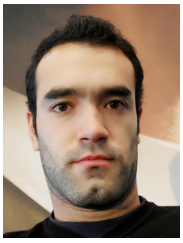
Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)	**Nuno Ernesto Salgado Oliveira**
Address(es)	Rua Tapada da Fonte, 1018, 4760-024, Antas, Vila Nova de Famalicão, Portugal
Telephone(s)	+351 252 105417 Mobile: +351 917 588 604
E-mail	nuno43549@gmail.com, nunooliveira@di.uminho.pt, nuno.s.oliveira@inesctec.pt
Website	alfa.di.uminho.pt/~nunooliveira/
Nationality	Portuguese
Date of birth	26/02/1986
Gender	Male

Work experience

Dates	From Oct 2014 to now
Position	Senior Programmer
Main activities and responsibilities	Programming, Software analysis
Name and address of employer	*Checkmarx*, Tel-Aviv, Israel
Type of business or sector	Code analysis and security

Dates	From Oct 2012 to Jul 2013
Position	Invited-Lecturer
Main activities and responsibilities	Invited-Lecturer in a master course on Language Engineering
Name and address of employer	*Universidade do Minho*, Dept. of Informatics, Campus de Gualtar, Braga;
Type of business or sector	Teaching

Dates	From Feb 2010 to Jul 2011
Occupation or position held	Assistant-Lecturer (Monitor)
Main activities and responsibilities	Assistant-Lecturer (Monitor in practical classes) in a course on Imperative Programming
Name and address of employer	*Universidade do Minho*, Dept. of Informatics, Campus de Gualtar, Braga;
Type of business or sector	Teaching

Dates	From 2007 to 2008
Occupation or position held	Web Developer
Main activities and responsibilities	Development of a Web Applications to submission, assessment and management of applications for European funds. It was developed under .Net Framework using ASP and C#, with SQL Server 2005 as database support.
Name and address of employer	*Universidade do Minho*, Dept. of Informatics, Campus de Gualtar, Braga; *CCDRN* (Comissão de Coordenação e Desenvolvimento da Região Norte)
Type of business or sector	Software Development

Education and training

PhD in Computer Science

Dates	February/March 2015 (expected)
Institution	Universidade do Minho, Universidade de Aveiro and Universidade do Porto
Classification	

M.Sc in Informatics

Date	December 2009
Institution	Universidade do Minho, Campus de Gualtar, 4710-057, Braga
Classification	19

B.Sc. in Computer Sciences

Dates	July 2007
Institution	Universidade do Minho, Campus de Gualtar 4710-057, Braga
Classification	15

Personal skills and competences

Mother tongue(s) **Portuguese**

Other language(s) **English, Spanish, French, Italian**

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient User	C2	Proficient User	B2	Independent User	C1	Proficient User	C2	Proficient User
Spanish	A2	Basic User	B1	Independent User	A1	Basic User	A1	Basic User	A1	Basic User
French	A1	Basic User	B1	Independent User	A1	Basic User	A1	Basic User	A2	Basic User
Italian	A2	Basic User	B1	Independent User	A2	Basic User	A2	Basic User	A2	Basic User

(*) Common European Framework of Reference for Languages (http://europass.cedefop.europa.eu/LanguageSelfAssessmentGrid/en)

Research

Domain of specialization	Computer Science - Language Processing - Software Architectures
Research interests	Software architectures; Software reconfiguration; Self-adaptive software; Compilers; Language processing techniques, Fuzzy parsing; Program comprehension; Ontologies; Semantic web.

