

Employment

- May 2025 -** *Software Engineer*, RelationalAI, Remote
Backend team. Compiler design for the query language Rel.
- Sep 2022 -** *Graduate Research Assistant*, Northeastern University, Boston, USA
Apr 2025 Research in programming languages resulting in two publications [1, 2].
- May 2024 -** *R&D Intern*, RelationalAI, Remote
Dec 2024 Backend team. Fine-grained optimizations for the query language Rel.
- Jun 2021 -** *REU Researcher*, University of Tennessee, Chattanooga, USA
Jul 2021 Research in pure mathematics resulting in a publication [3].

Education

- 2025** **MS Computer Science**, Northeastern University, Boston, USA
- 2022** **BS Mathematics and Philosophy**, Carnegie Mellon University, Pittsburgh, USA

Publications

- [1] Minsung Cho, John Gouwar, and Steven Holtzen. “Scaling Optimization over Uncertainty via Compilation”. In: *Proc. ACM Program. Lang.* 9.OOPSLA1 (2025). DOI: 10.1145/3720500.
- [2] Gwenyth Lincroft et al. “Thirty-Three Years of Mathematicians and Software Engineers: A Case Study of Domain Expertise and Participation in Proof Assistant Ecosystems”. In: *21st IEEE/ACM International Conference on Mining Software Repositories, MSR 2024*. ACM, 2024, pp. 1–13. DOI: 10.1145/3643991.3644908.
- [3] Minsung Cho et al. “The Krein-von Neumann extension of a regular even order quasi-differential operator”. In: *Opuscula Mathematica* 41.6 (2021), pp. 805–841. DOI: 10.7494/OpMath.2021.41.6.805.

Awards

- PLDI 2023 Student Research Competition First Place.
- PLMW@PLDI 2023 Scholarship Recipient.
- OPLSS 2022 Travel Grant Recipient.
- University and college honors from Carnegie Mellon.

Skills

- Proficient in Python, Julia, Rust, JS/TS, functional programming (Haskell, OCaml), Datalog.
- Comfortable with Unix, Git, Jira, Docker, LaTeX.