

# HAN XU

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## EDUCATION

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- 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

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- Research Assistant** Jun. 2021 – Jul. 2023
- The University of Hong Kong* Advisor: Bruno C. d. S. Oliveira

## PUBLICATIONS

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- **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

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

## SERVICES

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

## SKILLS

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- **Programming Languages:** OCaml, Coq, C++, Lisp, Haskell, L<sup>A</sup>T<sub>E</sub>X.
- **Languages:** Mandarin (Native), English (Fluent), Japanese (Fluent, N1).