Co-supervisions

Pedro Carvalho
M.Sc. thesis: “Unfuzzying Fuzzy Parsing”
Co-supervisor: Pedro Rangel Henriques
Date: (expected) February 2015

Flávio Rodrigues
M.Sc. thesis: “An Engine for Coordination-based Architectural Reconfigurations"
Co-supervisor: Luís Soares Barbosa
Date: December 2014

Journal Publications

oliveira2015
Nuno Oliveira, Alexandra Silva, and Luís S. Barbosa. “IMC_{Reo}: interactive Markov chains for stochastic Reo”. In: Journal of Internet Services and Information Security 5.1 (Feb. 2015). Imprint.

sanchez2015
Alejandro Sanchez, Nuno Oliveira, Luis S. Barbosa, and Pedro Henriques. “A perspective on architectural re-engineering”. In: Science of Computer Programming 98 (Jan. 2015), pp. 764–784.

oliveira2011
Nuno Oliveira, Nuno Rodrigues, Pedro R. Henriques. *Domain-Specific Language for Coordination Patterns. In Computer Science and Information Systems*, ComSIS Consortium, vol. 8, no. 2, pp. 343-359, 2011.

lukovic2011
Ivan Luković, Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, Pedro R. Henriques. *A DSL for PIM Specifications: Design and Attribute Grammar based Implementation. In Computer Science and Information Systems*, ComSIS Consortium, vol. 8, no. 2, pp. 379-403, 2011.

oliveira2010a
Nuno Oliveira, Maria João Varanda Pereira, Pedro Rangel Henriques, Daniela da Cruz, Bastian Cramer. *VisualLISA: A Visual Environment to Develop Attribute Grammars. In Computer Science and Information Systems*, ComSIS Consortium, vol. 7, no. 2, pp. 265-290, 2010.

kosar2010a
Tomaž Kosar, Nuno Oliveira, Marjan Mernik, Maria J. V. Pereira, Matej Črepinšek, Daniela da Cruz, Pedro R. Henriques. *Comparing General-Propose and Domain-Specific Langauges: An Empirical Study. In Computer Science and Information Systems*, ComSIS Consortium, vol. 7, no. 2, pp. 247-264, 2010.

Book Chapters

pereira2014
Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, and Pedro Henriques. *An effective Way to Teach Language Processing Courses*. In: Innovative Teaching Strategies and New Learning Paradigms in Computer Programming. Ed. by Ricardo Queirós. Hershey, PA, USA: IGI Global, Nov. 2014.

Conference Publications

oliveira2013a
Nuno Oliveira, Luís S. Barbosa. *On the reconfiguration of software connectors*. In Proceedings of the 28th Annual ACM Symposium on Applied Computing, ACM, vol. 2, Coimbra, Portugal, pp. 1885-1892, 2013.

oliveira2013b
Nuno Oliveira, Luís S. Barbosa. *Reconfiguration Mechanisms for Service Coordination*. Chapter in Web Services and Formal Methods (MauriceH Beek, Niels Lohmann, eds.), Springer Berlin Heidelberg, vol. 7843, pp. 134-149, 2013.

pereira2013
Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, Pedro Rangel Henriques. *Choosing Grammars to Support Language Processing Courses*. In 2nd Symposium on Languages, Applications and Technologies (José Paulo Leal, Ricardo Rocha, Alberto Simões, eds.), Schloss Dagstuhl--Leibniz-Zentrum fuer Informatik, vol. 29, Dagstuhl, Germany, pp. 155-168, 2013.

oliveira2012
Nuno Oliveira and Maria João Varanda Pereira and Alda L. Gancarski and Pedro Rangel Henriques. *Learning Spaces for Knowledge Generation*. In 1st Symposium on Languages, Applications and Technologies, SLATE 2012 (Alberto Simões, Ricardo Queirós, Daniela da Cruz, ed.), Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, OASIcs, vol. 21, pp. 175-184, 2012.

prereira2012
Maria João Varanda Pereira and Mario Berón and Daniela da Cruz and Nuno Oliveira and Pedro Rangel Henriques. *Problem Domain Oriented Approach for Program Comprehension*. In 1st Symposium on Languages, Applications and Technologies, SLATE 2012 (Alberto Simões, Ricardo Queirós, Daniela da Cruz, ed.), Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, OASIcs, vol. 21, pp. 91-105, 2012.

