

Amirmohammad Nazari

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RESEARCH INTERESTS

- Automated Reasoning
- Formal Methods
- Formal Verification
- Programming Languages
- Program Synthesis
- Program Analysis

EDUCATION

- **University of Southern California**, Los Angeles, California, USA
Ph.D., Computer Science
May 2021 - Ongoing
Thesis : To be announced
Advisor : Mukund Raghothaman
- **University of Southern California**, Los Angeles, California, USA
M.Sc., Computer Science
May 2021 - December 2024
- **Amirkabir University of Technology**(Tehran Polytechnic), Tehran, Iran
B.Sc., Computer Engineering
September 2016 - September 2020

PUBLICATIONS

- Amirmohammad Nazari, Yifei Huang, Roopsha Samanta, Arjun Radhakrishna, and Mukund Raghothaman. Explainable Program Synthesis by Localizing Subspecifications. In ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications. OOPSLA. 2023.
- Amirmohammad Nazari, Matin Amini, and Mukund Raghothaman. How Does My Circuit Work? Local Explanations for the Behavior of Sequential Circuits. In IEEE/ACM Conference on Formal Methods in Computer-Aided Design. FMCAD. 2025.
- Amirmohammad Nazari, Sadra Sabouri, Wang Bill Zhu, Robin Jia, Souti Chattopadhyay, and Mukund Raghothaman. Synthesizing Program Analyzers to Help Programmers Answer Questions About Code. In Submission. 2025.
- Amirmohammad Nazari, Souti Chattopadhyay, Swabha Swayamdipta, and Mukund Raghothaman. Generating Function Names to Improve Comprehension of Synthesized Programs. In IEEE Symposium on Visual Languages and Human-Centric Computing. VL/HCC. 2024.
- Amirmohammad Nazari, Souti Chattopadhyay, Swabha Swayamdipta, and Mukund Raghothaman. NomNom: Explanatory Function Names for Program Synthesizers. In IEEE/ACM International Conference on Software Engineering Companion. ICSE-Companion. 2024.
- Amirmohammad Nazari, Yongzheng Zhang, Mukund Raghothaman, Haoxian Chen. Localized Explanations for Automatically Synthesized Network Configurations. In ACM Workshop on Hot Topics in Networks. HotNets. 2024.

TEACHING EXPERIENCES

- **Teaching Assistant, Programming Languages, Fall 2023**
Department of Computer Science, University of Southern California
Under supervision of Prof. Mukund Raghothaman
- **Teaching Assistant, Analysis of Algorithms, Spring 2024**
Department of Computer Science, University of Southern California
Under supervision of Prof. Shahriar Shamsian

SERVICES

- PLDI 2024,Artifact Evaluation Committee.
- SAS 2025,Artifact Evaluation Committee.
- VMCAI 2023,Artifact Evaluation Committee.
- FORMATS 2023,Artifact Evaluation Committee.

REFERENCES

- **Mukund Raghothaman, Assistant Professor**
Computer Science Department, University of Southern California
Email: raghotha@usc.edu
- **Arjun Radhakrishna, Researcher**
PROSE team, Microsoft
Email: arradha@microsoft.com
- **Souti Chattopadhyay, Assistant Professor**
Computer Science Department, University of Southern California
Email: schattop@usc.edu