Bruno Lima



	Work Experience
January 2019 – Present	Researcher Assistant , <i>Institute for Systems and Computer Engineering of Porto</i> , Porto, Portugal.
September 2019 – Present	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal. Computer Architecture and Organization
February 2019 – August 2019	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal. Microprocessors and Personal Computers
September 2018 – February 2019	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal. Computer Architecture and Organization
August 2015 – December 2018	Researcher Assistant, Institute for Systems and Computer Engineering of Porto, Porto, Portugal. Research in NANOSTIMA project
February 2018 – August 2018	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal. Microprocessors and Personal Computers
September 2017 – February 2018	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal. Computer Architecture and Organization
February 2017 – August 2017	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal. Microprocessors and Personal Computers
September 2016 – February 2017	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal. Computer Architecture and Organization
February 2016 – August 2016	Assistant Lecturer , Faculty of Engineering of the University of Porto, Porto, Portugal.

Microprocessors and Personal Computers

September 2015 Assistant Lecturer, Faculty of Engineering of the University of Porto, Porto, Portugal.

Computer Architecture and Organization

March 2015 – Researcher Assistant, Faculty of Engineering of the University of Porto and Institute

July 2015 – **Researcher Assistant**, Faculty of Engineering of the University of Porto and Institute for Systems and Computer Engineering of Porto, Porto, Portugal.

Research in SIBILA project

March 2014 – Researcher Assistant, Faculty of Engineering of the University of Porto and Institute for Systems and Computer Engineering of Porto, Porto, Portugal.

Research in AAL4ALL project - Definition of a testing and certification methodology for the AAL4ALL products and services.

September 2013 Researcher Assistant, Institute for Systems and Computer Engineering of Porto,
Porto, Portugal.

Research in AAL4ALL project - Definition of a testing and certification methodology for the

Research in AAL4ALL project - Definition of a testing and certification methodology for the AAL4ALL products and services.

July 2012 – **Software Developer**, *NDrive*, Porto, Portugal.

September 2012 NDrive Internship as Software Development - Improved the NLife extension (is co-author) and worked in a new social website they will launch soon.

June 2007 – **Computer Technician**, *Årea Soft, Lda*, Trofa, Portugal.

July 2007 Tasks of repairing computer equipment (hardware and software) and taught courses microsoft office. This internship was part of professional course in EPVC.

Education

January 2015 – **Doctoral Program in Informatics Engineering**, Faculty of Engineering of the University of Porto, Porto, Portugal.

September 2008 Integrated Masters in Informatics and Computing Engineering, Faculty of Engineering of the University of Porto, Porto, Portugal.

Grade average of 15 out of 20

September 2004 Professional Course Technical the Informatics/Management, Escola Profissional

– July 2007 De Vila Do Conde (EPVC), Vila do Conde, Portugal.

Grade average of 19 out of 20.

Awards

Faculty of Engineering of the University of Porto's Pedagogical Merit Award, January 2020

Best Paper Award at the The Eleventh International Conference on Advances in System Testing and Validation Lifecycle (VALID 2019), Valencia, Spain, 2019

"Prémio Escolar Municipal", in 2008, awarded by mayor of Vila do Conde to the student with the best grade average in 2006/2007 from each of the schools in the municipality.

