

Curriculum Vitae

Personal information

Surname(s) / First name(s)	Rojas Siles, José Miguel
Telephone(s)	(+44) 114 222 1975
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Email(s)	jrojas@sheffield.ac.uk, jmrs84@gmail.com
Nationality	Bolivian
Date of birth	13 January 1984

Education and training

Dates	10/2009 – 12/2013
Institution	Technical University of Madrid, Spain
Degree awarded	<i>Phd. in Software and Systems</i>
Thesis title	Test Case Generation in Object Oriented Programming
Dates	02/2008 – 09/2009
Institution	Autonomous University of Madrid, Spain
Study	<i>Postgraduate Study in Computer Engineering and Telecommunications</i>
Dates	04/2005 – 12/2005
Institution	Autonomous University of Santa Cruz, Bolivia
Qualification awarded	<i>Postgraduate Diploma in Higher Education</i>
Dates	04/2005 – 12/2005
Institution	Autonomous University of Santa Cruz, Bolivia
Qualification awarded	<i>Postgraduate Diploma in Regional Leadership</i>
Dates	02/2001 – 12/2005
Institution	Autonomous University of Santa Cruz, Bolivia
Degree awarded	<i>Computer Engineer</i>

Work experience

Dates	02/2014 –
Occupation or position held	Postdoctoral Research Associate in Software Testing
Name and address of employer	Department of Computer Science - The University of Sheffield.
Type of business or sector	Education
Dates	10/2009 – 12/2013
Occupation or position held	Predoctoral Research Grant, awarded by the Spanish Ministry of Science and Education under the National Program for Training Human Resources
Name and address of employer	Department of Computer Science - Technical University of Madrid
Type of business or sector	Education
Dates	12/2007 – 08/2009
Occupation or position held	IT Trainee
Name and address of employer	IT Department - Autonomous University of Madrid, Spain
Type of business or sector	Education

Dates	06/2006 – 09/2007
Occupation or position held	.NET Developer
Name and address of employer	ABJ Consulting, Santa Cruz, Bolivia
Type of business or sector	Information and Communication
Dates	02/2006 – 12/2006
Occupation or position held	Mathematics Laboratory Assistant
Name and address of employer	Autonomous University of Santa Cruz, Bolivia
Type of business or sector	Education
Dates	02/2004 – 12/2005
Occupation or position held	Teaching Assistant (Principles of Informatics, Compilers)
Name and address of employer	Autonomous University of Santa Cruz, Bolivia
Type of business or sector	Education
Dates	02/2004 – 07/2004
Occupation or position held	Teaching Assistant (Computer Programming, Data Structures)
Name and address of employer	University of Aquino in Santa Cruz, Bolivia
Type of business or sector	Education

Publications

2014

Elvira Albert, Puri Arenas, Miguel Gómez-Zamalloa, and José Miguel Rojas.
Test Case Generation by Symbolic Execution: Basic Concepts, a CLP-Based Instance, and Actor-Based Concurrency.
In *SFM 2014, Formal Methods for Executable Software Models, Advanced Lectures*, volume 8483 of *LNCS*, pages 263–309. Springer, 2014.

2013

Elvira Albert, María García de la Banda, Miguel Gómez-Zamalloa, José Miguel Rojas, and Peter Stuckey.
A CLP Heap Solver for Test Case Generation.
Journal of Theory and Practice of Logic Programming (TPLP), ICLP 2013 Special Issue., 13(4-5):721–735, 2013.

José Miguel Rojas and Corina S. Păsăreanu.
Compositional Symbolic Execution through Program Specialization.
In *BYTECODE 2013*, 2013.
Peer-reviewed workshop (co-located with ETAPS) with no formal proceedings.

2012

Elvira Albert, Diego Esteban Alonso-Blas, Puri Arenas, Jesús Correas, Antonio Flores-Montoya, Samir Genaim, Miguel Gómez-Zamalloa, Abu Naser Masud, German Puebla, José Miguel Rojas, Guillermo Román-Díez, and Damiano Zanardini.
Automatic inference of bounds on resource consumption.
In *FMCO 2012, Formal Methods for Components and Objects, Revised Lectures*, volume 7866 of *LNCS*, pages 119–144. Springer, 2012.

