Ziteng Wang

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EDUCATION

Ph.D.	Computer Science, University of Texas at Austin, 2021– Advisor: Işıl Dillig (isil@cs.utexas.edu)
M.S.	Computer Science, University of Texas at Austin, Expected 2025/06
B.S.	Computer Science, University of California San Diego, 2017–2021 Advisor: Nadia Polikarpova (npolikarpova@eng.ucsd.edu) GPA: 3.89/4.00
B.S.	Mathematics, University of California San Diego, 2017–2021 GPA: 3.50/4.00

RESEARCH EXPERIENCE

2021– Graduate Research Assistant, under the supervision of Dr. Işıl Dillig — UToPiA, UT Austin

- 2024: data science program incrementalization using program synthesis
- 2023: automated synthesis of online algorithms from offline implementations
- 2022: co-authored paper on automatic software deobfuscation using program synthesis

2019–21 Research Assistant and Intern, under the supervision of Dr. Nadia Polikarpova — UCSD CSE

- Designed a *candidate filtering* system to improve synthesizer output from Hoogle+
- Created an human-readable example generator that helps demonstrate function behavior

WORK EXPERIENCE

2022 Summer Intern — RelationalAI

- Developed a prototype visualization tool for the Rel programming language

2022 Teaching Assistant for *Automated Logical Reasoning* — UT Austin

- Designed and graded programming assignments and held office hours

2021 Tutor for CSE 130: *Programming Languages, Principles and Paradigms* — UCSD CSE

- Graded final exam submissions and answered questions during office hours

2020–21 Teaching Assistant for (1) Probability & Statistics and (2) Calculus — UCSD Math

- Led sections to review course materials and foster problem-solving skills among students
- 87.5% students recommended

2018 (Part-time) Full-stack Developer — UCSD Psychology

- Collaborated with a team to develop a web application for conducting psychology experiments

AWARDS AND HONORS

2020   Third Place, POPL 2020 Student Research Competition

2020   PLMW@POPL 2020 Travel Award

SERVICE

2025   Artifact Evaluation Committee, OOPSLA 2025

SKILLS AND LANGUAGES

Programming   Python; Haskell; C#; JavaScript; Java; Bash Script; Rust

Tools and Stack   Pandas; NumPy; React/Redux, CSS, HTML; Git

Spoken Languages   Proficient: English   Native: Mandarin

PUBLICATIONS

2024   Control-Flow Deobfuscation using Trace-Informed Compositional Program Synthesis.
        Benjamin Mariano*, **Ziteng Wang***, Shankara Pailoor, Christian Collberg, and Isil Dillig.
        OOPSLA 2024 (Proceedings of the ACM on Programming Languages)

2024   Relational Synthesis of Recursive Programs via Constrained Tree Automata.
        Anders Miltner, **Ziteng Wang**, Swarat Chaudhuri, Isil Dillig
        CAV 2024 (International Conference on Computer Aided Verification)

2024   From Batch to Stream: Automatic Generation of Online Algorithms.
        Ziteng Wang, Shankara Pailoor, Aaryan Prakash, Yuepeng Wang, Isil Dillig
        PLDI 2024 (Proceedings of the ACM on Programming Languages)

2020   Digging for Fold: Synthesis-Aided API Discovery for Haskell.
        Michael James, Zheng Guo, **Ziteng Wang**, Shivani Doshi, Hila Peleg, Ranjit Jhala, Nadia Polikarpova
        OOPSLA 2020 (Proceedings of the ACM on Programming Languages)

2019   Program Synthesis by Type-Guided Abstraction Refinement.
        Zheng Guo, Michael James, David Justo, Jiaxiao Zhou, **Ziteng Wang**, Ranjit Jhala, Nadia Polikarpova
        POPL 2019 (Proceedings of the ACM on Programming Languages)

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