACM, 1245–1257. https://doi. org/10.1145/3357236.3395528.

> Kawas, S., Yuan, Y., DeWitt, A., Jin, Q., Kirchner, S., Bilger, A., Grantham, E., Kientz, J.A., Tartaro, A., & Yarosh, S. 2020. "Another decade of IDC research: examining and reflecting on values and ethics". In Proceedings of the Interaction Design and Children Conference (IDC '20). ACM, 205-215. https://doi. org/10.1145/3392063.3394436.

McRoberts, S., Yuan, Y., Watson, K., & Yarosh, S. "Behind the Scenes: Design, Collaboration, and Video Creation with Youth." In Proceedings of the 18th ACM Conference on Interaction Design and Children (IDC '19). ACM, 173-184, https://doi.org/10.1145/3311927.3323134.

Yuan, Y., and Yarosh, S. 2019. "Beyond Tutoring: Opportunities for Intergenerational Mentorship at a Community Level." In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19). ACM, 449:1–449:14, https://doi.org/10.1145/3290605.3300679. Honorable Mention Award

Yarosh, S., Thompson, S., Watson, K., Chase, A., Senthilkumar, A., Yuan, Y., Brush, A.J.B. 2018. "Children Asking Questions: Speech Interface Reformulations and Personification Preferences." In Proceedings of the 17th ACM Conference on Interaction Design and Children (IDC '18). ACM, 300-312, https://doi.org/10.1145/3202185.3202207. Best Paper Award

PROFESSIONAL SKILLS

Programming Languages

C/C++, C#, HTML&CSS, Java, JavaScript, Matlab, Python, R, SQL

Programming Frameworks

Machine Learning

Pandas, scikit-learn, SciPy, Gensim

Web & Visualization D3.js, Processing / p5.js, Flask, React, Node.js

Platforms and Tools

Programming Jupyter notebook, Android Studio, Arduino, MySQL, Unity

Design Adobe Creative Suite, Axure, Figma, Framer, Sketch

Research & Design

User Research A/B Testing, Benchmarking, Contextual Inquiry, Experiment Design, Focus Group, Interview, Observation,

Participatory Design, Survey, Usability Testing

Design Prototyping (Low-High Fidelity), Persona, Storyboarding, Wireframing

PROFESSIONAL EXPERIENCE

Aug. 2017 - Present

Graduate Researcher, GroupLens Lab, University of Minnesota, Minneapolis, MN

Utilize both qualitative and quantitative to understand how people use current technologies and opportunities for technologies to better support their activities; Design, develop and evaluate new technologies; Communicate study findings in both written reports and oral presentations. Some previous research projects included:

- Employed a user-centered design approach to design and develop an interactive visualization tool for helping designers and non-expert stakeholders understand trade-offs in machine learning models; Evaluated the tool via online experiment and expert interview to understand the outcomes;
- · Conducted an experiment to understand children's reformulation strategies when interacting with different designs of conversational agents, and understand design opportunities for conversational agents to better support families' needs;
- Conducted a field study with different stakeholders to understand the current practices of a community mentorship program, and translated research findings into design directives for new system design and development.

Nov. 2016 – Jul. 2017

User Experience Specialist III, Lexis Nexis, Shanghai, China

Lead designer for cross-platform legal products from user research, ideation, design, testing to release; Collaborated closely with product and engineering teams from different locations throughout the product cycle and facilitated the communications between teams

Sept. 2015 – June 2016 Interaction Designer, IA Collaborative, Chicago, IL

Collaborated with design researchers and visual designers to create omni-channel solutions and designed user experiences based on user needs and business requirements; Helped interaction design team utilize new prototyping tools by creating tutorials and teaching the team development knowledge

PROFESSIONAL & COMMUNITY SERVICE

2018 - Current ACM CHI, CSCW, IDC Conference Reviewer Student Volunteer, ACM IDC 2020, ACM CHI 2015