

JOSÉ CAMPOS

PERSONAL INFORMATION

Was born in Portugal, 29 January 1986

email jose.campos@sheffield.ac.uk
skype zecarlosdecampos
website jose.github.io
phone +351 964 616 542 — +44 07943 737915



WORK EXPERIENCE

- Sept 2016–Jan 2017* Teaching Assistant
The University of Sheffield
Supporting master students on advanced software testing activities.
Reference: Dr. Gordon FRASER · gordon.fraser@sheffield.ac.uk
- Sept 2015–Jan 2016* Teaching Assistant
The University of Sheffield
Supporting master students on advanced software testing activities.
Reference: Dr. 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: Dr. 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: Dr. 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: Dr. 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: Dr. 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: Dr. Gordon FRASER · gordon.fraser@sheffield.ac.uk and Dr. Rui ABREU · rui@computer.org
- Set 2006–Fev 2012* University of Porto, Portugal
Masters in Informatics and Computing Engineering
Informatics and Computing Engineering
Supervisor: Dr. Rui ABREU · rui@computer.org

PUBLICATIONS

- [1] José Campos, Yan Ge, Gordon Fraser, Marcelo Eler, and Andrea Arcuri.
An Empirical Evaluation of Evolutionary Algorithms for Test Suite Generation
Distinguished Paper Award.
In Tim Menzies and Justyna Petke, editors, *Proceedings of the 9th International Symposium Search-Based Software Engineering (SSBSE)*, pages 33–48. Springer International Publishing, Cham, 2017.
- [2] Spencer Pearson, José Campos, René Just, Gordon Fraser, Rui Abreu, Michael D. Ernst, Deric Pang, and Benjamin Keller.
Evaluating and improving fault localization.
In *Proceedings of the 39th ACM/IEEE International Conference on Software Engineering, ICSE '17*, pages 609–620, Piscataway, NJ, USA, 2017. IEEE Press.
- [3] Sina Shamshiri, José Campos, Gordon Fraser, and Phil McMinn.
Disposable Testing: Avoiding Maintenance of Generated Unit Tests by Throwing Them Away.
In *Proceedings of the 39th ACM/IEEE International Conference on Software Engineering, ICSE '17*, pages 207–209, 2017.
- [4] Gordon Fraser, José Miguel Rojas, José Campos, and Andrea Arcuri.
EvoSuite at the SBST 2017 Tool Competition.
In *Proceedings of the 10th International Workshop on Search-Based Software Testing, SBST '17*, pages 39–42, 2017.
- [5] 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*, pages 401–408, Washington, DC, USA, 2016. IEEE Computer Society.
- [6] 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.
- [7] 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, *Proceedings of the 7th International Symposium Search-Based Software Engineering (SSBSE)*, volume 9275 of *Lecture Notes in Computer Science*, pages 93–108. Springer International Publishing, 2015.
- [8] José Campos, Gordon Fraser, Andrea Arcuri, and Rui Abreu.
Continuous Test Generation on Guava.
In Márcio Barros and Yvan Labiche, editors, *Proceedings of the 7th International Symposium Search-Based Software Engineering (SSBSE)*, volume 9275 of *Lecture Notes in Computer Science*, pages 228–234. Springer International Publishing, 2015.
- [9] Ermira Daka, José Campos, Jonathan Dorn, Gordon Fraser, and Westley Weimer.
Generating Readable Unit Tests for Guava.
In Márcio Barros and Yvan Labiche, editors, *Proceedings of the 7th International Symposium Search-Based Software Engineering (SSBSE)*, volume 9275 of *Lecture Notes in Computer Science*, pages 235–241. Springer International Publishing, 2015.
- [10] 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.
- [11] 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.
- [12] 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.
- [13] 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.

- [14] 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.
- [15] 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.
- [16] 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.
- [17] 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
<i>Conference</i>	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
<i>Conference</i>	The 37th International Conference on Software Engineering (ICSE)	
	<i>Jun 2014</i>	Organising Committee
<i>Conference</i>	The 10th International Summer School on Training And Research On Testing (TAROT)	
	<i>Nov 2013</i>	Student Volunteer
<i>Conference</i>	The 28th IEEE/ACM International Conference on Automated Software Engineering (ASE)	
	<i>Apr 2013</i>	Session-Chair of Software Testing track
<i>Conference</i>	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
<i>Institution</i>	University of Porto · Faculty of Engineering	
<i>Degree</i>	Masters in Informatics and Computing Engineering	
<i>Student</i>	Jorge Costa	
<i>Supervisor</i>	Dr. Rui ABREU · rui@computer.org	
	<i>Sept 2013–Jul 2014</i>	Defining a Test Automation System for Mobile Apps
<i>Institution</i>	University of Porto · Faculty of Engineering	
<i>Degree</i>	Masters in Informatics and Computing Engineering	
<i>Student</i>	Renato Rodrigues	
<i>Supervisor</i>	Dr. Rui ABREU · rui@computer.org	
	<i>Sept 2012–Jun 2013</i>	HTML5-based Visualizations to Support Software Fault Isolation
<i>Institution</i>	University of Porto · Faculty of Engineering	
<i>Degree</i>	Masters in Informatics and Computing Engineering	
<i>Student</i>	Carlos Gouveia	
<i>Supervisor</i>	Dr. Rui ABREU · rui@computer.org	
	<i>Sept 2012–Jun 2013</i>	Generating Asserts for Test Cases Efficiently
<i>Institution</i>	University of Porto · Faculty of Engineering	
<i>Degree</i>	Masters in Informatics and Computing Engineering	
<i>Student</i>		
<i>Supervisor</i>		

Luís Pinho
Dr. Rui ABREU · rui@computer.org

Sept 2012– **Automatic Debugging of Android Applications**
Jun 2013

Institution
Degree
Student
Supervisor

University of Porto · Faculty of Engineering
Masters in Informatics and Computing Engineering
Pedro Machado
Dr. Rui ABREU · rui@computer.org

PERSONAL SKILLS AND COMPETENCES

<i>Mother tongue(s)</i>	Portuguese
<i>Self-assessment</i>	English
<i>Social skills and competences</i>	<ul style="list-style-type: none">- 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
<i>Organizational skills and competences</i>	<ul style="list-style-type: none">- Ability to organize time and tasks- Sense of responsibility
<i>Technical skills and competences</i>	<ul style="list-style-type: none">- 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)
<i>Driving licence(s)</i>	B