José Miguel Rojas and Miguel Gómez-Zamalloa.
A Generic Framework for Guided Test Case Generation in CLP.
In *LOPSTR 2012*, volume 7844 of *LNCS*, pages 176–193. Springer, 2012.

Elvira Albert, Bjarte M. Østfold, and José Miguel Rojas.
JMS2ABS: Automated extraction of abstract behavioural models from jms applications.
In *FMICS 2012*, volume 7437 of *LNCS*, pages 16–31. Springer, 2012.

2011

Elvira Albert, Miguel Gómez-Zamalloa, and José Miguel Rojas.
Resource-driven clp-based test case generation.
In *LOPSTR 2011 Revised Selected Papers*, volume 7225 of *LNCS*, pages 25–41.
Springer, 2012.

Carmen Navarrete, Marina de la Cruz, Eloy Anguiano, Alfonso Ortega, and José Miguel Rojas.
Parallel simulation of neps on clusters.
In *WI-IAT 2011*, volume 3, pages 171–174, 2011.

2010

Elvira Albert, Miguel Gómez-Zamalloa, José Miguel Rojas, and Germán Puebla.
Compositional clp-based test data generation for imperative languages.
In *LOPSTR 2010*, volume 6564 of *LNCS*, pages 99–116. Springer, 2011.

José Miguel Rojas, Marina de la Cruz Echeandía, and Alfonso Ortega de la Puente.
Towards the automatic programming of h systems: jhsys, a java h system simulator.
In *PAAMS 2010 (Special Sessions and Workshops)*, volume 71 of *Advances in Soft Computing*, pages 387–394. Springer, 2010.

2009

Emilio del Rosal, José Miguel Rojas, Rafael Núñez, Carlos Castañeda, and Alfonso Ortega de la Puente.
On the solutions of np-complete problems by means of jnep run on computers.
In *ICAART 2009*, pages 605–612. INSTICC Press, 2009.

Research stays

Institution
Host Researcher(s)
Dates

NASA Ames Research Center, Moffett Field, CA USA
Prof. Corina Păsăreanu
4 months, 09/2012 – 12/2012

Institution
Host Researcher(s)
Dates

KTH Royal Institute of Technology, Stockholm, Sweden
Prof. Mads Dam
3 months, 05/2011 – 07/2011

Research Projects

Current Projects

Project title
Financing Organization
Participant Organizations
Duration
Main Researcher

EXOGEN: *Explorative Test Oracle Generation*
Engineering and Physical Sciences Research Council (EPSRC) (EP/K030353/1)
Google, Microsoft, University of Sheffield, Reino Unido
02/2014 – 08/2015
Gordon Fraser

Past Projects

Project title
Financing Organization
Participant Organizations
Duration
Main Researcher

PROMETIDOS-CM: *Madrid Program in Rigorous Methods for the Development of Software*
Madrid Regional Government (CAM S2009TIC-1465)
IMDEA Software, UPM, UCM
January 2010 – December 2013
Francisco Bueno

Project title
Financing Organization
Participant Organizations
Duration

DOVES: *Development Of Verifiable and Efficient Software*
Spanish Ministry of Science and Innovation (TIN 2008-05624)
UPM
January 2009 – December 2013

Main Researcher

Manuel Hermenegildo

Project title

HATS: *Highly Adaptable and Trustworthy Software using Formal Models*

Financing Organization

CE ICT GA#231620

Participant Organizations

CTH (Sweden), UIO (Norway), KTH (Sweden), UPM (Spain), UKL (Germany), BOL (Italy), CWI (Holland), NRS (Norway), FRH (Germany), FRG (Holland), KUL (Belgium)

Duration

March 2009 – February 2013

Main Researcher

Germán Puebla

Other research activities

Summer School

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

Organizer

Facultade de Engenharia, Universidade do Porto, Portugal

Location

Porto, Portugal

Dates

29/06–04/07/2014

Summer School

8th LASER Summer School on Soft. Eng.: Tools for Practical Software Verification

Organizer

ETH Chair of Software Engineering

Location

Elba Island, Italy

Dates

04–10/09/2011

Summer School

1st PROMETIDOS-CM Summer School

Organizer

Complutense University of Madrid

Location

Madrid, Spain

Dates

19–21/09/2011

Languages

Mother tongue(s)

Spanish

Other language(s)

Self-assessment

European level^()*

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

^(*) Common European Framework of Reference (CEF) level