

# Hye Sun Yun

Curriculum Vitae  
(last updated May 28, 2022)

PhD Student at Northeastern University  
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## EDUCATION

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|---|---------------------|
| <b>PhD in Computer Science</b><br><i>Northeastern University, Boston, MA</i><br>Advised by Timothy Bickmore and Byron Wallace | <b>2020-Present</b> |
| <b>B.A. in Computer Science and Africana Studies, <i>magna cum laude</i></b><br><i>Wellesley College, Wellesley, MA</i>       | <b>2013-2017</b>    |

## RESEARCH EXPERIENCE

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|---|---------------------|
| <b>Research Assistant</b><br><i>Northeastern University, Boston, MA</i> <ul style="list-style-type: none"><li>Conducted research in the fields of HCI and NLP co-advised by Timothy Bickmore and Byron Wallace</li><li>In-progress work on HCI research to promote healthy behaviors for historically Black church members using an mHealth application with a conversational virtual agent.</li><li>Worked on research using Bible storytelling to increase motivation towards healthy behavior changes for religious users.</li><li>In-progress work on NLP summarization research in the domain of biomedical texts.</li></ul> | <b>2020-Present</b> |
| <b>REU Undergraduate Researcher</b><br><i>University of Houston - Computational Biomedicine Lab, Houston, TX</i> <ul style="list-style-type: none"><li>Completed an NSF-funded 10 week research program at the University of Houston under the supervision of Professor Ioannis A. Kakadiaris.</li><li>Co-authored a literature review on anti-spoofing techniques for face recognition in computer vision systems.</li><li>Compared how spoofing affects the accuracy of different face recognition systems.</li></ul>   | <b>2016</b>         |

## PROFESSIONAL EXPERIENCE

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|--|------------------|
| <b>Software Engineer/Engineering Manager</b><br><i>Wayfair, Boston, MA</i> | <b>2017-2020</b> |
|--|------------------|

- Contributed to building new features for the supplier-facing web tool for adding new products to the catalog in bulk.
- Led 2 large, multi-phase refactoring projects -- a conversion of the frontend from Tungsten to React and Redux and the rewriting of my team's Excel sheet import service.
- As the most senior engineer on the team, I have guided and mentored my team through the addition of 10+ new hires.
- Led larger team effort to incorporate pair programming as part of development work and led a program to train more code reviewers on the team.
- Gave department and team-wide talks on creating reusable Redux components and Jest testing.
- Leading and managing a team of 3 engineers.

## TEACHING EXPERIENCE

### Teaching Assistant for MVC Class

2019-2020

*Wayfair, Boston, MA*

- Assisted students during the hands-on activities during Wayfair's onboarding MVC framework class, once every 3 months.
- Answered questions online and in-person about MVC framework at Wayfair.

### Quality Assurance to Quality Engineer Program Instructor

2019

*Wayfair, Boston, MA*

- Led 4 department-wide sessions on SQL and Introduction to Programming in PHP.

### Wayfair Labs Mentor

2019

*Wayfair, Boston, MA*

- Co-mentored 30 entry-level engineers on their first month's full stack project.
- Provided constant technical feedback through code reviews and conversations during weekly drop-in hours.

### Peer Tutor and Grader

2014-2016

*Pforzheimer Learning and Teaching Center -- Wellesley College, Wellesley, MA*

- Spring 2016 | CS 231 Algorithms | Held weekly group tutoring sessions and graded homework. Contributed to weekly calibration meetings and teaching pedagogy discussions with the professor and fellow tutors/graders.
- Fall 2016 | CS 320 Tangible User Interface | Held weekly drop-in hours.
- Fall 2016 | CS 235 Languages & Automata | Held 1-1 tutoring and review sessions for CS235.
- Fall 2014 & Spring 2015 | JPN 101 & 102 Beginning Japanese | Held weekly drop-in sessions to help students with their oral exercises and written homework.

## PUBLICATIONS

**Hye Sun Yun**, Shuo Zhou, Everlyne Kimani, Stefan Olafsson, Teresa K. O'Leary, Dhaval Parmar, Jessica Hoffman, Stephen Intille, Michael Paasche-Orlow, and Timothy Bickmore. 2022. **Techno-spiritual Engagement: Mechanisms for Improving Uptake of mHealth Apps Designed for Church Members**. In Joint Proceedings of the [ACM IUI 2022 Workshops](#). Helsinki, Finland, 9 pages.

## PRESENTATIONS

**ACM IUI HEALTHI Workshop** 2022

“Techno-spiritual Engagement: Mechanisms for Improving Uptake of mHealth Apps Designed for Church Members”

**PRISM Health Symposium** 2021

“Longitudinal Analysis of the Attitudes and Conversations Surrounding Vaccines by African Americans on Social Media”

## GRANTS AWARDED

**Global Engagement Internship/Grant, Wellesley College** 2015

*Wellesley College's Center for Work and Service grant for global summer internships (\$5,000)*

- Interned at Asian Rural Institute (Japan) for 10 weeks with the grant.

## ACADEMIC MEMBERSHIP

Phi Beta Kappa Society (ΦBK)

## AWARDS

1st Wayfair Supplier DIY Innovation Day Winner - *Dolly Project Cloner* 2019

Wayfair Challenge Day Runner-Up - *Wayfair en Español* 2018

## ACADEMIC SERVICE/VOLUNTEER

**PhD Student Application Review** 2021

*Northeastern University, Boston, MA*

**Women+ in Software Lead** 2019-2020

*Wayfair, Boston, MA*

- Helped organize the formation of the employee resource group and worked on organizing the kickoff event.
- Represented the group when attending company's ERG-related meetings.

## **PROGRAM COMMITTEE**

UserNLP: User-centered Natural Language Processing Workshop

**2022**

## **ACTIVITIES**

**ACL Year-Round Mentorship**

**2022**

*Class of 2022 mentee*