

ALEXANDRA SILVA
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Institute for Computing and Information Sciences
Section Intelligent Systems, Faculty of Science
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Year of birth : 1984
Citizenship: Portuguese
Languages : Portuguese (Native), English (Fluent), Dutch (Fluent), French (Fluent), Spanish (Basic)

Education

- PhD in Computer Science, *cum laude* **October 2006 – December 2010**
Financed by a personal grant from the Portuguese science foundation (FCT)
Degree awarded by the Radboud University Nijmegen
Research carried out in the Dutch National Research center for Mathematics and Computer Science (CWI)
Thesis title: *Kleene Coalgebra*
Supervisors: Jan Rutten and Marcello Bonsangue
- *Licenciatura* in Mathematics and Computer Science **September 2001 – May 2006**
Universidade do Minho, Braga, Portugal
Final thesis title: *Strong Types for Relational Data Stored in Databases or Spreadsheets*
Final Classification: 19/20 (best average grade among all degrees in the University of Minho)
- Socrates/Erasmus student **September 2003 – Feb 2004**
University of Bristol, United Kingdom
Main subjects: Group theory, Data analysis and Computer Graphics
- High School **September 1995 – Jul 2001**
Escola Secundária Fernão de Magalhães, Chaves, Portugal
Main subjects: Mathematics, Chemistry, Physics and Geometry
Final Classification: 19/20

Employment

- Assistant professor, Radboud University Nijmegen, The Netherlands. **September 2011 – present**
Tenured since September 2012.
- Guest researcher at CWI, The Netherlands. **September 2011 – present**
- Guest researcher at HASLab / INESC TEC, Braga, Portugal. **September 2011 – present**
- Post-doc at CWI, The Netherlands. **September 2010 – August 2011**
- PhD Student at CWI, The Netherlands. **October 2006 – September 2010**
- Teaching assistant at University of Minho **March 2006 – June 2006**
- Researcher at Formal Methods Group, University of Minho. **May 2005 – February 2006**
- Teaching assistant at University of Minho **October 2004 – June 2005**
- Intern at CERN, the European Organization for Nuclear Research **July 2004 – September 2004**
- Junior Researcher at Calouste Gulbenkian Foundation **October 2002 – August 2003**

Visiting positions

- Visiting scholar, Indiana University, Blomington, IN, USA. **July 2015**
- Invited researcher, Oxford University, United Kingdom. **April – May 2015**
- Invited professor, École Normale Supérieure de Lyon (Équipe Plume), France. **January 2015**
- Invited professor, École Normale Supérieure de Lyon (Équipe Plume), France. **Feb. – March 2014**
- Visiting scholar, Indiana University, Blomington, IN, USA. **August 2013**
- Invited professor, École Normale Supérieure de Lyon (Équipe Plume), France. **April – May 2013**
- Visiting researcher, Cornell University, Ithaca, NY, USA. **March – August 2011**
- Visiting researcher, Centrum Wiskunde & Informatica, The Netherlands **June – September 2006**

Research group

- **PhD students**
 1. Joshua Moerman, 2014 – (promotor: Frits Vaandrager, co-promotor: Bas Terwijn)
 2. Bram Westerbaan, 2013 – 2014 (promotors: Jan Rutten and Herman Geuvers).
 3. Georgiana Caltai, PhD 2013 (promotors: Jan Rutten and Anna Ingolfsdottir; co-promotor: Marcello Bonsangue).
 4. Young-Joo Moon, PhD 2011 (promotor: Farhad Arbad; co-promotor: Erik de Vink).
- **Postdocs**
 1. Daniela Petrisan (2014 – present).
 2. Matteo Sammartino (2015 – present).
- **Visitors**
 1. Konstantinos Mamouras, Cornell University, 2014 (one semester visit).
 2. Dexter Kozen, Cornell University, 2014 (one semester visit).
 3. Georgiana Caltai, Reykjavik University, 2013 (three-month visit).
 4. Louis Parlant, ENS Lyon, 2013 (three-month visit).
 5. Jean-Baptiste Jeannin, Cornell University, 2013 (two-week visit).
 6. Tomaz Brengos, Warsaw University of Technology, 2013 (two-week visit).
 7. Ricardo Oliveira, Minho University, 2013 (one-month visit).
 8. Georgiana Caltai, Reykjavik University, 2012 (three-month visit).
 9. Dexter Kozen, Cornell University, 2012 (two-month visit).

For short-term (less than two-week) visitors, see below.

Professional Activities and Service

- **Invited Speaker**
 1. WoLLIC 2015, 22nd Workshop on Logic, Language, Information and Computation, 2015.
 2. TOPDRIM 2015, International School and Conference on Topology and Data, 2015.
 3. CONCUR 2015, 26th Conference on Concurrency Theory, 2015.
 4. TRENDS 2014, organized by IFIP WG 1.8 on Concurrency Theory, 2014.
 5. Thirtieth Conference on the Mathematical Foundations of Programming Semantics, 2014.

6. Workshop in honour of Prakash Panangaden, 2014.
 7. 11th Asian Symposium on Programming Languages and Systems, 2013.
 8. 9th workshop on Fixed points in Computer Science, 2013.
 9. Tenth International Tbilisi Symposium on Language, Logic and Computation, 2013.
 10. Doctoral Symposium, University of Porto, 2011.
- **Editorial boards and executive committees**
 1. ACM SIGLog executive committee member.
 2. Editorial board of the Journal of Logical and Algebraic Methods in Programming, Elsevier.
 - **Conference program committee chair**
 1. Thirtieth Conference on the Mathematical Foundations of Programming Semantics, (MFPS 2014; co-chairs: Bart Jacobs and Sam Staton)
 2. 5th Interaction and Concurrency Experience (ICE 2012; co-chair: Marco Carbone).
 3. 4th Interaction and Concurrency Experience (ICE 2011; co-chair: Simon Bliudze).
 - **Conference program committee member**
 1. 31st Annual ACM/IEEE Symposium on Logic In Computer Science (LICS 2016).
 2. 43rd ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL 2016).
 3. International Workshop on Fixed Points in Computer Science (FICS 2015).
 4. 24th EACSL Annual Conference on Computer Science Logic (CSL 2015).
 5. 12th International Colloquium on Theoretical Aspects of Computing (ICTAC 2015).
 6. 11th International Workshop on Developments in Computational Models (DCM 2015).
 7. 8th Interaction and Concurrency Experience (ICE 2015).
 8. 6th Conference on Algebra and Coalgebra in Computer Science (CALCO 2015).
 9. 31st Conference on the Mathematical Foundations of Programming Semantics (MFPS 2015).
 10. 11th International Tbilisi Symposium on Language, Logic and Computation (TbiLLC 2015).
 11. 30th Annual ACM/IEEE Symposium on Logic In Computer Science (LICS 2015).
 12. International School and Conference on Topology and Data (TOPDRIM 2015).
 13. 22nd Workshop on Logic, Language, Information and Computation (WoLLIC 2015).
 14. 8th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS 2015).
 15. 12th Asian Symposium on Programming Languages and Systems (APLAS 2014).
 16. 30th Conference on Mathematical Foundations of Programming Semantics (MFPS 2014, co-chair).
 17. 7th Interaction and Concurrency Experience (ICE 2014).
 18. Twenty-Eighth Annual ACM/IEEE Symposium on Logic In Computer Science (LICS 2013).
 19. 5th Conference on Algebra and Coalgebra in Computer Science (CALCO 2013).
 20. CALCO-Tools 2013.
 21. 6th Interaction and Concurrency Experience (ICE 2013).
 22. 5th Interaction and Concurrency Experience (ICE 2012, co-chair).
 23. 11th International Workshop on Coalgebraic Methods in Computer Science (CMCS 2012).
 24. Doctoral Symposium affiliated with the 18th International Symposium on Fundamentals of Computation Theory (DS-FCT 2011).

25. 4th Interaction and Concurrency Experience (ICE 2011, co-chair).
26. 8th International Conference on Quantitative Evaluation of SysTems (Qest 2011).
27. 3rd Interaction and Concurrency Experience (ICE 2010).
28. 10th International Workshop on Coalgebraic Methods in Computer Science (CMCS 2010).

- **Organizing committees**

1. 31st Conference on Mathematical Foundations of Programming Semantics and 6th Conference on Algebra and Coalgebra in Computer Science and (MFPS and Calco 2015, co-chair: Bart Jacobs).
2. Bellairs workshop on duality and probabilistic systems (March 2014).
3. Publicity chair of CMCS and Calco (2012 – 2015).
4. Special MFPS/LICS'13 session on coalgebra.
5. 5th Interaction and Concurrency Experience (ICE 2012).
6. Workshop on Logic and Program Semantics, dedicated to Dexter Kozen on the occasion of his 60th birthday (DK 2012)
7. 4th Interaction and Concurrency Experience (ICE 2011).
8. 5th International Federated Conferences on Distributed Computing Techniques (Discotec 2010).
9. 3rd Interaction and Concurrency Experience (ICE 2010).
10. 10th International Workshop on Coalgebraic Methods in Computer Science (CMCS 2010, co-chair: Milad Niqui).
11. Coalgebra day 2009.
12. Coinduction, Interaction and Composition (CIC 2008).

- **Journal referee**

1. American Mathematical Reviews.
2. Information and Computation, Elsevier.
3. International Journal of Foundations of Computer Science, World Scientific Publishing.
4. Journal of Functional Programming, Cambridge Journals.
5. Journal of Logic and Algebraic Methods in Programming, Elsevier.
6. Logical Methods in Computer Science.
7. Mathematical Structures in Computer Science, Cambridge Journals.
8. Science of Computer Programming, Elsevier.
9. Theoretical Computer Science, Elsevier.

- **Conference referee** ICALP 2015, CADE 2015, MFCS 2014, ICALP 2014, PP 2014, LICS 2014, FOS-SACS 2014, POPL 2013, LPAR-19, FSTTCS 2013, ICFP 2013, CALCO 2013, ICE 2013, CONCUR 2013, ICALP 2013, FoSSaCS 2013, QAPL 2013, Böhm festschrift, IFIP-TCS 2012, CMCS 2012, ICE 2012, FoSSaCS 2012, FSEN 2011, POPL 2011, QAPL 2011, ICE 2011, FACS 2010, CONCUR 2010, ICE 2010, CMCS 2010, LICS 2010, FICS 2009, SBLP 2009, RTA 2009, MFPS 2009, FSEN 2009, DSL 2008, AMAST 2008, CMCS 2008, Calco-jnr 2007.

- **Grant proposal referee**

1. Agence Nationale de Recherche (ANR), France.
2. European Research Council (ERC).

- **PhD examiner**

1. Dmitriy Traytel, Technical University Munich, September 2015.
2. Ken Madlener, Radboud University Nijmegen, October 2014.

3. Dimiter Milushev, Leuven University (Belgium), May 2013.
4. Faranak Heidarian, Radboud University Nijmegen, July 2012.
5. Stephanie Kemper, University of Leiden, December 2011.

- **Master thesis examiner**

1. Ignas Vysniauskas, University of Amsterdam, October 2014.
2. Ricardo Jorge Pratas Guilherme, Lisbon University, November 2014.

- **Invited seminar speaker** OASIS seminar, Computer Laboratory, Oxford, May 2015; Formal methods group, SRI International, April 2015; Plume team *groupe de travail*, ENS Lyon, January 2015; A|C seminar, University of Amsterdam, October 2014; Brouwer seminar, Radboud University Nijmegen, January 2014; TCS seminar, VU Amsterdam, January 2014; Logic Seminar, Indiana University, Bloomington, August 2013; MPS seminar, University of Strathclyde; MBSD seminar, Radboud University Nijmegen, June 2013; Utrecht University, June 2013; Spades seminar, INRIA Grenoble, May 2013; Chocla meeting, ENS Lyon, May 2013; Formal methods group, Technical University Eindhoven, April 2013; Technical University Braunschweig, February 2013; Brouwer seminar, Radboud University Nijmegen, October 2012; University Leicester, November 2012; Imperial College London, August 2012; Erlangen University, May 2012; University of Porto, May 2012; ACG seminar, CWI, November 2011; Minho University (Math dep.), October 2011; Reykjavik University, June 2011; Cornell University, April 2011; LiX, École Polytechnique, March 2011; Salzburg University, January 2011; IPA Herfstdagen, Veldhoven, November 2010; Technical University Braunschweig, August 2010; LiX, École Polytechnique, April 2010; University of Amsterdam, March 2010; LiX, École Polytechnique, March 2010; Arco meeting, Eindhoven University of Technology, November 2009; CoCoCo meeting, CWI, October 2009; University of Duisburg-Essen, July 2009; Arco meeting, University of Iasi, May 2009; A|C seminar, University of Amsterdam, January 2009; Arco meeting, CWI, January 2009; A|C seminar, University of Amsterdam, September 2008; Coalgebra day, Radboud University of Nijmegen, March 2008; A|C seminar, University of Amsterdam, May 2007; Coalgebra day, Radboud University of Nijmegen, October 2006; ACG seminar, CWI, October 2006; Pure Cafe, Minho University, December 2005; ACG seminar, CWI, April 2005.

For a complete list of my talks see <http://www.alexandrasilva.org/#/talks.html>.

University Activities

- **Teaching**

1. *Algorithms and data structures*, 2014.
2. *Languages and automata*, 2012, 2013, 2014.
3. *Coalgebra*, 2012, 2014.
4. *Coalgebra - an introduction using automata and languages*, IPA Formal methods course, with Jurriaan Rot, 2013.
5. *Wat is Informatica?*, 2013, 2014.
6. *Complexity*, 2012, 2013, 2014.
7. *Linear algebra* (tutorials only), 2012, 2013.
8. *Research Seminar*, 2012, 2013, 2014.
9. *Program correctness*, Leiden University, 2008 and 2009.
10. *Computer Architecture* (tutorials only), Minho University, 2004 and 2005.
11. *Programming in C* (tutorials only), Minho University, 2005.
12. *Algorithms and complexity* (evaluation of practical assignments), Minho University, 2005.

- **Internship supervision (master students)**

1. Clovis Eberhart, ENS Cachan, 2014.

2. Louis Parlant, ENS Lyon, 2013.
3. Ricardo Oliveira, University of Minho, 2012.
4. Georgiana Caltais, Iasi University, 2010.
5. Eugen Goriac, Iasi University, 2010.

- **Bachelor thesis supervision**

1. Sanne Boumans, 2014.
2. Martin Huyben, 2014.
3. Gerco van Heerdt, 2014.
4. Tom Sanders, 2013.
5. Judith van Stegeren, 2013.
6. Peter Maandag, 2012.
7. Tessa Matser, 2012.

- **Hiring committees**

1. Hiring committee Assistant Professor Network Security (ICIS, RU, 2014)
2. Tenure-track review committee Maarten Sollenfeld (Math department, RU, 2014)

- **Administration/Other**

1. Board member Radboud Honours Academy (2014 – present).
2. Academic lecture for first year Computer Science students (2013 and 2014).
3. Board member Halkes Women Faculty Network Nijmegen (2013 – present).
4. Radboud Honors Academy mentor (2013 – 2014).
5. Secretary of the committee *Bindend studieadvies (BSA)* for the Bachelor in Computer Science (RU) (2012).
6. Part of the team maintaining the [Studeren Informatica in Nijmegen](#) webpage (2011 – present).
7. Docent-mentor of 10 bachelor students (2012-2015).
8. Coordination (joint with Bas Terwijn) of the Master on Foundations of Computer Science (2012-present).
9. Co-organizer (together with J. Urban) of the Brouwer seminar (January 2012 – January 2014).
10. Site representative of the bi-monthly seminar COIN (Coalgebra in the Netherlands), 2011 – present.
11. Co-organizer (together with F.S. de Boer) of the bi-weekly Amsterdam Coordination Group seminar (February 2008 - February 2011).

- **Valorization activities**

1. Masterclass on *Theater techniques for scientists* (January - March 2013).
2. One year *Mentoring & coaching* programme, part of the university framework *Charter Talent naar de Top* (mentor: Prof. Annalisa Fasolino, July 2012 – July 2013).

Research grants

- | | |
|--|------------------------------------|
| 1. Faculty of Science, Radboud University, PhD grant | January 2015- December 2018 |
| On the quality of hypotheses in active automata learning. ≈ 250.000 euros, to finance one PhD student. Faculty internal round, 1 out of 7 was granted. | |
| 2. NWO Veni grant | January 2014- December 2017 |

CoGrow: Coalgebraic growth – uniform studies of form emergence.
≈ 250.000 euros, to finance my salary for 3 years, and two workshops.

3. NWO project grant **January 2013- December 2016**
Practical Coinduction.
≈ 250.000 euros, to finance one PhD student, and extended visits to Cornell University, USA.
4. FCT project grant **January 2012- December 2014**
QAIS: Quantitative analysis of Systems, PTDC/EIA-CCO/122240/2010.
≈ 106.000 euros, to finance part of a PhD grant, workshop organization and trips to conferences.
5. Post-doc grant **April 2011-March 2017**
Personal grant for Post-doc studentship (FCT grant SFRH/BPD/71956/2010).
6 year 1.0FTE post-doc position, declined.
Part of this grant has been/will be used for my extended visits to Prof. Dexter Kozen (Cornell, USA) and Dr. Luís Barbosa (Minho, Portugal).
6. Service Oriented Computing: foundations and calculi. **October 2006-September 2010**
Personal grant for PhD studentship abroad (FCT grant SFRH/BD/27482/2006), 132.080 euros.

Other grants

1. KNAW visiting professors **November 2013**
To finance the visit of Prof. Dr. D. Kozen during the fall of 2014 and one workshop
29.000 euros
2. NWO visitors grant **May 2012**
To finance the visit of Prof. Dr. D. Kozen during the summer of 2012
10.500 euros
3. NWO grant to organize the workshop *Kleene Coalgebra* **November 2010**
4. NATO travel grant to attend the International Summer School Marktoberdorf. **August 2007**
5. ERASMUS scholarship. **September 2003- February 2004**
Department of Computer Science, University of Bristol, United Kingdom.
6. Calouste Gulbenkian Foundation scholarship. **October 2002- August 2003**
Scholarship given to junior researchers in mathematics.
Department of Mathematics, University of Minho, Portugal.
Advisor: Prof. Dr. Assis Azevedo.

Research Projects

- CoGrow: Coalgebraic growth – principal investigator. **January 2014- December 2017**
Funded by NWO.
- Practical Coinduction – principal investigator. **September 2012-September 2016**
Joint with Dexter Kozen, Jan Rutten, Marcello Bonsangue and Herman Geuvers.
Funded by NWO.
- QAIS – principal investigator. **January 2012-December 2015**
Quantitative analysis of Systems.
Funded by FCT under grant PTDC/EIA-CCO/122240/2010.
- Arco – research team member. **January 2009-August 2011**

Automated Reasoning on Coalgebras

Partners: Alexandru Ioan Cuza University (Iasi, Romania) and University of Illinois (Urbana-Champaign, USA)

- MathIS – research team member. **January 2009-December 2011**
Reinvigorating Mathematics for the Information Society.
Funded by FCT under grant PTDC/EIA/73252/2006.
- PuRe project **April 2005-December 2005**
Program Understanding and Re-engineering: Calculi and Applications.
Funded by FCT under grant POSI/CHS/44304/2002.
Project grant holder, worked on spreadsheet understanding and safe databases.
- CDSWare (CERN) **June – September 2004**
CERN Summer student.
Main task: rewriting and enhancing BibRecord XML MARC and record handling library, for the BibEdit module.

Collaborations

I collaborate(d) with the following people in the Netherlands:

- Prof. Dr. F.Arbab;
- Prof. Dr. J.Rutten;
- Dr. M. Bonsangue;
- Prof. Dr. B. Jacobs;

and internationally:

- Prof. Dr. M. Boreale, University of Firenze, Italy;
- Prof. Dr. D. Clarke, University of Leuven, Belgium;
- Prof. Dr. B. König, University of Duisburg, Germany;
- Prof. Dr. D. Kozen, Cornell University, USA;
- Prof. Dr. D. Lucanu, University of Iasi, Romania;
- Prof. Dr. L. Moss, Indiana University, USA;
- Prof. Dr. J.N. Oliveira and Dr. L.S. Barbosa, University of Minho, Portugal;
- Prof. Dr. P. Panangaden, McGill University, Canada;
- Dr. F. Bonchi and Dr. D. Pous, ENS Lyon, France;
- Dr. S. Milius, University of Erlangen, Germany;
- Dr. A. Sokolova, University of Salzburg, Austria.

Research Visits

- Dr. F. Bonchi and Dr. D. Pous, ENS Lyon, France **26th – 31st October 2014**
- Prof. Dr. J. Ouaknine, Oxford University, UK **6th – 12th March 2014**

- Dr. F. Bonchi and Dr. D. Petrisan, ENS Lyon, France 4th February– 4th March 2014
- Prof. Dr. L. Moss, Indiana University, USA 5th – 12th August 2013
- Prof. Dr. D. Kozen, Cornell University, USA 29th July – 4th August 2013
- Dr. Clemens Kupke, Strathclyde University, UK 15th – 19th June 2013
- Dr. F. Bonchi and Dr. D. Pous, ENS Lyon, France 18th April– 19th May 2013
- Prof. Dr. A. Kurz and Dr. D. Petrisan, University of Leicester, UK 28th November– 1st December 2012
- Prof. Dr. F. Gadducci, University of Pisa, Italy 31st August– 4th September 2012
Together with Dr. F. Bonchi and Dr. A. Sokolova.
- Prof. Dr. L. Schröder, University of Erlangen-Nuremberg, Germany 29th – 31st May 2012
- Dr. L. Barbosa, University of Minho, Portugal 2nd – 20th May 2012
- Prof. Dr. D. Kozen, Cornell University, USA 9th – 26th April 2012
- Dr. Stefan Milius, University of Braunschweig, Germany 25th – 26th January 2012
Together with Prof. Dr. J. Rutten and Dr. M. Bonsangue.
- Dr. Stefan Milius, University of Braunschweig, Germany 26th – 28th September 2011
Together with Prof. Dr. J. Rutten and Dr. M. Bonsangue.
- Dr. F. Bonchi, ENS Lyon, France 17th – 20th May 2011
- