Qisheng Li

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EDUCATION

09/2017 - 08/2022 **University of Washington** Seattle, WA
Ph.D. in Computer Science & Engineering
Advisor: Katharina Reinecke
Committees: Tim Althoff, James Fogarty, Adam Fourney, Alexis Hiniker
GPA: 3.91

09/2013 - 05/2017 **Macalester College** St. Paul, MN
B.A. in Computer Science, Mathematics, Economics
GPA: 3.85

WORK EXPERIENCE

Quantitative UX Researcher March 2025 - Present
Google

- Defined the core metrics framework for established and novel 0-to-1 products, translating needs from stakeholders into quantifiable goals that now guide product strategy
- Engineered data infrastructure and automated data pipelines using SQL and Python to instrument and track key product health metrics, enabling real-time UX and adoption monitoring
- Delivering critical insights about consumer and enterprise customers, directly influencing the road maps for various product features

Research Scientist July 2023 - March 2025
Meta, Reality Lab Research

- Develop first-person goal inference models in complex scenarios by integrating multimodal signals (visual, audio, gaze, etc.) and temporal dynamics; conduct systematic experiments to evaluate the influence of various factors
- Design and manage the data pipeline for model training and benchmarking, by defining FRD and KPI for models, data collection protocols, evaluation metrics, and executing the data collections
- Mentoring research scientist interns on various Human-AI Interaction (HAI) projects

AI/ML Resident July 2022 - July 2023
Apple, Human-Centered Machine Intelligence

- Initiated two AI for accessibility projects, optimizing various camera-based technologies for the visually impaired; overseeing the entire dev cycle from conceptualization, user research, design mock-ups and prototyping, to application evaluation
- Evaluated the integration of LLMs by quantifying the safety implications for accessibility use cases
- Closely collaborated with XFN teams to integrate research outcomes into product strategies

Research Intern Fall 2021
Google Research - Project Euphonia

- Explored how compression techniques affect automatic speech recognition (ASR) performance for impaired speech
- Developed novel metrics adapting BERTScore for ASR evaluation (as a supplement to traditional metrics such as Word Error Rate)

Research Intern Summer 2021
Microsoft Research

- Conducted research on how to tailor text-to-speech (TTS) for emergent dyslexic readers
- Designed and conducted a web-based reading study to evaluate different text-to-speech interventions with grade 3-5 students with and without dyslexia
- Analyzed the study results qualitatively and quantitatively, which impact the design of Microsoft Digital Learning Tools

Research Intern Spring 2021
Adobe Research

- Developed a survey and implemented a web-based study to collect reading-aloud data from people with and without dyslexia
- Analyze the audio data from 100+ participants with signal processing and visualization techniques
- Created qualitative annotations collaboratively with audio and prosody experts

Research Intern Summer 2019
Adobe Research

- Conducted formative studies with newsletters designers through in-depth interviews
- Developed a data-driven tool for newsletters style adaptation using machine learning
- Filed Patent (US011397843B1): Systems for suggesting content components.

Research Assistant 09/2017 - 07/2022
Paul G. Allen School of Computer Science & Engineering
Advisor: Katharina Reinecke

- Designed, developed, conducted and analyzed large-scale online experiments with 350k+ participants to assess participants' perceptual and behavioral skills
- Designed and evaluated novel methods to enable conducting diverse and rigorous experiments online at scale
- Conducted in-depth interviews with experiment participants and healthcare professionals to inform best practices of designing health-related online studies
- Led the core development team of LabintheWild

SELECTED PUBLICATIONS

Peer-reviewed Full Papers

[P12] Our Collective Voices: The Social and Technical Values of a Grassroots Chinese Stuttered Speech Dataset
FAccT 2025
Jingjin Li*, **Qisheng Li***, Rong Gong, Lezhi Wang, Shaomei Wu

[P11] "I Want to Publicize My Stutter": Community-led Collection and Curation of Chinese Stuttered Speech Data
PACM HCI (CSCW 2024)
Qisheng Li, Shaomei Wu

[P10] AS-70: A Mandarin stuttered speech dataset for automatic speech recognition and stuttering event detection

Interspeech 2024
Rong Gong, ..., **Qisheng Li**, ..., Ming Li

[P9] Readability research: An interdisciplinary approach
Foundations and Trends in Human–Computer Interaction, 2022.
Sofie Beier, ..., **Qisheng Li**, ..., Benjamin Wolfe

[P8] How Online Tests Contribute to the Support System for People With Cognitive and Mental Disabilities
ASSETS 2021
Best Paper Award
Qisheng Li, Josephine Lee, Christina Zhang, Katharina Reinecke

[P7] The Effect of Moderation on Online Mental Health Conversations
ICWSM 2021
Best Paper Award (Outstanding Study Design)
David Wadden, Tal August, **Qisheng Li**, Tim Althoff

[P6] Voicemoji: Emoji Entry Using Voice for Visually Impaired People
CHI 2021
Mingrui Ray Zhang, Ruolin Wang, Xuhai Xu, **Qisheng Li**, Ather Sharif, Jacob O. Wobbrock

[P5] The Virtual Chinrest: Controlling for Participants' Viewing Distance in Large-Scale, Psychophysical Online Experiments
Scientific Reports. **10**, 904, 2020.
Qisheng Li, Sung Jun Joo, Jason Yeatman, Katharina Reinecke