rodrigues2011
Nuno Rodrigues, Nuno Oliveira, Luís Soares Barbosa. *The role of coordination analysis in software integration projects. In On the Move to Meaningful Internet Systems: OTM 2011 Workshops (T. Dillon P. Herrero R. Meersman, ed.)*, Springer-Verlag, vol. 7046, pp. 83-92, 2011.

ceh2011
Ines Čeh, Matej Črepinšek, Tomaž Kosar, Marjan Mernik, Pedro R. Henriques, Maria J. V. Pereira, Daniela da Cruz, Nuno Oliveira. *Tool-Supported Building of DSLs from OWL Ontologies. In INForum'11 --- III Simpósio de Informática: 5th Compilers,*

Programming Languages, Related Technologies and Applications (CoRTA'2011) (Raul Barrosa, Luís Caires, eds.), Universidade de Coimbra, pp. 210-221, 2011.

oliveira2010d — Nuno Oliveria, Maria João Varanda Pereira, Daniela da Cruz, Mario Berón. *Influence of Synchronized Domain Visualizations on Program Comprehension (Working Session)*. *In ICPC'10 - 18th International Conference on Program Comprehension, Braga, Portugal (Giulio Antoniol, Keith Gallagher, Pedro Rangel Henriques, eds.)*, IEEE Computer Society, Conference Publishing Services (CPS), Washington, DC, USA, pp. 192-195, 2010.

oliveira10c — Nuno Oliveira, Nuno Rodrigues, Pedro Rangel Henriques, Luís Soares Barbosa. *A Pattern Language for Architectural Analysis*. *In SBLP 2010 14th Brazilian Symposium in Programming Languages*, SBC --- Brazilian Computer Society (ISSN: 2175-5922), vol. 2, Slavador, Brasil, pp. 167-180, 2010.

oliveira2010b — Nuno Oliveira, Nuno Rodrigues, Pedro Rangel Henriques. *Domain Specific Language for Coordination Patterns*. *In INForum'10 --- II Simpósio de Informática: 4th Compilers, Programming Languages, Related Technologies and Applications (CoRTA'2010) (Luís Barbosa, Miguel P. Correia, eds.)*, Universidade do Minho, Braga, Portugal, pp. 125-136, 2010.

lukovic2010 — Ian Luković, Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, Pedro Rangel Henriques. *An Attribute Grammar Specification of IIS*Case PIM Concepts*. *In Local Proceedings of the Fourteenth East-European Conference on Advances in Databases and Information Systems (ADBIS2010) (CEUR-Workshop Proceedings (ISSN: 1613-0073), ed.)*, Novi Sad, Serbia, pp. 110-124, 2010.

oliveira2009a — Nuno Oliveira, Maria João Varanda Pereira, Pedro Rangel Henriques and Daniela da Cruz. *Visualization of Domain-Specific Program's Behavior*. In Proceedings of VISSOFT 2009, 5th IEEE International Workshop on Visualizing Software for Understanding and Analysis, Edmonton, Alberta, Canada, September, 2009.

oliveira2009b — Nuno Oliveira, Pedro Rangel Henriques, Daniela da Cruz, Maria João Varanda Pereira, Marjan Mernik, Tomaž Kosar and Matej Črepinšek. *Applying Program Comprehension Techniques to Karel Robot Programs*. In Proceedings of the 2nd Workshop on Advances in Programming Languages (WAPL'2009), Mragowo, Poland, October, 2009.

oliveira2009c — Nuno Oliveira, Pedro Rangel Henriques, Daniela da Cruz and Maria João Varanda Pereira. *VisualLISA: Visual Programming Environment for Attribute Grammars Specification*. In Proceedings of the 2nd Workshop on Advances in Programming Languages (WAPL'2009), Mragowo, Poland, October, 2009.

