

Hye Sun Yun

Khoury College of Computer Sciences,
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RESEARCH INTERESTS

Human-AI Interaction, Responsible AI, Human-Computer Interaction, Natural Language Processing, & Healthcare

EDUCATION

Northeastern University <i>Ph.D. in Computer Science</i> Advisors: Byron C. Wallace and Timothy Bickmore Expected Graduation: Spring 2026	2020–Present Boston, MA
Northeastern University <i>M.S. in Computer Science</i>	2024 Boston, MA
Wellesley College <i>B.A. in Computer Science and Africana Studies</i> Magna Cum Laude; Phi Beta Kappa	2013–2017 Wellesley, MA

TEACHING EXPERIENCE

Instructor of Record

Intermediate Programming with Data (DS2500) – with Deahan Yu <i>Northeastern University</i> 1 out of 4 lecture sections, 200+ students for course, 15 TAs	Fall 2025
Special Topics: Research in Human-Centered NLP (CS4983/6983) <i>Northeastern University</i> 1 lecture section, 10 students	Spring 2025

Teaching Assistant

• Introduction to CS Research (CS3950) at Northeastern University	Fall 2024
• Quality Assurance to Quality Engineer Program at Wayfair	Fall 2019
• MVC Framework Course at Wayfair	2019–2020
• Tangible User Interfaces (CS320) at Wellesley College	Fall 2016
• Languages & Automata (CS235) at Wellesley College	Fall 2016
• Algorithms (CS231) at Wellesley College	Spring 2016
• Beginning Japanese (JPN101,102) at Wellesley College	2014–2015

Workshops

Introduction to GitHub (Khoury SHEROs of Color Hackathon)

March 2025

Instructor at Northeastern University

Guest Lectures

“Virtual Agents for Health Behavior Change”

Fall 2022

Course: CS3950 Introduction to CS Research at Northeastern University

PUBLICATIONS

Peer-Reviewed Conference Papers

1. **Hye Sun Yun**, Karen Y.C. Zhang, Ramez Kouzy, Iain J. Marshall, Junyi Jessie Li, & Byron C. Wallace. [“Caught in the Web of Words: Do LLMs Fall for Spin in Medical Literature?”](#) In *Proceedings of Conference on Health, Inference, and Learning (CHIL)*, 2025.
2. **Hye Sun Yun** & Timothy Bickmore. [“Framing Health Information: The Impact of Search Methods and Source Types on User Trust and Satisfaction in the Age of LLMs.”](#) In *Proceedings of the Extended Abstracts of the CHI Conference*, 2025.
3. **Hye Sun Yun**, David Pogrebetskiy, Iain J. Marshall, & Byron C. Wallace. [“Automatically Extracting Numerical Results from Randomized Controlled Trials with Large Language Models.”](#) In *Proceedings of the Machine Learning for Healthcare (MLHC) Conference*, 2024.
4. Mina Fallah, Farnaz Nouraei, **Hye Sun Yun**, & Timothy Bickmore. [“Investigating User Perceptions of Collaborative Agenda Setting in Virtual Health Counseling Session.”](#) In *Proceedings of the ACM International Conference on Intelligent Virtual Agents (IVA)*, 2024.
5. **Hye Sun Yun**, Iain J. Marshall, Thomas A. Trikalinos, & Byron C. Wallace. [“Appraising the Potential Uses and Harms of LLMs for Medical Systematic Reviews.”](#) In *Main Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2023.
6. Prasanth Murali, Ian Steenstra, **Hye Sun Yun**, Ameneh Shamekhi, & Timothy Bickmore. [“Improving Multiparty Interactions with a Robot Using Large Language Models.”](#) In *Proceedings of the Extended Abstracts of the CHI Conference*, 2023.
7. **Hye Sun Yun**, Matias Volonte, & Timothy Bickmore. [“Motivating health behavior change with a storytelling virtual agent.”](#) In *Proceedings of the ACM International Conference on Intelligent Virtual Agents (IVA)*, 2022.

Journal Articles

1. **Hye Sun Yun** & Timothy Bickmore. [“Online Health Information–Seeking in the Era of Large Language Models: Cross-Sectional Web-Based Survey Study.”](#) *Journal of Medical Internet Research (JMIR)*, Volume(27), 2025.
2. Iain J. Marshall, Thomas A. Trikalinos, Frank Soboczenski, **Hye Sun Yun**, Gregory Kell, Rachel Marshall, & Byron C. Wallace. [“In a pilot study, automated real-time systematic](#)

review updates were feasible, accurate, and work-saving.” *Journal of Clinical Epidemiology*, Volume(153), 2023.

Workshop Papers

1. **Hye Sun Yun**, Shuo Zhou, Everlyne Kimani, Stefan Olafsson, Teresa K. O’Leary, Dhaval Parmar, Jessica A. Hoffman, Stephen S. Intille, Michael K. Paasche-Orlow, & Timothy Bickmore. “[Techno-spiritual Engagement: Mechanisms for Improving Uptake of mHealth Apps Designed for Church Members.](#)” In *HEALTHI at Conference on Intelligent User Interfaces (IUI)*, 2022.

Media Articles

1. Teresa K. O’Leary, Elizabeth Stowell, Darley Sackitey, **Hye Sun Yun**, David Wright, Michael K. Paasche-Orlow, Timothy Bickmore, & Andrea G. Parker. “[Church after Sunday: supporting everyday well-being through techno-spiritual health interventions.](#)” In *ACM Interactions*, 2022.

