

# Pinhan Zhao

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## Research Interests

Programming Languages, Formal Methods, Automated Reasoning, Databases

## Education

2028  
(Expected) **University of Michigan, Ann Arbor, MI**  
Ph.D. in Computer Science and Engineering  
Advisor: Xinyu Wang

May 2023 **New York University, New York, NY**  
B.S. in Computer Science

## Publications

\* Equal contribution.

2024 VeriEQL: Bounded Equivalence Verification for Complex SQL Queries with Integrity Constraints  
Yang He\*, **Pinhan Zhao**\*, Xinyu Wang, Yuepeng Wang  
*Proceedings of the ACM on Programming Languages (OOPSLA)*, 2024

2022 Fixing TCP Slow Start for Slow Fat Links  
Maryam Ataei Kachooei, **Pinhan Zhao**, Feng Li, Jae Won Chung, Mark Claypool  
*Proceedings of the 0x16 NetDev Conference*

2022 Competing TCP Congestion Control Algorithms over a Satellite Network  
**Pinhan Zhao**, Benjamin Peters, Jae Won Chung, Mark Claypool  
*Proceedings of the IEEE Consumer Communications and Networking Conference (CCNC)*, 2022

2021 TCP HyStart Performance over a Satellite Network  
Benjamin Peters, **Pinhan Zhao**, Jae Won Chung, Mark Claypool  
*Proceedings of the 0x15 NetDev Conference*

## Honors & Awards

2023 University Honors Scholar, New York University  
2022-2023 NSF Science Outreach and Research Teaching Fellowship

## Service

Artifact Evaluation Committee, PLDI 2024

## Teaching

Fall 2021 Teaching Assistant, GAMES-UT 180 Introduction to Programming for Games, New York University

## Skills

Programming Languages: Proficient in Python, SQL, JavaScript. Familiar with Haskell, Prolog, Go, C, C++, Java, TypeScript, Racket, C#, Forth, Elixir, OCaml, Rust, PHP, BASIC.

Databases: MySQL, PostgreSQL, MongoDB.

Tools: Z3, Unity.