Minsung Cho

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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, LaTeX.