PROFESSIONAL EXPERIENCE

Truveta

Summer 2024

AI/ML Research Intern

Remote (Seattle, WA)

Mentors: Saman Zarandioon, Mehraveh Salehi, Sadra Naddaf

- Conducted research in the field of LLMs and clinical notes investigating quality and diversity of training data for clinical concept extraction
- Explored methods to optimize a generalized clinical concept extraction LLM

Wayfair

2017–2020

Full-Stack Software Engineer/Manager

Boston, MA

- Developed and implemented features for a supplier-facing web tool, enabling efficient bulk addition of new products to the catalog
- Successfully spearheaded two major, multi-phase refactoring initiatives: frontend migration from Tungsten to React and Redux and completely rewriting the team’s Excel sheet import service
- Provided guidance and mentorship during rapid team growth, facilitating the onboarding of 10+ new hires
- Led team-wide adoption of pair programming to foster collaboration and knowledge sharing and established a program to train new code reviewers
- Managed and led a team of three software engineers, cultivating a collaborative and productive work environment, and ensuring successful project delivery

RESEARCH MENTORSHIP

Karen Y.C. Zhang, B.S. in Computer Science at *Northeastern University*
2025

Spring–Summer

Patrick Wilson , Master's in Public Health at <i>King's College London</i>	Spring–Fall 2024
David Pogrebitskiy , B.S. in Data Science at <i>Northeastern University</i>	Spring 2024
Nikita Salkar , M.S. in Computer Science at <i>Northeastern University</i>	Spring 2022

SERVICE & OUTREACH

Northeastern University Institutional Service

PhD Open House <i>Student Panelist & Prospective Student Buddy</i>	2021 & 2024
Pathway to PhD Workshop <i>PhD Student Panelist</i>	Summer 2022
Wellesley College Research Students' Visit <i>PhD Student Panelist</i>	Summer 2022
PhD Hiring Committee <i>Faculty Application Reviewer</i>	2022
PhD CS Admissions Committee <i>PhD Student Application Reviewer</i>	2021

Community Engagement

Code to PhD <i>PhD Application Support Program Mentor</i>	Fall 2025-Present
Khoury SHEROs of Color <i>PhD Student Panelist & Hackathon Mentor</i>	Spring 2025
Queer in AI <i>Graduate School Application Review Program Mentor</i>	Fall 2023
Wayfair's Women+ in Software <i>Co-founder & Leader</i>	2019–2020

Peer Reviewer

Conferences

CHI 2023 & 2025
 Machine Learning for Healthcare (MLHC) 2025
 Conference on Language Modeling (COLM) 2025
 IEEE Virtual Reality 2025
 Intelligent Virtual Agents (IVA) 2023–2025
 Autonomous Agents and Multiagent Systems (AAMAS) 2023
 IEEE International Symposium on Mixed and Augmented Reality (ISMAR) 2023

Journals

International Journal of Human-Computer Studies 2025
Journal of Medical Internet Research (JMIR) 2025
Cochrane Evidence Synthesis and Methods 2025
Research Synthesis Methods 2024–2025

Workshops

ACL Workshop on Human-Centered Large Language Modeling 2024
NeurIPS Workshop on Robustness in Sequence Modeling 2022
ACM Web Conference Workshop on UserNLP 2022

TALKS

1. [“Beyond Hallucinations: Unveiling Hidden Dangers of LLMs in Health Information Access”](#) (June 2025). Invited talk. Wellesley College.
2. [“Beyond Hallucinations: Unveiling Hidden Dangers of LLMs in Health Information Access”](#) (April 2025). Invited talk at Department Seminar. Clemson University.
3. [“Charting My CS Career Path: From Wellesley to Industry and PhD”](#) (Nov. 2024). Invited talk. Wellesley College Hackathon.
3. “Automatically Extracting Numerical Results from RCTs with LLMs” (Oct. 2024). Invited talk. [Codametrix](#) Reading Group.
4. “Using LLMs to Maintain User Engagement in Repeated Virtual Agent Interviews” (Sept. 2024). Conference talk. IVA 2024.
5. “Techno-spiritual Engagement: Mechanisms for Improving Uptake of Church mHealth App” (March 2022). Workshop talk. IUI HEALTHI Workshop 2022.
6. “Longitudinal Analysis of African-American Vaccine Attitudes on Social Media” (Dec. 2021). Rapid Research Talk with Silvio Amir. PRISM Health Symposium. **[Best Rapid-Fire Presentation Award]**

PRESS COVERAGE

1. [“Dr. Google Starts Sharing Regular Folks’ Advice As Chatbots Loom”](#) by Michael L. Millenson. *Forbes*, May 2025

PROFESSIONAL DEVELOPMENT

Graduate Postsecondary Teaching Certificate Program Northeastern University, <i>Boston, MA</i>	2024–Present
CSST Summer Research Institute Consortium for the Science of Sociotechnical Systems, <i>Syracuse University</i>	Summer 2025
NRMN’s Research Mentor Training National Research Mentoring Network, <i>Northeastern University</i>	Summer 2024

CRA-WP Grad Cohort for Women

Spring 2023

Computing Research Association–Widening Participation, *San Francisco, CA*

ACL Year-Round Mentorship

2022

Association for Computational Linguistics, *Remote*

SKILLS

Tools/Platforms: pyTorch, Huggingface, scikit-learn, statsmodels, Pandas, Azure, Google Cloud Platform (GCP), Docker, Weights & Biases, Prolific, Node.js, REST API, Flask, .NET Core

Front-end: React, Redux, Vue.js, HTML5, CSS, SASS, Jekyll

Databases: MySQL, SQLite, PostgreSQL, MS SQL Server

Programming Languages: Python, Java, Javascript, C#, SQL, R, \LaTeX , Shell, PHP, C

Human Languages: Korean and English (bilingual), Japanese (beginner), Swahili (novice)

Last updated: August 19, 2025