

JOSÉ CAMPOS

PERSONAL INFORMATION

Born in Portugal, 29 January 1986

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WORK EXPERIENCE

- Sept 2015–Jan 2016* Teaching Assistant
The University of Sheffield
Supporting master students on advanced software testing activities.
Reference: Prof. Gordon FRASER · gordon.fraser@sheffield.ac.uk
- Sept 2014–Jan 2015* Teaching Assistant
The University of Sheffield
Supporting master students on building complex software such as for use in aerospace applications.
Reference: Prof. Kirill BOGDANOV · k.bogdanov@sheffield.ac.uk
- Jun 2012–Nov 2013* Research Assistant
University of Porto Faculty of Engineering
Investigate the use of various generic invariants in the value and time domain, their effect on Spectrum-based Fault Localization (SFL)'s diagnostic precision, their relation with existing test oracles, and their runtime overhead, in particular, the density required or strategic placement (trading off overhead vs precision).
Reference: Prof. Rui ABREU · rui@computer.org
- Jul–Sept 2011* Summer Trainee
Critical Software
Certification of critical aerospace software.
Reference: Eng. Ricardo BARBOSA · rbarbosa@criticalsoftware.com
- Jul–Sept 2010* Summer Trainee
Caixa Mágica Software
Developed an internal project for Caixa Mágica operating system, with the main goal to improve the driver of the wireless card Realtek 8192 of Magalhães 2 computer.
Reference: Prof. Paulo TREZENTOS · paulo.trezentos@caixamagica.pt
- Feb–Jul 2010* Teaching Assistant
University of Porto Faculty of Engineering
Helping and guiding the students at Computer Laboratory of Master in Informatics and Computing Engineering.
Reference: Prof. Rui ABREU · rui@computer.org

EDUCATION

- Dec 2013–...* The University of Sheffield, United Kingdom
PhD Student in Computer Science
Test Generation and Fault Localisation for Evolving Software.
Supervisors: Prof. Gordon FRASER · gordon.fraser@sheffield.ac.uk and Prof. Rui ABREU · rui@computer.org
- Set 2006–Fev 2012* University of Porto, Portugal
Masters in Informatics and Computing Engineering
GPA20: 14 · School: Faculty of Engineering
Thesis: Regression Testing with GZOLTAR: Techniques for Test Suite Minimization, Selection, and Prioritization
Supervisor: Prof. Rui ABREU · rui@computer.org

PUBLICATIONS

- [1] Andrea Arcuri, José Campos, and Gordon Fraser.
Unit Test Generation During Software Development: EvoSuite Plugins for Maven, IntelliJ and Jenkins.
In *Proceedings of the 2016 IEEE Ninth International Conference on Software Testing, Verification and Validation, ICST '16*, Washington, DC, USA, 2016. IEEE Computer Society.
- [2] Ermira Daka, José Campos, Gordon Fraser, Jonathan Dorn, and Westley Weimer.
Modeling Readability to Improve Unit Tests
ACM SIGSOFT Distinguished Paper Award.
In *Proceedings of the 2015 10th Joint Meeting on Foundations of Software Engineering, ESEC/FSE 2015*, pages 107–118, New York, NY, USA, 2015. ACM.
- [3] José Miguel Rojas, José Campos, Mattia Vivanti, Gordon Fraser, and Andrea Arcuri.
Combining Multiple Coverage Criteria in Search-Based Unit Test Generation
Best Paper with industry-relevant SBSE results.
In Márcio Barros and Yvan Labiche, editors, *Search-Based Software Engineering (SSBSE)*, volume 9275 of *Lecture Notes in Computer Science*, pages 93–108. Springer International Publishing, 2015.
- [4] José Campos, Gordon Fraser, Andrea Arcuri, and Rui Abreu.
Continuous Test Generation on Guava.
In Márcio Barros and Yvan Labiche, editors, *Search-Based Software Engineering*, volume 9275 of *Lecture Notes in Computer Science*, pages 228–234. Springer International Publishing, 2015.
- [5] Ermira Daka, José Campos, Jonathan Dorn, Gordon Fraser, and Westley Weimer.
Generating Readable Unit Tests for Guava.
In Márcio Barros and Yvan Labiche, editors, *Search-Based Software Engineering*, volume 9275 of *Lecture Notes in Computer Science*, pages 235–241. Springer International Publishing, 2015.
- [6] José Campos, Andrea Arcuri, Gordon Fraser, and Rui Abreu.
Continuous Test Generation: Enhancing Continuous Integration with Automated Test Generation.
In *Proceedings of the 29th ACM/IEEE International Conference on Automated Software Engineering, ASE '14*, pages 55–66, New York, NY, USA, 2014. ACM.
- [7] José Campos, Rui Abreu, Fraser Gordon, and Marcelo d’Amorim.
Entropy-based Test Generation for Improved Fault Localization.
In *Proceedings of the 28th IEEE/ACM International Conference on Automated Software Engineering, ASE 2013*, pages 257–267, New York, NY, USA, 2013. ACM.
- [8] Carlos Gouveia, José Campos, and Rui Abreu.
Using HTML5 Visualizations in Software Fault Localization.
In *Proceedings of the 1st IEEE Working Conference on Software Visualization (co-located with International Conference on Software Maintenance, ICSM)*, VISSOFT 2013, pages 1–10, Washington, DC, USA, 2013. IEEE Computer Society.
- [9] Pedro Machado, José Campos, and Rui Abreu.
MZoltar: Automatic Debugging of Android Applications.
In *Proceedings of the 1st International Workshop on Software Development Lifecycle for Mobile (co-located with European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, ESEC/FSE)*, DeMobile 2013, pages 9–16, New York, NY, USA, 2013. ACM.
- [10] José Campos and Rui Abreu.
Leveraging a Constraint Solver for Minimizing Test Suites.
In *Proceedings of the The Symposium on Engineering Test Harness (co-located with QSIC)*, TSE-TH 2013, pages 253–259, Washington, DC, USA, 2013. IEEE.
- [11] José Campos and Rui Abreu.
Encoding Test Requirements as Constraints for Test Suite Minimization.
In *Proceedings of the 10th International Conference on Information Technology: New Generations, ITNG 2013*, pages 317–322, Washington, DC, USA, 2013. IEEE Computer Society.
- [12] José Campos, André Ribeiro, Alexandre Perez, and Rui Abreu.
GZoltar: An Eclipse Plug-in for Testing and Debugging.
In *Proceedings of the 27th IEEE/ACM International Conference on Automated Software Engineering, ASE 2012*, pages 378–381, New York, NY, USA, 2012. ACM.
- [13] André Ribeiro, Rui Rodrigues, Rui Abreu, and José Campos.
Integrating Interactive Visualizations of Automatic Debugging Techniques on an Integrated Development Environment.
IJCICG, 3(2):42–59, 2012.

