

Irene Yoon

Curriculum Vitae

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Legal name: Euisun Yoon. *Citizenship:* South Korea. *Birth date:* Oct 20, 1997.

Education

2019– **Ph.D. Computer and Information Science**

University of Pennsylvania

Advisor: Steve Zdancewic

2019 **B.S. Computer Science**

Cornell University

Experience

Jan-Apr 2023 **Research Intern, Jane Street**, London, UK.

Jul-Oct 2021 **Research Intern, MPI-SWS**, Remote.

Advisor: Derek Dreyer

May-Aug 2017 **Explorer Intern, Microsoft**, San Francisco, CA.

Publications

Conferences

2022 **Formal Reasoning About Layered Monadic Interpreters.**

Irene Yoon, Yannick Zakowski, Steve Zdancewic.

In 2022 ACM SIGPLAN International Conference on Functional Programming, ICFP 2022.

2021 **Modular, Compositional, and Executable Formal Semantics for LLVM IR.**

Yannick Zakowski, Calvin Beck, Irene Yoon, Vadim Zaliva, Ilia Zaichuk, Steve Zdancewic.

In 2021 ACM SIGPLAN International Conference on Functional Programming, ICFP 2021.

2020 **Geometry Types for Graphics Programming**

Dietrich Geisler, Irene Yoon, Aditi Kabra, Horace He, Yinnon Sanders, Adrian Sampson.

In 2020 ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOPSLA 2020.

2018 **Design Mining for Minecraft Architecture**

Euisun (Irene) Yoon, Erik Andersen, Bharath Hariharan, Ross Knepper.

In 2018 AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment, AIIDE 2018.

Invited Talks

Dec 2022 Formal Reasoning About Layered Monadic Interpreters. Boston University POPV Seminar.

Sep 2022 Formal Reasoning About Layered Monadic Interpreters. Cornell PLDG.

Dec 2020 Modular, Compositional, and Executable Semantics for LLVM IR. UCSC LSD Seminar.

Honors

2020 3rd Place, Graduate Category. POPL Student Research Competition.

“Through the Interaction Forest: Modeling Concurrency in Coq with Interaction Trees.”

2019 Honorable Mention, CRA Outstanding Undergraduate Researcher Award.

2017-2018 Cornell ELI Undergraduate Research Award, 2017; 2018.

Teaching

Fall 2020 **Teaching assistant**, CIS 500 Software Foundations (University of Pennsylvania).
Spring 2019 **Teaching assistant**, CS 2043 UNIX Tools & Scripting (Cornell University).
Fall 2018 **Teaching assistant**, CS 4110 Programming Languages & Logics (Cornell University).
Spring 2018 **Head consultant**, CS 3110 Functional Programming (Cornell University).

Service

Academic Service

- **Reviewer**, TOPLAS 2022.
- **Artifact Evaluation Committee**, PLDI 2021, PLDI 2022.
- **Student Volunteer**, POPL 2020, PLDI 2020.

Departmental Service

- **Seminar Organizer**, Penn PLCLub, 2020-2022.
- **President**, Cornell Association of Computer Science Undergraduates, 2018.
- **Instructor**, Women in Computing at Cornell (WICC) LearnCS High School Program, Spring 2016.