Publications

- 2020 Published Bruno Lima, João Pascoal Faria and Robert Hierons, Local Observability and Controllability Analysis and Enforcement in Distributed Testing With Time Constraints, IEEE Access.
- 2020 Accepted Bruno Lima and João Pascoal Faria, *DCO Analyzer: Local Controllability and Observability Analysis and Enforcement of Distributed Test Scenarios*, 42nd International Conference on Software Engineering (ICSE 2020).
- 2020 Published João Pedro Dias, Bruno Lima, João Pascoal Faria, André Restivo and Hugo Sereno Ferreira, *Visual Self-healing Modelling for Reliable Internet-of-Things Systems*, International Conference on Computational Science (ICCS 2020).
- 2019 Published Bruno Lima, João Pascoal Faria, and Robert Hierons, *Local Observability and Controllability Enforcement in Distributed Testing*, 12th International Conference on the Quality of Information and Communications Technology (QUATIC 2019).
- 2019 Published Hugo Cunha, João Pascoal Faria, and Bruno Lima, Low-Code Solution for IoT Testing, The Eleventh International Conference on Advances in System Testing and Validation Lifecycle (VALID 2019).
- 2019 Published Bruno Lima, Automated Scenario-Based Integration Testing of Time-Constrained Distributed Systems, 12th IEEE Conference on Software Testing, Validation and Verification (ICST 2019).
- 2018 Published Bruno Lima, *Automated Scenario-Based Integration Testing of Distributed Systems*, 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2018).
- 2018 Published Pedro Martins Pontes, Bruno Lima and João Pascoal Faria, *Test Patterns for IoT*, 9th ACM SIGSOFT International Workshop on Automating TEST Case Design, Selection, and Evaluation (A-TEST 2018).
- 2018 Published Bruno Lima and João Pascoal Faria, *Towards Real-Time Patient Prioritizationin Hospital Emergency Services*, IEEE 20th International Conference on e-Health Networking, Applications and Services (Healthcom 2018).
- 2018 Published Pedro M. Pontes, Bruno Lima, and J. Pascoal Faria, Izinto: A Pattern-Based IoT Testing Framework, Workshop on Testing, Analysis, and Verification of Cyber-Physical Systems and Internet of Things (TAV-CPS/IoT 2018).
- 2018 Published João Soares, Bruno Lima and João Pascoal Faria, *Automatic Model Transformation from UML Sequence Diagrams to Coloured Petri Nets*, 6th International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2018).
- 2017 Published Bruno Lima and João Pascoal Faria, Conformance Checking in Integration Testing of Time-constrained Distributed Systems based on UML Sequence Diagrams, 12th International Joint Conference on Software Technologies (ICSOFT 2017).

- 2017 Published Bruno Lima and João Pascoal Faria, *Towards Decentralized Conformance Checking in Model-Based Testing of Distributed Systems*, IEEE 10th International Conference on Software Testing, Verification and Validation Workshops (ICSTW 2017).
- 2017 Published Bruno Lima and João Pascoal Faria, *A Survey on Testing Distributed and Heterogeneous Systems: The State of the Practice*, , Software Technologies, CCIS.
- 2016 Published Bruno Lima and João Pascoal Faria, *Towards the Online Testing of Distributed and Heterogeneous Systems with Extended Petri Nets*, 10th International Conference on the Quality of Information and Communications Technology (QUATIC 2016).
- 2016 Published Tiago Coelho, Bruno Lima and João Pascoal Faria, *MT4A: A no-programming test automation framework for Android applications*, 7th International Workshop on Automating Test Case Design, Selection, and Evaluation (A-TEST 2016).
- 2016 Published Bruno Lima and João Pascoal Faria, *Testing Distributed and Heterogeneous Systems:*State of the Practice, 11th International Conference on Software Engineering and Applications (ICSOFT 2016).
- 2016 Published Bruno Lima and João Pascoal Faria, A Model-Based Approach for Product Testing and Certification in Digital Ecosystems, IEEE 9th International Conference on Software Testing, Verification and Validation Workshops (ICSTW 2016).
- 2016 Published Bruno Lima, *Automated Scenario-based Testing of Distributed and Heterogeneous Systems*, IEEE International Conference on Software Testing, Verification and Validation (ICST 2016).
- 2016 Published Bruno Lima and João Pascoal Faria, *Automated Testing of Distributed and Heterogeneous Systems Based on UML Sequence Diagrams*, Software Technologies, CCIS 586, pp. 1–17.
- 2015 Published Bruno Lima and João Pascoal Faria, *An Approach for Automated Scenario-based Testing of Distributed and Heterogeneous Systems*, 10th International Conference on Software Engineering and Applications (ICSOFT 2015).
- 2014 Published João Pascoal Faria, Bruno Lima, Tiago Boldt Sousa and Angelo Martins, *A Testing and Certification Methodology for an Open Ambient-Assisted Living Ecosystem*, International Journal on E-health and Medical Communications (IJEHMC).
- 2013 Published João Pascoal Faria, Bruno Lima, Tiago Boldt Sousa and Angelo Martins, *A testing and certification methodology for an Ambient-Assisted Living ecosystem*, IEEE International Conference on e-Health Networking, Application & Services (IEEE Healthcom 2013).

