Beatriz Souza

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Apr 2023-now PhD in Computer Science University of Stuttgart, Germany Advisor: Michael Pradel OCT 2021-FEB 2023 Master's in Computer Science Federal University of Pernambuco, Brazil Advisor: Marcelo d'Amorim May 2017-June 2021 Bachelor's in Computer Science Federal University of Campina Grande, Brazil Advisor: Rohit Gheyi High School with a Technical Degree in Informatics May 2013-Sept 2016 Federal Institute of Education, Science and Technology of Paraíba, Brazil Advisor: Gustavo Soares Vieira EXPERIENCE July 2022-Dec 2022 Research intern at SOLA, Stuttgart, Germany I worked on *LExecutor*, a learning-guided approach for executing arbitrary Python code snippets. May 2020-Feb 2021 Software Developer at LAB ANALYTICS, Campina Grande, Brazil I worked on Tá de Pé? and Monitor Cidadão, which are web applications aiming to identify risks in Brazilian government contracts. Nov 2019-Oct 2020 Research assistant at UFCG, Campina Grande, Brazil I Worked on a sound and lightweight technique, based on theorem proving using Z3, to identify equivalent, duplicate, and subsumed mutations. Aug 2018-July 2019 Research assistant at SPLAB, Campina Grande, Brazil I investigated the effectiveness of state-of-the-art tools that automatically generate test cases, such as Randoop and EvoSuite. July 2016-Sept 2016 Web Developer Intern at Papagaio, João Pessoa, Brazil I participated in the development of an e-commerce platform for drug stores. Aug 2015-July 2016 Research assistant at IFPB, Cajazeiras, Brazil I worked on Segundo Mendel, a mobile application to help high school students to learn genetic concepts, such as Mendel's Laws. **PUBLICATIONS** FSE'23 LExecutor: Learning-Guided Execution. Beatriz Souza and Michael Pradel. Symposium on the Foundations of Software Engineering IST'21 Identifying Method-Level Mutation Subsumption Relations using Z3. Rohit Gheyi, Márcio Ribeiro, Beatriz Souza, Marcio Guimarães, Leo Fernandes, Marcelo d'Amorim, Vander Alves, Leopoldo Teixeira, Baldoino Fonseca. Elsevier Information and Software Technology SBES'20 A Large Scale Study On the Effectiveness of Manual and Automatic Unit Test Generation. Beatriz Souza and Patrícia Machado. Brazilian Symposium on Software Engineering

SBES'20 A Lightweight Technique to Identify Equivalent Mutants. Beatriz Souza and Rohit Gheyi. Brazilian Symposium on Software Engineering ASE'20 Identifying Mutation Subsumption Relations. Beatriz Souza. International Conference on Automated Software Engineering SPLASH'19 Is Mutation Score a Fair Metric?.

Beatriz Souza. International Conference on Systems, Programming, Languages, and Applications:

Software for Humanity

- ACM SIGSOFT Distinguished Paper Award at The Symposium on the Foundations of Software Engineering (FSE'23) for the work LExecutor: Learning-Guided Execution.
- Best paper at The Brazilian Symposium on Software Engineering (SBES'20) for the work A Large Scale Study On the Effectiveness of Manual and Automatic Unit Test Generation.
- First Place at The Undergraduate Research on Software Engineering Competition (SBES'20) for the work A Lightweight Technique to Identify Equivalent Mutants.
- Third Place at The ACM Student Research Competition (ASE'20) for the work *Identifying Mutation Subsumption Relations*.
- Third Place at The ACM Student Research Competition (SPLASH'19) for the work *Is Mutation Score a Fair Metric?*.

TEACHING EXPERIENCE

APR 2023-SEPT 2023	Teaching assistant at SOLA, Stuttgart, Germany Programming Paradigms - I created and graded exercise lists and addressed questions for a class of 80+ students.
Mar 2018-Aug 2018	Teaching assistant at UFCG, Campina Grande, Brazil Mathematical Foundations for Computer Science - I helped professor by grading exercise lists and addressing questions for a class of 46 students.
July 2015-Dec 2015	Teaching assistant at IFPB, Cajazeiras, Brazil Competitive Programming - I collaborated in a course to prepare high school and undergraduate students for programming contests using C as program- ming language.

Volunteer Service

• Student volunteer of the ASE 2020 conference.