kosar2009 — Tomaž Kosar, Marjan Mernik, Matej Črepinšek, Pedro Rangel Henriques, Daniela da Cruz, Maria João Varanda Pereira and Nuno Oliveira. *Influence of domain-specific notation to program understanding*. In Proceedings of the 2nd Workshop on Advances in Programming Languages (WAPL'2009), Mragowo, Poland, October, 2009.

oliveira2009d — Nuno Oliveira, Maria João Varanda Pereira, Pedro Rangel Henriques and Daniela da Cruz. *Domain Specific Languages: A Theoretical Survey*. In INForum'09 --- Simpósio de Informática: 3rd Compilers, Programming Languages, Related Technologies and Applications (CoRTA'2009), Lisbon, Portugal, September, 2009.

oliveira2009e — Nuno Oliveira, Maria João Varanda Pereira, Pedro Rangel Henriques, Daniela da Cruz and Bastian Cramer. *VisualLISA: A Domain Specific Visual Language for Attribute Grammars*. INForum'09 --- Simpósio de Informática: 3rd Compilers, Programming Languages, Related Technologies and Applications (CoRTA'2009), Lisbon, Portugal, September, 2009.

mernik2009 — Marjan Mernik, Tomaž Kosar, Matej Črepinšek, Pedro Rangel Henriques, Daniela da Cruz, Maria João Varanda Pereira and Nuno Oliveira. *Comparison of XAML and C# Frorms using Cognitive Dimensions Framework*. In INForum'09 --- Simpósio de Informática: 3rd Compilers, Programming Languages, Related Technologies and Applications (CoRTA'2009), Lisbon, Portugal, September, 2009.

oliveira2009f — Nuno Oliveira, Pedro Rangel Henriques, Daniela da Cruz and Maria João Varanda Pereira. *XAGra - An XML dialect for Attribute Grammars*. In INForum'09 --- Simpósio de Informática: 7th XML: Aplicações e Tecnologias Associadas (XATA'2009), Lisbon, Portugal, September, 2009.

cruz2009 — Daniela da Cruz, Nuno Oliveira, Pedro Rangel Henriques. *GraAL - A Grammar Analyzer*. Lisbon, Portugal, September, 2009. Available at: http://inforum.org.pt/INForum2009/programa/

Talks/Tutorials

7 May, 2013 — *Organização e Representação da Informação (Arquivos, Bibliotecas e Museus)*.
Webinar Bad, Departamento de Informática, Universidade do Minho. Summary publication at:
http://www.bad.pt/noticia/2013/11/04/organizacao-e-representacao-da-informacao-ontologias-como-motor-da-web-semantica/

26 October, 2012 — *Organização e Representação da Informação (Arquivos, Bibliotecas e Museus).*
I Encontro de Arquivos Contemporâneos, Faculdade de Ciências Sociais e Humans, Universidade Nova de Lisboa.

15 October, 2012 — *Architectural Reconfiguration of Interacting Services.*
Mondrian workshop, Departamento de Informática, Universidade do Minho.

12 October, 2011 — *The Role of Coordination Analysis in Software Integration Projects.*

	HASLab Seminar, Departamento de Informática, Universidade do Minho.
2 July, 2011	*Patterns for Architectural Analysis and Systems Integration.* CROSS Workshop, *Hotel Falperra, Braga.*
11 February, 2011	*Deriving Grammars from Ontologies – A Brainstorm.* Ontúlia Workshop, *Departamento de Informática, Universidade do Minho.*
29 November, 2010	*Ontologies and Applications.* HERMES Workshop, *Center of Exact Sciences and Technology, Universidade Federal do Maranhão.*
17 September, 2010	*Improving Program Comprehension Tools for Domain-Specific Languages.* JOIN'2010, Departamento de Informática, Universidade do Minho.
9 July, 2010	*Patterns for Architectural Analysis.* Mondrian Workshop, *Departamento de Matemática, Universidade de Aveiro.*
7 January, 2009	*Automatic Generation of Visual Programming Environments - A Workflow.* FAST Seminar, *Informatics Department, Universidade of Minho*