EVENTS

	<i>Sept 2015</i>	Student Volunteer
Conference	The 10th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE)	
	<i>May 2015</i>	Student Volunteer
Conference	The 37th International Conference on Software Engineering (ICSE)	
	<i>Jun 2014</i>	Organising Committee
Conference	The 10th International Summer School on Training And Research On Testing (TAROT)	
	<i>Nov 2013</i>	Student Volunteer
Conference	The 28th IEEE/ACM International Conference on Automated Software Engineering (ASE)	
	<i>Apr 2013</i>	Session-Chair of Software Testing track
Conference	The 10th International Conference on Information Technology: New Generations (ITNG)	

CO-SUPERVISOR

	<i>Sept 2014–Jul 2015</i>	A Multi-Objective Optimization Approach to Test Suite Reduction
Institution	University of Porto · Faculty of Engineering	
Degree	Masters in Informatics and Computing Engineering	
Student	Jorge Costa	
Supervisor	Prof. Rui ABREU · rui@computer.org	
	<i>Sept 2013–Jul 2014</i>	Defining a Test Automation System for Mobile Apps
Institution	University of Porto · Faculty of Engineering	
Degree	Masters in Informatics and Computing Engineering	
Student	Renato Rodrigues	
Supervisor	Prof. Rui ABREU · rui@computer.org	
	<i>Sept 2012–Jun 2013</i>	HTML5-based Visualizations to Support Software Fault Isolation
Institution	University of Porto · Faculty of Engineering	
Degree	Masters in Informatics and Computing Engineering	
Student	Carlos Gouveia	
Supervisor	Prof. Rui ABREU · rui@computer.org	
	<i>Sept 2012–Jun 2013</i>	Generating Asserts for Test Cases Efficiently
Institution	University of Porto · Faculty of Engineering	
Degree	Masters in Informatics and Computing Engineering	
Student	Luís Pinho	
Supervisor	Prof. Rui ABREU · rui@computer.org	
	<i>Sept 2012–Jun 2013</i>	Automatic Debugging of Android Applications
Institution	University of Porto · Faculty of Engineering	
Degree	Masters in Informatics and Computing Engineering	
Student	Pedro Machado	
Supervisor	Prof. Rui ABREU · rui@computer.org	

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s)	Portuguese
Self-assessment	English
Social skills and competences	- Ability to work independently or as part of a team

- Responsibility, confidence, conscience and sincerity
- Ability to take initiative when necessary
- Determination and willingness to learn

*Organizational
skills and
competences*

- Ability to organize time and tasks
- Sense of responsibility

*Technical skills and
competences*

- Ability to develop applications for Unix
- Development of projects of software engineering: specification, design and implementation
- Creation of a documentation project on Software Engineering and user documentation
- Experience on object oriented programming (OOP)

Driving licence(s)

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