

HAN XU

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EDUCATION

Peking University, Beijing, China Sep. 2018 – Jun. 2022

- *B.S.* in Computer Science (Turing Class), GPA 3.804/4
- *Advisor*: Zhenjiang Hu

Princeton University, New Jersey, United States Sep. 2023 – Present

- *Ph.D.* in Computer Science
- *Advisor*: David Walker

EXPERIENCE

Research Assistant Jun. 2021 – Jul. 2023

The University of Hong Kong Advisor: Bruno C. d. S. Oliveira

PUBLICATIONS

- **Han Xu**, Di Wang. Dependently-Typed AARA: A Non-Affine Approach for Resource Analysis of Higher-Order Programs. *In 35th European Symposium on Programming (ESOP 2026)*. April 2026.
- **Han Xu**, Zachary Kincaid, Ratul Mahajan, David Walker. Network Change Validation with Relational NetKAT. *In 53rd Symposium on Principles of Programming Languages (POPL 2026)*. January 2026.
- **Han Xu**, Xuejing Huang, Bruno C. d. S. Oliveira. Liberating Merges via Apartness and Guarded Subtyping. *In 40th ACM SIGPLAN International Conference on Systems, Programming, Languages and Applications (OOPSLA 2025)*. October 2025.
- Andong Fan, **Han Xu**, Ningning Xie. Practical Type Inference with Levels. *In 46th ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2025)*. June 2025.
- **Han Xu**, Xuejing Huang, Bruno C. d. S. Oliveira. Making a Type Difference: Subtraction on Intersection Types as Generalized Record Operations. *In 50th Symposium on Principles of Programming Languages (POPL 2023)*. January 2023.
- Andong Fan*, Xuejing Huang*, **Han Xu**, Yaozhu Sun, Bruno C. d. S. Oliveira. Direct Foundations for Compositional Programming. *In 36th European Conference on Object-Oriented Programming (ECOOP 2022)*. June 2022.
- **Han Xu**, Zhenjiang Hu. Analytical Differential Calculus with Integration. *International Colloquium on Automata, Languages and Programming 2021 (ICALP 2021)*. July 2021.

AWARD

Bloomberg Infrastructure & Security Fellowship Sep. 2025 – Aug. 2026

SERVICES

- **Journal Reviewer**: JFP'23, JFP'24

SKILLS

- **Programming Languages**: OCaml, Coq, C++, Lisp, Haskell, \LaTeX .
- **Languages**: Mandarin (Native), English (Fluent), Japanese (Fluent, N1).