Events

- Conference 12th Symposium on Search-Based Software Engineering (SSBSE 2020) [Publication Chair]
- Conference IEEE 13th International Conference on Software Testing, Verification and Validation 2019 (ICST 2020) [Local Organization Chair]
- Conference The Sixth International Conference on Advances and Trends in Software Engineering (SOFTENG 2020) [PC Member]
- Conference The Fifth International Conference on Fundamentals and Advances in Software Systems Integration (FASSI 2019) [PC Member]

Conference The Eleventh International Conference on Advances in System Testing and Validation Lifecycle (VALID 2019) [PC Member]

Conference 11th Symposium on Search-Based Software Engineering (SSBSE 2019) [Publication Chair]

Conference 19th IEEE International Conference on Software Quality, Security, and Reliability (QRS 2019) [Social Media Chair]

Conference The Fifth International Conference on Advances and Trends in Software Engineering (SOFTENG 2019) [PC Member]

Conference The 46th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL 2019) [Student Volunteer]

Conference The second annual Facebook TAV Symposium (Facebook TAV 2018)

Conference The 26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2018) [Author / Student Volunteer]

Conference The Tenth International Conference on Advances in System Testing and Validation Lifecycle (VALID 2018) [PC Member]

Conference The Fourth International Conference on Fundamentals and Advances in Software Systems Integration (FASSI 2018) [PC Member]

Conference 18th IEEE International Conference on Software Quality, Security, and Reliability (QRS 2018) [Local Organizing Co-Chair]

Conference 40th International Conference on Software Engineering (ICSE 2018) [Student Volunteer]

Conference First International Workshop on Verification and Validation of Internet of Things (VVIoT 2018) [PC Member / Webmaster]

Conference 6th International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2018) [Author]

Conference Web Summit 2017 (Web Summit 2017) [Student Volunteer - Team Leader]

Conference 5th User Conference on Advanced Automated Testing (UCAAT 2017)

Conference CPS Summer School (CPS SS 2017)

Conference 13th International Summer School on Training And Research On Testing (TAROT 2017)

Conference 12th International Joint conference on Software Technologies (ICSOFT 2017) [Author]

Conference IEEE 10th International Conference on Software Testing, Verification and Validation 2017 (ICST 2017) [Student Volunteer / Session Chair / Author]

Conference TESTING Portugal 2016

Conference ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2016) [Author]

Conference 4th User Conference on Advanced Automated Testing (UCAAT 2016)

Conference 10th International Conference on the Quality of Information and Communications Technology 2016 (QUATIC 2016) [Author]

Conference 11th International Joint conference on Software Technologies (ICSOFT 2016) [Author]
Summer school 12th International Summer School on Training And Research On Testing (TAROT

2016)

Conference IEEE 9th International Conference on Software Testing, Verification and Validation

2016 (ICST 2016) [Author]

Doctoral 11th Doctoral Symposium in Informatics Engineering (DSIE'16)[Co-Chair]

Symposium

Conference TESTING Portugal 2015

Conference 3rt User Conference on Advanced Automated Testing (UCAAT 2015)

Conference 10th International Joint conference on Software Technologies (ICSOFT 2015) [Author]

Summer school 10th International Summer School on Training And Research On Testing (TAROT

2014)

Conference IEEE International Conference on e-Health Networking, Application & Services (IEEE

Healthcom 2013) [Author]

Student Talk a Bit 2013 [Co-founder / Organizing Chair]

Conference

Co-supervisor

September 2018 Hugo Cunha (MSc) – Low-Code Solution for IoT Testing

- July 2019

September 2017 Pedro Pontes (MSc) – A Pattern-based Testing Framework for IoT Ecosystems

- July 2018

September 2016 João Soares (MSc) – Automatic Model Transformation from UML Sequence Diagrams

- July 2017 to Coloured Petri Nets

September 2016 José Cardoso (MSc) - Automatic Assessment of Programming Assignments for E-

- July 2017 learning

September 2015 Tiago Coelho (MSc) – Automation of mobile application testing without programming

- July 2016

Languages

Portuguese Proficient User - C2 (Native Language)

English Proficient User - C1

Spanish Independent User - B1

Italian Basic User - A1

Computer skills

Programming Pascal, Visual Basic, C#, C, C++, Java, Prolog, Python, Scheme, JavaScript

Languages

Markup XML, XHTML, LaTeX, CSS

Languages

ase MySQL, PostgreSQL

Database Management

Systems

Revision Control CVS, Subversion, Git

Systems

Frameworks and Technologies

Android, Windows Phone, OpenGL, Java Swing

Driving licence(s)

Α1

A2

Α

В1

В

Pedagogical formations

The New Role of the Educator: Best Practices in Online Education

Motivation in higher education - what drives the wheel: Module I - Motivation in

students

Workshop on the U.Porto Peer Mentoring Program

Additional Information

Internship "OTL Pense Industria"

Course of first aid and ambulance crew

Defensive driving course

Volunteer in the paddock of the Boavista Circuit 2011

Volunteer in the media center of the Boavista Circuit 2013

Interests

Watch sports Football and Formula 1

Playing sports MTB, Running and Geocaching

Travel Around the world