

# Minsung Cho

[minsung@ccs.neu.edu](mailto:minsung@ccs.neu.edu) | [cho.minsung.pl](http://cho.minsung.pl)

## EDUCATION

---

**Northeastern University**, Ph.D. Computer Science 2022–Present  
Advisor: Steven Holtzen

**Carnegie Mellon University**, B.S. Mathematics and Philosophy (Logic track) 2018–2022  
Thesis: *Cops and Robbers in Lean*  
Advisor: Jeremy Avigad

## EXPERIENCE

---

**R&D Intern**, Metadata Team, RelationalAI May 2024 —  
- Developing tools to safely and clearly expose query optimizer heuristics to users

**PhD Student Researcher**, Northeastern University Sep 2022 —  
- Working in expressive knowledge compilation

**NSF REU Researcher**, University of Tennessee at Chattanooga Jun — Jul 2021

**Researcher in Combinatorics**, Carnegie Mellon University Jun — Aug 2020

## PUBLICATIONS

---

Lincroft, Gwenyth, Minsung Cho, Mahsa Bazzaz, Katherine Hough, and Jonathan Bell (2024). “Thirty-Three Years of Mathematicians and Software Engineers: A Case Study of Domain Expertise and Participation in Proof Assistant Ecosystems”. In: *Proceedings of the 21st International Conference on Mining Software Repositories*. ACM.

Cho, Minsung, Seth Hoisington, Roger Nichols, and Brian Udall (2021). “The Krein-von Neumann extension of a regular even order quasi-differential operator”. In: *Opuscula Mathematica* 41.6, pp. 805–841.

## INVITED TALKS

---

**Scaling Decision-Theoretic Probabilistic Programming Through Factorization** DRAGSTERS  
@ PLDI 2023  
PLDI Student Research Competition 2023 First Place.

## AWARDS

---

PLMW@PLDI 2023 scholarship recipient.

OPLSS 2022 scholarship recipient.

University and College honors from Carnegie Mellon.

## SKILLS

---

Fluent in Korean and English.

Experience in functional programming (Lean, Haskell, OCaml, Standard ML), Python, Rust, LaTeX.

Comfortable with Unix, Git.

Six semesters of teaching experience:

- Spring 2024: CS4400/5400 Programming Languages
- Spring 2022: 21-268 Multidimensional Calculus
- Fall 2022: 80-310/610 Formal Logic
- Spring 2022: 21-268 Multidimensional Calculus
- Fall 2021: 21-127 Concepts in Mathematics
- Spring 2020: 21-259 Calculus III