[P4] Latent Space Cartography: Visual Analysis of Vector Space Embeddings
Computer Graphics Forum (Proc. EuroVis), 2019
Yang Liu, Eunice Jun, **Qisheng Li**, Jeffery Heer

[P3] The Impact of Web Browser Reader Views on Reading Speed and User Experience
CHI 2019.
Qisheng Li, Meredith Ringel Morris, Adam Fourney, Kevin Larson, Katharina Reinecke

[P2] Volunteer-Based Online Studies With Older Adults and People with Disabilities
ASSETS 2018.
Qisheng Li, Krzysztof Z. Gajos, Katharina Reinecke

[P1] Cartograph: Unlocking Thematic Cartography Through Semantic Enhancement
IUI 2017.
Shilad Sen, Anja Beth Swoap, **Qisheng Li**, Brooke Boatman, Ilse Dippenaar, Rebecca Gold, Monica Ngo, Sarah Pujol, Bret Jackson, Brent Hecht

Peer-reviewed Short Papers/Posters

[S4] Towards Fair and Inclusive Speech Recognition for Stuttering: Community-led Chinese Stuttered Speech Dataset Creation and Benchmarking
CHI Late-Breaking Work 2024.
Qisheng Li, Shaomei Wu

[S3] Designing a Proactive Context-Aware AI Chatbot for People's Long-Term Goals
CHI Late-Breaking Work 2024.
Brennan Jones, Yan Xu, **Qisheng Li**, Stefan Scherer

[S2] Assessing ASR Model Quality on Disordered Speech using BERTScore
Proc. 1st Workshop on Speech for Social Good (S4SG), 2022.
Jimmy Tobin, **Qisheng Li**, Subhashini Venugopalan, Katie Seaver, Richard Cave, Katrin Tomanek

[S1] Respectful Language as Perceived by People with Disabilities
ASSETS 2021.
Lior Levy, **Qisheng Li**, Ather Sharif, Katharina Reinecke

See full publication: Google Scholar

PATENTS

[P1] Systems for Suggesting Content Components
Tak Yeon Lee, Sana Lee, Ryan Rossi, **Qisheng Li**, Fan Du, Eunyee Koh

HONORS AND AWARDS

10/2021	**Best Paper Award**	ASSETS'21
06/2021	**Best Paper Award (Outstanding Study Design)**	ICWSM'21
08/2020	**College of Engineering Quarter Fellowship** *Three recipients from Computer Science & Engineering*	University of Washington
04/2019	**Grad Cohort Scholarship Recipient**	CRA - W
05/2017	**The Konhauser Achievement Award for Computer Science** *One recipient from MSCS department*	Macalester College
05/2017	**John M. Dozier Prizes in Economics** *Nine recipients from Economics department*	Macalester College

TEACHING EXPERIENCE

University of Washington, Seattle, WA — 09/2017 - 05/2022
Teaching Assistant, Paul G. Allen School of Computer Science & Engineering

CSE-440	Introduction to HCI (Prof. James Fogarty)	*Winter 2020/Spring 2022*
CSE-440	Introduction to HCI (Prof. Katharina Reinecke)	*Winter 2022*
CSE-441	HCI Capstone (Prof. Katharina Reinecke)	*Spring 2020*
CSE-421	Introduction to Algorithms (Prof. Paul Beame)	*Fall 2017*

Macalester College, St.Paul, MN — 01/2016 - 05/2017
Teaching Assistant, Mathematics, Statistics and Computer Science Department

COMP-123	Core Concepts in Computer Science	*Spring 2016/2017*
COMP-124	Object-oriented Programming and Data Structure	*Spring 2017*
COMP-240	Computer Systems and Organizations	*Fall 2016*

STUDENT ADVISING AND MENTORSHIP

2023 - 2025	Nahyun Kwon (PhD Student)	Meta
	Simret Araya Gebreegziabher (PhD Student)	Meta
	Aishwarya Pai (master graduate)	AImpower.org
2020 - 2022	Lior Levy (master student)	University of Washington
	Josie Lee (master student)	University of Washington
	Christina Zhang (undergrad)	University of Washington

TALKS

Feb 2022	Apple Human-Centered Machine Intelligence	Seattle, WA
October 2021	Google Research AI for Social Good	Seattle, WA
March 2020	Google Research Central Accessibility Team	Mountain View, CA
April 2019	Microsoft Advanced Reading Technologies Team	Redmond, WA
Nov 2018	UW CSE Colloquium on Accessibility	Seattle, WA

PROFESSIONAL SERVICE

Research Fellow	AImpower.org
Program Committee	ASSETS'24, CSCW'24
Reviewer	CSCW'20-24, CHI'19-24, DIS'24, ICWSM'23, IJHCS
Volunteer	CSCW'18 PC Meetings

DEPARTMENT AND UNIVERSITY SERVICE

2018-19	CSE Interactive Systems Seminar Organizer	University of Washington
2019-21	CSE PhD Program Admissions Reviewer & Organizer	University of Washington
2019	DUB Retreat Organizing Committee	University of Washington
2018-19	UW CSE Graduate Student Mentor	University of Washington