



Mohammad Rezaalipour

Contact Information

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Education

Sept. 2019 **PhD degree, Informatics**, *Università della Svizzera italiana*, Switzerland
 Jun. 2024
 Sept. 2014 **Master's degree, Software Engineering**, *Shahid Beheshti University*, Iran
 Jan. 2017
 Sept. 2004 **Bachelor's degree, Robotics Engineering**, *Shahrood University of Technology*, Iran
 July 2009

Work Experience

Sept. 2019 **Research Assistant**, *Università della Svizzera italiana*, Switzerland
 Jun. 2024 Researched debugging techniques for data science programs.
 Jan. 2017 **Research Assistant**, *Software Testing and Approval Lab. (TickSoft)*, Iran
 Feb. 2019 Conducted research in the field of software testing.
 July 2015 **Supervisor Representative**, *Iranian National Tax Administration (INTA)*, Iran
 Nov. 2015 Served as a supervisory representative in knowledge transfer and software testing meetings related to the Integrated Taxation System (ITS), a software designed for tax information management.
 Apr. 2012 **Instructor**, *Iran Technical & Vocational Training Organization*, Iran
 Sept. 2013 Taught C# programming and computer networking.
 Sept. 2010 **Conscription Instructor**, *Iran Technical & Vocational Training Organization*, Iran
 Sept. 2011 Taught C#, MATLAB, Microsoft Windows, and Microsoft Office applications.

Selected Publications

To see all my publications, visit my Google Scholar profile: <https://t.ly/FmoZ2>

- **EMSE:** Mohammad Rezaalipour, Carlo A. Furia. (2024). "An Empirical Study of Fault Localization in Python Programs." <https://doi.org/10.1007/s10664-024-10475-3>.
- **ICSME:** Mohammad Rezaalipour, Carlo A. Furia. "aNNoTest: An Annotation-based Test Generation Tool for Neural Network Programs." <https://doi.org/10.1109/ICSME58846.2023.00075>.
- **JSS:** Mohammad Rezaalipour, Carlo A. Furia. "An annotation-based approach for finding bugs in neural network programs." <https://doi.org/10.1016/j.jss.2023.111669>.
- **IEEE Transactions on Computers:** Morteza Rezaalipour, Mohammad Rezaalipour, Masoud Dehyadegari, Mahdi Nazm Bojnordi. "AxMAP: Making Approximate Adders Aware of Input Patterns." <https://doi.org/10.1109/TC.2020.2968905>.
- **FSEN:** Babak Bagheri, Mohammad Rezaalipour, Mojtaba Vahidi-Asl. "An Approach to Generate Effective Fault Localization Methods for Programs." https://doi.org/10.1007/978-3-030-31517-7_17.

Invited Talks

- “An annotation-based approach for finding bugs in neural network programs.” **ICSME 2023**, Bogota, Colombia.
- “aNNoTest: An Annotation-based Test Generation Tool for Neural Network Programs.” **ICSME 2023**, Bogota, Colombia.
- “An Approach to Generate Effective Fault Localization Methods for Programs.” **FSEN 2019**, Tehran, Iran.
- “Arselda: An Improvement on Adaptive Random Testing by Adaptive Region Selection.” **ICCKE 2018**, Mashhad, Iran.

Teaching Experience

Sept. 2019 **Teaching Assistant**, *Università della Svizzera italiana*, Switzerland

- Jan. 2024
- **Programming Fundamentals 1**, Fall 2023/2024
 - **Programming Fundamentals 1**, Fall 2022/2023
 - **Software Atelier 4: Software Engineering Project**, Spring 2021/2022
 - **Programming Fundamentals 1**, Fall 2021/2022
 - **Software Atelier 4: Software Engineering Project**, Spring 2020/2021
 - **Programming Fundamentals 1**, Fall 2020/2021
 - **Compiler Construction**, Spring 2019/2020
 - **Programming Fundamentals 1**, Fall 2019/2020

Responsibilities: grading assignments, evaluating course projects, and actively participating in lab sessions to support students with their assignments and course projects.

Research Projects

- **FauxPy**: an automated fault localization tool for Python programs.
GitHub Repository: <https://github.com/atom-sw/fauxpy>
- **FauxPy Experiments**: the replication package of our paper titled “An Empirical Study of Fault Localization in Python Programs” by Mohammad Rezaalipour and Carlo A. Furia.
GitHub Repository: <https://github.com/atom-sw/fauxpy-experiments>
- **aNNoTest**: an automated test generation tool for finding bugs in neural network programs.
GitHub Repository: <https://github.com/atom-sw/annotest>
- **aNNoTest Subjects**: an annotated collection of replicable bugs within deep neural network projects, intended for experimentation in automated test-case generation.
GitHub Repository: <https://github.com/atom-sw/annotest-subjects>

Academic Service

- Artifact evaluation committee at FASE 2022, SEFM 2023, and PLDI 2024.
- Web Chair at iFM 2022, and iFM 2023.

Awards

- Ranked 81st among 34,439 participants in the Iranian University Entrance Exam (Konkour) for admission to a master’s program in Software Engineering.