

Andy Kellens

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Software Languages Lab
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EDUCATION

- 1993-1999 High School
Onze-Lieve-Vrouwecollege, Tongeren
Mathematics - sciences A
- 1999-2003 Licentiate computer science (equiv. Master)
Vrije Universiteit Brussel
Graduated with greatest distinction
Thesis: *Using Inductive Logic Programming to derive Software Views*
Promotor: Prof. Dr. Theo D'Hondt
Co-promotor: Dr. Tom Tourwé
- 2003-2007 Doctor of science
Vrije Universiteit Brussel
Graduation date: June 27, 2007
Graduated with greatest distinction
Thesis: *Maintaining causality between design regularities and source code*
Promotor: Prof. Dr. Theo D'Hondt
Co-promotor: Prof. Dr. Kim Mens

LANGUAGE KNOWLEDGE

	Understanding	Speaking	Writing
Dutch (mother tongue)	++	++	++
English	++	++	+
French	+	+/-	+/-

EMPLOYMENT

- Oct 2003 – Dec 2003 Bridging funds provided by the Vrije Universiteit Brussel
- Jan 2004 – Dec 2007 PhD student at the Programming Technology Lab of the Vrije Universiteit Brussel
Scholarship provided by IWT Vlaanderen
Acceptance rate: 150/686 (22 %)
- Jan 2008 – Mar 2008 Post-doctoral researcher
System and Software Engineering Lab (SSEL)
Vrije Universiteit Brussel
Funded by the *AspectLab bis* project
- Apr 2008 – Mar 2011 Post-doctoral researcher
Software Languages Lab
Vrije Universiteit Brussel
Research mandate funded by IWT Vlaanderen
- April 2011 – Post-doctoral researcher
Software Languages Lab
Vrije Universiteit Brussel
Funded by the BELSPO Interuniversity attraction pole
“Modelling, Verification and Evolution of Software” (MoVES)
- Oct 2011 – Sep 2012 Part-time (20%) assistant professor (docent)
Department of Computer Science
Vrije Universiteit Brussel

PUBLICATIONS

Journal papers

- ◇ *Diagnosing and Correcting Design Inconsistencies in Source Code with Logical Abduction*
Sergio Castro, Coen De Roover, Andy Kellens, Angela Lozano, Kim Mens, Theo D'Hondt
Science of Computer Programming: Special Issue on Software Evolution, Adaptability and Variability
Volume 76, Issue 2, p. 1113-1129
December, 2011
Impact factor: 1.459
- ◇ *Enforcing Structural Regularities in Software using IntensiVE*
Johan Brichau, Andy Kellens, Sergio Castro, Theo D'Hondt
Science of Computer Programming: Experimental Software and Toolkits (EST 3)
Volume 75, Issue 4, p. 232-246
April, 2010
Impact factor: 1.269
- ◇ *Application-specific Models and Pointcuts using a Logic Meta Language*
Johan Brichau, Andy Kellens, Kris Gybels, Kim Mens, Robert Hirschfeld, Theo D'Hondt
Computer Languages, Systems & Structures
Volume 34, Issues 2 -3, p. 66-82
July - October, 2008
Impact factor: 0.421
- ◇ *A Survey of Automated Code-Level Aspect Mining Techniques*
Andy Kellens, Kim Mens, Paolo Tonella
Transactions on Aspect-Oriented Software Development IV
LNCS 4640, p. 143-162, 2007
- ◇ *Co-evolving code and design using Intensional Views – A Case Study*
Kim Mens, Andy Kellens, Frederic Pluquet, Roel Wuyts
Computer Languages, Systems & Structures
Volume 32, Issues 2-3, p. 140-156
July-October, 2006
Impact factor: 0.49
- ◇ *Induced Intentional Software Views*
Tom Tourwé, Johan Brichau, Andy Kellens, Kris Gybels
Computer Languages, Systems & Structures Journal
Volume 30, Issues 1-2, p. 35-47
April-July, 2004
Impact factor: 0.49

Conference papers

- ◇ *Mendel: Source Code Recommendation based on a Genetic Metaphor*
Angela Lozano, Andy Kellens, Kim Mens
International Conference on Automated Software Engineering (ASE), 2011, short paper (to appear).
- ◇ *Reasoning over the Evolution of Source Code using Quantified Regular Path Expressions*
Andy Kellens, Coen De Roover, Carlos Noguera, Reinout Stevens, Viviane Jonckers
Working Conference on Reverse Engineering (WCRE), 2011, p. 389-393, 2011.
- ◇ *Program Querying with a SOUL: the Barista tool suite*
Carlos Noguera, Coen De Roover, Andy Kellens, Viviane Jonckers
International Conference on Software Maintenance (ICSM), 2011, tool demo paper.
- ◇ *The SOUL Tool Suite for Querying Programs in Symbiosis with Eclipse*
Coen De Roover, Carlos Noguera, Andy Kellens, Viviane Jonckers
International Conference on the Principles and Practice of Programming in Java (PPPJ), p. 71-80, 2011.

- ◇ *AspectMaps: A Scalable Visualization of Join Point Shadows*
Johan Fabry, Andy Kellens, Stéphane Ducasse
International Conference on Program Comprehension (ICPC), p. 121-130, 2011
Acceptance rate: 23%
- ◇ *Mining Source Code for Structural Regularities*
Angela Lozano, Andy Kellens, Kim Mens, Gabriela Arevalo
Working Conference on Reverse Engineering (WCRE), p. 22-31, 2010
Acceptance rate: 31%
- ◇ *Verifying the design of an outsourced COBOL system with IntensiVE*
Andy Kellens, Carlos Noguera, Theo D'Hondt, Luc Jorissen, Bart Van Passel
International Conference on Software Maintenance (Industry Track) (ICSM), 2010
Acceptance rate: 40%
- ◇ *Co-evolving Annotations and Source Code through Smart Annotations*
Andy Kellens, Carlos Noguera, Kris De Schutter, Coen De Roover, Theo D'Hondt
14th European Conference on Software Maintenance and Re-engineering (CSMR), p. 119-128, 2010
Acceptance rate: 26%
- ◇ *Cognac: a framework for documenting and verifying the design of Cobol systems*
Andy Kellens, Kris De Schutter, Theo D'Hondt, Luc Jorissen, Bart Van Passel
13th European Conference on Software Maintenance and Re-engineering (CSMR), p. 199-208, 2009
Acceptance rate: 30%
- ◇ *Pitfalls of Aspect Mining*
Kim Mens, Andy Kellens, Jens Krinke
15th Working Conference on Reverse Engineering (WCRE), p. 113-122, 2008
Acceptance rate: 29%
- ◇ *Experiences in modularizing business rules into aspects*
Andy Kellens, Kris De Schutter, Theo D'Hondt, Viviane Jonckers, Hans Doggen
24th IEEE Conference on Software Maintenance (ICSM), p. 448-451, 2008.
- ◇ *Application-Specific Models and Pointcuts using a Logic Meta Language*
Johan Brichau, Andy Kellens, Kris Gybels, Kim Mens, Robert Hirschfeld, Theo D'Hondt
14th International Smalltalk conference
Lecture Notes in Computer Science Vol. 4406, p.1-22, Springer Verlag , 2007
Acceptance rate: 67%
- ◇ *Managing the Evolution of Aspect-Oriented Software with Model-based Pointcuts*
Andy Kellens, Kim Mens, Johan Brichau, Kris Gybels
20th European Conference on Object-Oriented Programming (ECOOP)
Lecture Notes in Computer Science Vol. 4067, p. 501-525, Springer Verlag, 2006
Acceptance rate: 21/160 (13%)
- ◇ *IntensiVE, a toolsuite for documenting and testing structural source-code regularities*
Kim Mens, Andy Kellens
10th Conference on Software Maintenance and Re-engineering, p.239-248, 2006
Acceptance rate: 27+4/65 (42%)
- ◇ *Automated Pattern-Based Pointcut Generation*
Mathieu Braem, Kris Gybels, Andy Kellens, Wim Vanderperren
Software Composition 2006
Lecture Notes in Computer Science 4089, p. 66-81, Springer-Verlag, April 2006
Acceptance rate: 36%
- ◇ *Towards a Framework for Testing Structural Source-Code Regularities*
Kim Mens, Andy Kellens
21st IEEE International Conference on Software Maintenance (ICSM), p. 679-682, 2005
Acceptance rate: 55+25/180 (31%)
- ◇ *The Intensional View Environment*
Kim Mens, Andy Kellens, Frederic Pluquet, Roel Wuyts
21st IEEE International Conference on Software Maintenance (ICSM)

Industrial and Tool Volume, p.81-84, 2005
Acceptance rate: 55+25/180 (31%)

Published workshop reports

- ◇ *Proceedings of the Practices of Linking aspect technology and evolution workshop (PLATE '09)*
Iris Groher, Andy Kellens, Christa Schwanninger, Bram Adams, Uwe Hohenstein, Ademar Aguiar, Eddy Truyen
ACM Digital Library, ISBN: 978-1-60558-453-9, 2009
- ◇ *Proceedings of the fourth workshop on Linking aspect technology and evolution (LATE '08)*
Andy Kellens, Marius Marin
ACM Digital Library, ISBN: 978-1-60558-147-7, 2008
- ◇ *Proceedings of the third workshop on Linking aspect technology and evolution (LATE '07)*
Tom Tourwé, Andy Kellens, Mariano Ceccato, David Shepherd, Marius Marin
ACM Digital Library, ISBN: 1-59593-655-4, 2007

Workshop papers

- ◇ *Generation and composition of corrective actions to code design problems with Heal*
Sergio Castro, Andy Kellens, Coen De Roover, Kim Mens
9th BELgian-NETHERlands EVOLution Workshop (BENEVOL), Lille, 2010.
- ◇ *MEntoR: Mining Entities to Rules*
Angela Lozano, Andy Kellens, Kim Mens, Gabriela Arevalo
9th BELgian-NETHERlands EVOLution Workshop (BENEVOL), Lille, 2010.
- ◇ *Tackling Pointcut Fragility with Dynamic Annotations*
Carlos Noguera, Andy Kellens, Dirk Deridder, Theo D'Hondt
Workshop on Reflection, AOP and Meta-Data for Software Evolution (RAM-SE), Maribor Slovenia, 2010.
- ◇ *Supporting Incremental Changes in Large Models*
Jannik Laval, Simon Denier, Stephane Ducasse, Andy Kellens
International Workshop on Smalltalk Technologies (IWST), Brest, 2009.
- ◇ *Experiments with Pro-active Declarative Meta-Programming*
Veronica Uquillas Gomez, Andy Kellens, Kris Gybels, Theo D'Hondt
International Workshop on Smalltalk Technologies (IWST), Brest, 2009.
- ◇ *Time Warp, an Approach for Reasoning over System Histories*
Veronica Uquillas Gomez, Andy Kellens, Johan Brichau, Theo D'Hondt
Joint ERCIM Workshop on Software Evolution (EVOL) and International Workshop on Principles of Software Evolution, Amsterdam, The Netherlands, 2009.
ACM Digital Library, ISBN: 978-60558-678-6/09/08, p. 79-88
- ◇ *Verifying the design of a Cobol system using Cobol*
Andy Kellens, Kris De Schutter, Theo D'Hondt
7th BELgian-NETHERlands eVOLution workshop (BENEVOL), Eindhoven, The Netherlands, 2008
- ◇ *Enforcing Structural Regularities in Software using IntensiVE*
Johan Brichau, Andy Kellens, Sergio Castro, Theo D'Hondt
International Workshop on Advanced Software Development Tools and Techniques (WASDeTT), 2008
- ◇ *Mining Source Code for Design Regularities*
Kim Mens, Andy Kellens
Working Session on Industrial Realities of Program Comprehension (IRPC 2008)
- ◇ *Example-based Program Querying*
Andy Kellens, Johan Brichau, Coen De Roover
Working Session on Query Technologies and Applications for Program Comprehension (QTAPC 2008)
- ◇ *Managing Software Dependencies using Design Structure Matrices*
Matthias Stevens, Andy Kellens, Johan Brichau, Theo D'Hondt
6th BELgian-NETHERlands eVOLution workshop (BENEVOL), Namur, Belgium, 2007

- ◇ *Inducing evolution-robust pointcuts*
Mathieu Braem, Kris Gybels, Andy Kellens, Wim Vanderperren
ERCIM Evolution Workshop, 2006
- ◇ *A Model-Driven Pointcut Language for More Robust Pointcuts*
Andy Kellens, Kim Mens, Johan Brichau, Kris Gybels
Software Engineering Properties of Languages for Aspect Technology (SPLAT), 2006
- ◇ *Issues in Performing and Automating the ‘Extract Method Calls’ Refactoring*
Andy Kellens, Kris Gybels
Software Engineering Properties of Languages and Aspect Technologies (SPLAT), 2005
- ◇ *Experiences with Identifying Aspects in Smalltalk Using ‘Unique Methods’*
Kris Gybels, Andy Kellens
Linking Aspect Technology and Evolution (LATE), 2005
- ◇ *Inductively Generated Pointcuts to Support Refactoring to Aspects*
Tom Tourwé, Andy Kellens, Wim Vanderperren, Frederik Vannieuwenhuysse
Software engineering Properties of Languages for Aspect Technologies (SPLAT), 2004
- ◇ *An Experiment in Using Inductive Logic Programming to Uncover Pointcuts*
Kris Gybels, Andy Kellens
First European Interactive Workshop on Aspects in Software (EIWAS), 2004

Demonstrations

- ◇ *Enforcing Structural Regularities in Source Code using IntensiVE*
Johan Brichau, Andy Kellens, Kim Mens
23rd IEEE/ACM International Conference on Automated Software Engineering (ASE), 2008, extended abstract in proceedings p. 471-472.
- ◇ *The IntensiVE tool suite*
Johan Brichau, Andy Kellens, Kim Mens, Sergio Castro
15th Working Conference on Reverse Engineering (WCRE), 2008.
- ◇ *Model-based Pointcuts*
Andy Kellens, Johan Brichau, Kim Mens, Kris Gybels, Theo D’Hondt
Conference on Aspect-Oriented Software Development (AOSD), 2006.
- ◇ *IntensiVE*
Kim Mens, Andy Kellens
19th European Conference on Object Oriented Programming (ECOOP), 2005
- ◇ *IntensiVE, a framework for testing structural regularities*
Kim Mens, Andy Kellens
21st IEEE International Conference on Software Maintenance (ICSM), 2005

PROJECTS AND FUNDING

- ◇ *Advanced support for software development and evolution using learning techniques.*
Personal doctoral scholarship provided by IWT Vlaanderen
January 2004 – December 2007
- ◇ Co-author of the *AspectLab* project.
SBO Project funded by IWT Vlaanderen
October 2004 – August 2009
Total amount of funding: 2.856.110EUR (432 person months)
- ◇ *Advanced support for source-code regularities*
Post-doctoral research mandate funded by IWT Vlaanderen
April 2008 – March 2011
Total amount of funding: 148.000EUR
- ◇ *MinDeR: Mining Source Code for Documenting and Verifying Design Regularities*
Joint research project within the framework of the cooperation SECyT (Argentina) and FWO-Flanders
Project provides funding for research exchanges between Belgium and Argentina.

SERVICE TO UNIVERSITY

- ◇ Member of the departmental council of the Department of Computer Science, Vrije Universiteit Brussel, 2008 – ...
- ◇ Substitute member of the Board of Directors, Vrije Universiteit Brussel, 2008 – 2009

ORGANISATION OF CONFERENCES/WORKSHOPS

- ◇ 1st Linking Aspect Technology and Evolution (LATE) workshop, collocated with AOSD, Chicago, USA, March 14, 2005.
- ◇ Part of the local organisation team of the 13th International Smalltalk Conference, Brussels, Belgium, 2005.
- ◇ 2nd Linking Aspect Technology and Evolution (LATE) workshop, collocated with AOSD, Bonn, Germany, March 20, 2006.
- ◇ 3rd Linking Aspect Technology and Evolution (LATE) workshop, collocated with AOSD, Vancouver, Canada, March 12, 2007.
- ◇ Student volunteer co-chair and part of the local organization team of the International conference on aspect-oriented software development (AOSD), Brussels, Belgium, 2008.
- ◇ 4th International Linking Aspect Technology and Evolution (LATE) workshop, collocated with AOSD, Brussels, Belgium, April 1, 2008.
- ◇ Demonstrations co-chair. International Conference on aspect-oriented software development (AOSD), Charlottesville, Virginia, USA, 2009.
- ◇ Practices of Linking Aspect Technology and Evolution (LATE) workshop, collocated with AOSD, Charlottesville, Virginia, USA, March 2, 2009.
- ◇ 2nd Seminar on Advanced Tools & Techniques for Software Evolution (SATToSE), Baie de Somme, France.
- ◇ Object Oriented Programming Languages and Systems (OOPS) Track at the 25th ACM Symposium of Applied Computing (SAC), 2010.
- ◇ Object Oriented Programming Languages and Systems (OOPS) Track at the 26th ACM Symposium of Applied Computing (SAC), 2011.
- ◇ Object Oriented Programming Languages and Systems (OOPS) Track at the 27th ACM Symposium of Applied Computing (SAC), 2012.

RESEARCH VISITS/EVENTS

- 1 – 3 Nov 2004 Visit to the Software Composition Group, University of Bern, Switzerland
Goal: integration of the declarative meta programming language SOUL with the MOOSE software model.
Collaboration with Tudor Girba.
- 7 – 12 Jun 2006 Visit to LIFL, University of Lille, France
Goal: implementation of a model-based pointcut language using declarative meta programming.
Collaboration with Johan Brichau and Kim Mens.
- 26 – 29 Jul 2006 Dagstuhl Seminar 06302 on Aspects for Legacy Applications, Dagstuhl, Germany.
On invitation. Organizers: S. Clarke, L. Moonen, G. Ramalingam.
- 3 – 9 Feb 2008 Seminar on Advanced Tools & Techniques for Software Evolution (SATToSE).
On invitation. Organizers: K. Mens, T. Mens, J. Brichau.
- 7 – 24 Nov 2008 Visit to Pleiad lab, Universidad de Chile, Santiago, Chile.
Goal: Visualisation of Aspect-Oriented Programs (AspectMaps)
Collaboration with Johan Fabry.
- 8 – 22 Jul 2009 Research stay (in the context of the MinDeR project) at the University of La Plata, Argentina.
Goal: Mining of structural regularities using Formal Concept Analysis.
Collaboration with Gabriela Arevalo.
- 4 – 18 Nov 2010 Research stay (in the context of the MinDeR project) at the University of La Plata, Argentina.
Goal: A coding assistant based on association rule mining.
Collaboration with Gabriela Arevalo.

REVIEWING

- ◇ Co-reviewer for ECOOP 2005, 2006, 2007, AOSD 2008, 2010 and Splash 2010.
- ◇ Program committee member of the Astranet Aspect Analysis Workshop (AAA), 2006.
- ◇ Program committee member of the Latin-American Workshop on Aspects (LA-WASP), 2007.
- ◇ Program committee member of the Dynamic Languages Symposium (DLS), 2008.
- ◇ Program committee member of the International Workshop on Advanced Software Development Tools and Techniques (WASDeTT), 2008.
- ◇ Reviewer for Elsevier's Science of Computer Programming journal (special issue on Experimental Software Toolkits), 2009.
- ◇ Program committee member of EuroDocInfo, 2009.
- ◇ Program committee member of Software Composition (SC), 2009.
- ◇ Program committee member of the joint 10th International Workshop on Principles of Software Evolution and the 5th ERCIM Workshop on Software Evolution, 2009.
- ◇ Program committee member of the FAMOOSr workshop, 2009.
- ◇ Program committee member of the Programming Languages (PL) Track at the 25th ACM Symposium of Applied Computing (SAC), 2010.
- ◇ Program committee member of Software Composition (SC), 2010.
- ◇ Reviewer for Elsevier's Science of Computer Programming journal (special issue on Software Evolution, Adaptability and Variability), 2010.
- ◇ Program committee member of the joint International ERCIM Workshop on Software Evolution and Evolvability (EVOL) and International Workshop on Principles of Software Evolution (IWPSE), 2010.
- ◇ Program committee member of the International Workshop on Smalltalk Technologies (IWST), 2010.
- ◇ Program committee member of the Third International Workshop on Academic Software Development Tools (WASDeTT-3), 2010.
- ◇ Reviewer for Springer's Empirical Software Engineering Journal.
- ◇ Program committee member of the FAMOOSr workshop, 2010.
- ◇ Program committee member of the Research Track of the Smalltalks conference, 2010.
- ◇ Program committee member of the Tool Demonstrations track at the 26th IEEE International Conference on Software Maintenance (ICSM'10).
- ◇ Program committee member of the Belgian-Netherlands Evolution Workshop (BENEVOL), 2010.
- ◇ Program committee member of the Programming Languages (PL) Track at the 26th ACM Symposium of Applied Computing (SAC), 2011.
- ◇ Program committee member of the 9th International Conference on Creating, Connecting and Collaborating through Computing (C5), 2011.
- ◇ Program committee member of the 27th International Conference on Software Maintenance (ICSM), 2011.
- ◇ Guest editor (together with Davide Ancona) for Elsevier's Science of Computer Programming: special issue for OOPS 2010.
- ◇ Program committee member of the Fourth International Workshop on Academic Software Development Tools (WASDeTT), 2011.
- ◇ Program committee member of the joint International ERCIM Workshop on Software Evolution and Evolvability (EVOL) and International Workshop on Principles of Software Evolution (IWPSE), 2011.
- ◇ Reviewer for Springer's Software and Systems Modeling Journal, 2011.
- ◇ Reviewer for Elsevier's Science of Computer Programming journal (special issue on Software Evolution, Adaptability and Maintenance), 2011.
- ◇ Program chair of the research track of the 5th International Conference on Smalltalk Technologies, 2011.
- ◇ Program committee member of the demo track of the European Conference on Software Maintenance and Re-engineering (CSMR), 2012.

- ◇ Program committee member of the 10th International Conference on Creating, Connecting and Collaborating through Computing (C5), 2012.
- ◇ Program committee member of the 28th International Conference on Software Maintenance (ICSM), 2012.
- ◇ Program committee member of the 20th International Conference on Program Comprehension (ICPC), 2012.

AWARDS/ACCREDITATION

- ◇ Third Prize in the competition for the Technology Innovation Awards 2005 of the European Smalltalk User Group for the development of IntensiVE (the Intensional Views Environment).
- ◇ PhD thesis titled “Maintaining causality between design regularities and source code” has been accredited by the European Network of Excellence on Aspect-Oriented Software Development (AOSD-EU).

TEACHING EXPERIENCE

- ◇ Algorithms and Datastructures II
Teaching Assistant
Vrije Universiteit Brussel
Academic years: 2004–2005, 2005–2006, 2006–2007, 2007–2008
- ◇ Research topics in AOSD
Guest lecture about aspect mining
Vrije Universiteit Brussel
Academic years: 2005–2006, 2006–2007
- ◇ Software project
Teaching assistant
Vrije Universiteit Brussel
Academic years: 2007–2008, 2008–2009, 2009–2010, 2010–2011
- ◇ Principles of Object-oriented Programming
Lecturer
Vrije Universiteit Brussel
Academic years: 2008–2009, 2009–2010, 2010–2011
- ◇ Summer School on Programming Languages (PL 2008)
Lecturer
Punta Arenas, Chile
November, 11-12 2008

THESIS GUIDANCE

- ◇ Roberto Riquilme Torres, Master thesis, 2004 (co-guidance with Kim Mens)
- ◇ Jens Nicolay, Licentiate thesis, 2005 (co-guidance with Johan Brichau)
- ◇ Mathieu Braem, Licentiate thesis, 2005 (co-guidance with Kris Gybels)
- ◇ Elliot Gossieaux Licentiate thesis, 2006
- ◇ Iyad Albayouk and Abdelbaset Almasri, Master thesis, 2006 (co-guidance with Kris Gybels)
- ◇ Karlien Mollemans, Licentiate thesis, 2007 (co-guidance with Coen De Roover)
- ◇ Matthias Stevens, Licentiate thesis, 2007 (co-guidance with Johan Brichau)
- ◇ Veronica Uquillas Gomez, Master thesis, 2008 (co-guidance with Kris Gybels)
- ◇ Reinout Stevens, Master thesis, 2010-2011 (co-guidance with Coen De Roover)
- ◇ Emmanuel De Wilde, Master thesis, 2011-2012 (co-guidance with Carlos Noguera)
- ◇ Jonathan Poedts, Master thesis, 2011-2012 (co-guidance with Carlos Noguera)
- ◇ Reinout Stevens, PhD student, 2011-... (Promotor: Viviane Jonckers; co-guidance with Coen De Roover)
- ◇ Veronica Uquillas, PhD student, 2008-... (Promotors: Theo D’Hondt and Stéphane Ducasse)

TECHNOLOGICAL SKILLS

Software engineering. Strong expertise in software architecture and design, component-based software, design patterns, object-oriented software development, aspect-oriented software development, software quality, source-code quality, source-code analysis. Thorough knowledge of unit testing (SUnit, JUnit), development processes (Agile, waterfall, iterative).

Practical experience. Smalltalk, Java, C(++), Prolog, Scheme, AspectJ, Flex, Bison, HTML, XML, CSS, JavaScript, Seaside, JQuery, XML-RPC, L^AT_EX.

Passive knowledge. Hibernate, Spring, Haskell, Python, Ruby, C#, Eiffel, LISP, CLOS, COBOL.

Operating systems. Mac OS X, Mac OS X Server, Microsoft Windows (95, 98, XP), Linux (Ubuntu, SUSE, Fedora, Slackware).

Other Software. Microsoft Office, Rational Rose, Eclipse, Code Warrior.