

# Rui Carlos A. Gonçalves

## Curriculum Vitae

### Personal Information

Name	Rui Carlos Araújo Gonçalves
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Webpage	<a href="http://rcgoncalves.net">http://rcgoncalves.net</a>
Nationality	Portuguese
Date of Birth	25/12/1985

### Education

- 09/2009 – present **MAP-i (Doctoral Programme in Computer Science)**, Universidade do Minho, Braga / Portugal.
- 09/2003 – 11/2008 **Mathematics and Computer Science Course**, Universidade do Minho, Braga / Portugal, Final grade: 17/20.
- 09/2000 – 07/2003 **High school (Natural Sciences)**, Escola Secundária de Sá de Miranda, Braga / Portugal, Final grade: 17/20.

### Work Experience

- 03/2012 – 09/2012 **Visiting Researcher**, The University of Texas at Austin, Austin (TX) / USA.
- 03/2011 – 08/2011 **Visiting Researcher**, The University of Texas at Austin, Austin (TX) / USA.
- 06/2010 – 05/2013 **Researcher**, Project *GAsPar*, Universidade do Minho, Braga / Portugal.
- 06/2009 – 05/2011 **Researcher**, Project *PRIA*, Universidade do Minho, Braga / Portugal.
- 12/2007 – 12/2009 **Research Assistant**, Project *AspectGrid*, Universidade do Minho, Braga / Portugal. Development of tools to adapt applications for distributed and grid environments.
- 08/2007 – 10/2008 **Software Developer**. Development of a students' management application.
- 03/2007 – 11/2007 **Research Assistant**, Project *PPC-VM*, Universidade do Minho, Braga / Portugal. Adaptation of applications for parallel architectures, using aspect oriented techniques.

### Publications

Rui Carlos Gonçalves and João Luís Sobral. Pluggable parallelization. In *HPDC'09: Proceedings of the 18th ACM international symposium on High Performance Distributed Computing*, pages 11–20, 2009.

Rui Carlos Gonçalves and João Luís Sobral. Modular and non-invasive distributed memory parallelization. In *MISS'12: Proceedings of the 2012 workshop on Modularity in Systems Software*, pages 33–38, 2012.

Edgar Sousa, Rui Carlos Gonçalves, Diogo Telmo Neves, and João Luís Sobral. Non-invasive gridification through an aspect-oriented approach. In *Ibergrid '08: Proceeding of the 2nd Iberian Grid Infrastructure Conference*, pages 323–334, 2008.

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## Complementary Training

- 05/2011 **WOLFHPC 2011**, Tucson (AZ) / USA.
- 01/2011 **Winter Advanced Computing Seminars**, Universidade do Minho / Portugal.
- 07/2010 **Conference on Numerical Linear Algebra: Perturbation, Performance, and Portability**, The University of Texas at Austin.
- 06/2010 – 07/2010 **SciPy 2010**, Austin (TX) / USA.
- 01/2010 – 05/2010 **Software Design course**, The University of Texas at Austin / USA.  
Final grade: A.
- 01/2010 – 05/2010 **Parallel Systems course**, The University of Texas at Austin / USA.  
Final grade: A-.
- 01/2010 – 05/2010 **Introduction to Mathematical Logic course**, The University of Texas at Austin / USA.  
Final grade: A.
- 09/2007 – 12/2009 **English Course**, Wall Street Institute.  
Final level: Milestone 2.
- 07/2009 **GTTSE 2009**, Braga / Portugal.
- 06/2009 **Advanced Seminar on Multicore Platforms**, Universidade do Minho / Portugal.  
Topics: Dense linear algebra libraries: deriving high performance from abstraction; Parallelism in irregular algorithms; Data parallel programming and the hierarchically tiled arrays; Introduction to PGAS programming paradigm with UPC; Parallel computing on manycore GPUs; and Employing Intel Threading Building Blocks to utilize multi-core processors.
- 05/2009 **Spring School in Advanced Computing TACC @ UP**, Universidade do Porto / Portugal.  
Topics: Advanced MPI programming; Hybrid programming with OpenMP and MPI; Profiling, optimization and debugging of code; Advanced visualization techniques; and Visualizing very large datasets.
- 05/2008 **IBERGRID 2008**, Universidade do Porto / Portugal.
- 11/2007 **Framework Catalyst Training**, Universidade do Minho / Portugal.
- 03/2007 **ETAPS 2007**, Universidade do Minho.
- 10/2006 – 05/2007 **Open Course of English A2**, Universidade do Minho / Portugal.

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## Languages

- Portuguese Native language
- English Understanding - C1 (Proficient user)  
Speaking - B2 (Independent user)  
Writing - B2 (Independent user)  
TOEFL iBT: 94/120
- Spanish Understanding - B1 (Independent user)  
Speaking - A1 (Basic user)  
Writing - A1 (Basic user)

French Understanding - A2 (Basic user)  
Speaking - A1 (Basic user)  
Writing - A1 (Basic user)

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## Organization skills and competences

- Students' delegate of the Mathematics and Computer Science course, in the academic year 2007/2008, at Universidade do Minho
- Students' deputy delegate of the Mathematics and Computer Science course, in the academic year 2006/2007, at Universidade do Minho
- Supported the organization of *JOIN 2007*
- Supported the organization of *ETAPS 2007*

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## Awards

- 2009 **Universidade do Minho Award**, Universidade do Minho.
- 2008 **Best Student Paper Award**, IBERGRID 2008.
- 2008 **Scholar Merit Award**, Universidade do Minho.
- 2007 **Scholar Merit Award**, Universidade do Minho.
- 2006 **Scholar Merit Award**, Universidade do Minho.
- 2005 **Scholar Merit Award**, Universidade do Minho.