

# Hye Sun Yun

Khoury College of Computer Sciences,  
Northeastern University

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## RESEARCH INTERESTS

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

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## EDUCATION

<b>Northeastern University</b> <i>Ph.D. in Computer Science</i> Advisors: Byron C. Wallace and Timothy Bickmore Expected Graduation: Spring 2026	2020–Present Boston, MA
<b>Northeastern University</b> <i>M.S. in Computer Science</i>	2022 Boston, MA
<b>Wellesley College</b> <i>B.A. in Computer Science and Africana Studies</i> Magna Cum Laude; Phi Beta Kappa	2013–2017 Wellesley, MA

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## TEACHING EXPERIENCE

### *Instructor of Record*

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

<b>Introduction to GitHub Workshop (Khoury SHEROs of Color Hackathon)</b> <i>Instructor at Northeastern University</i>	March 2025
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### *Guest Lectures*

<b>“Virtual Agents for Health Behavior Change”</b> <i>Course: CS3950 Introduction to CS Research at Northeastern University</i>	Fall 2022
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## 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 Pogrebitskiy, 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 *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 story-telling 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.

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## PROFESSIONAL EXPERIENCE

### Truveta

AI/ML Research Intern

Summer 2024

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

Full-Stack Software Engineer/Manager

2017–2020

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

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## RESEARCH MENTORSHIP

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

Spring–Summer 2025

Patrick Wilson, Master's in Public Health at *King's College London*

Spring–Fall 2024

David Pogrebitskiy, B.S. in Data Science at *Northeastern University*

Spring 2024

Nikita Salkar, M.S. in Computer Science at *Northeastern University*

Spring 2022

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## SERVICE & OUTREACH

### *Northeastern University Institutional Service*

#### PhD Open House

2021 & 2024

*Student Panelist & Prospective Student Buddy*

#### Pathway to PhD Workshop

Summer 2022

*PhD Student Panelist*

#### Wellesley College Research Students' Visit

Summer 2022

*PhD Student Panelist*

#### PhD Hiring Committee

2022

*Faculty Application Reviewer*

#### PhD CS Admissions Committee

2021

*PhD Student Application Reviewer*

### *Community Engagement*

#### Code to PhD

Fall 2025–Present

*PhD Application Support Program Mentor*

<b>Khoury SHEROs of Color</b> <i>PhD Student Panelist, GitHub Workshop Instructor, &amp; Hackathon Mentor</i>	Spring 2025
<b>Queer in AI</b> <i>Graduate School Application Review Program Mentor</i>	Fall 2023
<b>Wayfair's Women+ in Software</b> <i>Co-founder &amp; 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

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#### **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. 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. [Codamatrix](#) Reading Group.
4. **“Using LLMs to Maintain User Engagement in Repeated Virtual Agent Interviews”** (Sept. 2024). Conference talk at IVA 2024.
5. **“Techno-spiritual Engagement: Mechanisms for Improving Uptake of Church mHealth App”** (March 2022). Workshop talk at IUI HEALTHI Workshop 2022.
6. **“Longitudinal Analysis of African-American Vaccine Attitudes on Social Media”** (Dec. 2021). Talk at PRISM Health Symposium. *[Best Rapid-Fire Presentation Award]*

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## PRESS

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

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## PROFESSIONAL DEVELOPMENT

<b>Graduate Postsecondary Teaching Certificate Program</b> Northeastern University, <i>Boston, MA</i>	2024–Present
<b>Consortium for the Science of Sociotechnical Systems Summer Research Institute</b> CSST, <i>Syracuse University</i>	Summer 2025
<b>National Research Mentoring Network’s Research Mentor Training</b> NRMN – Northeastern University, <i>Boston, MA</i>	Summer 2024
<b>CRA-WP Grad Cohort for Women</b> CRA-WP, <i>San Francisco, CA</i>	Spring 2023
<b>ACL Year-Round Mentorship</b> ACL, <i>Remote</i>	2022

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## 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, ~~W~~TeX, Shell, PHP, C

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

*Last updated: August 13, 2025*