

PhD Student · University of Washington Computer Science & Engineering

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Education _____

University of Washington

Seattle, WA

PHD IN COMPUTER SCIENCE AND ENGINEERING

September 2020 - present

- GPA: 4.0
- Advisor: Professor Dan Grossman

Wellesley College

Wellesley, MA

August 2016 - May 2020

BA IN COMPUTER SCIENCE AND MATHEMATICS (HONORS)• GPA: 3.72, graduated magna cum laude

Professional Experience _____

2020-present	Graduate Research Assistant , CSE, University of Washington
Summer 2020	Summer Calculus I & II Tutor, Math Dept., Wellesley College
2018-2020	Mathematics Tutor, Math Dept., Wellesley College
2018-2020	Undegraduate Research Assistant , CS Dept., Wellesley College
Spring 2018	Algorithms Tutor, CS Dept., Wellesley College

Publications _____

PUBLISHED

Evan Patton, **Audrey Seo**, Franklyn Turbak. 2019. "Enhancing Abstraction in App Inventor with Generic Event Handlers." IEEE Blocks and Beyond Workshop. http://audreyseo.github.io/files/blocks_and_beyond.pdf.

Audrey Seo. 2018. "Abstractionless Programming in App Inventor." ACM SPLASH BLOCKS+ Workshop. http://audreyseo.github.io/files/blocksplus18-paper19.pdf.

In Review

Eunice Jun, **Audrey Seo**, Jeffrey Heer, René Just. 2022. "Tisane: Authoring Statistical Models via Formal Reasoning from Conceptual and Data Relationships." ACM CHI.

Awards, Fellowships, & Grants _____

2020-2021 Edna V. Moffett Fellow, Wellesley College Graduate Fellowships

Presentations _____

WORKSHOP PRESENTATIONS

Audrey Seo. 2019. "Enhancing Generics in App Inventor with Generic Event Handlers." VLHCC: Blocks and Beyond Workshop, Memphis, TN. Conference and Poster Presentation.

Audrey Seo. 2018. "Abstractionless Programming in App Inventor." SPLASH BLOCKS+ Workshop, Boston, MA. Conference and Poster Presentation.

DEPARTMENT & PROGRAM PRESENTATIONS

Audrey Seo. 2019. "Automatic Refactoring of Robotics Code." Carnegie Mellon University, Institute for Software Research: REUSE Poster Session. Pittsburgh, PA. Poster Presentation.

Audrey Seo. 2018. "Abstractionless Programming in App Inventor." Science Center Summer Research Poster Session. Wellesley, MA. Poster Presentation.

Paige Robinson, Keiko Hilmo, Daniela Gomez, Audrey Seo. 2018. Girls' Generation? A Linguistic Analysis of Gender Representation in Modern South Korea. "Social Labeling of Women In South Korea: Culturally Deleting Women's Identities." Wellesley College Ruhlman Conference. Wellesley, MA. Conference Presentation and Panel.

Research Experience _____

University of Washington - CSE

Seattle, WA

Advisor: Prof. Dan Grossman

Sep. 2020 - Present

Project: Transferring proofs of source code to proofs of compiled code in a different target language

University of Washington - CSE

Seattle, WA

MENTOR: EUNICE JUN

Jul. 2021 - Present

• Project: Statistical tools for non-experts in statistics

Wellesley College - CS Dept.

Welleslev, MA

Advisor: Prof. Benjamin Wood

Sep. 2019 - Mar. 2020

· Project: Designing a DSL for pattern matching on students' homework problems in an autograder

Wellesley College - CS Dept.

Wellesley, MA

ADVISOR: PROF. FRANKLYN TURBAK

Jun. 2018-Sep. 2019

• Project: Analyzing millions of MIT App Inventor projects for code smells

Carnegie Mellon University - CS Dept.

Pittsburgh, PA

ADVISOR: DR. RUBEN MARTINS

May - Aug. 2019

• Project: Using program synthesis to automatically refactor robotics code

Outreach & Professional Development _____

SERVICE AND OUTREACH

2021-present UAW 4121, Steward representing academic student workers in CSE

Seattle, WA

2020-present **UW CSE Care Committee**, Volunteer and coordinator

Seattle, WA

• Organize distribution of care packages

• Decrease stigma of mental illness and treatments among CSE community

Seattle, WA

Fall 2020 -

UW CSE Peer Application Review Service (PARS), PARS Leader and Organizer

Summer 2021

• Helped create and organize program where current PhD students would read prospective PhD applicants' statement of purpose (SOP) drafts to help them apply to the UW CSE PhD program, or other programs

- PARS assisted students with their SOP drafts and targeted students from underrepresented minorities in order to give them a better chance of having a strong application
- Brainstormed with other leaders and organizers to create the first iteration of PARS, including scope, managing logistics, creating materials
- Read, revised, and gave feedback on six applications, all but two of which were applicants who were underrepresented minorities

EXTRACURRICULARS

Winter 2021 **UW CSE Book Club for First Years**, Coordinator

Remote

- Read Philip Guo's memoir The PhD Grind with fellow first year students to promote cama-
- Due to the isolation of remotely starting the PhD, first year students were at high risk of feeling alone
- This book club provided a place for first years to get to know each other and commiserate about shared experiences in a healthy way

PROFESSIONAL MEMBERSHIPS

Society of Women Engineers

Invited to Sigma Xi as a college senior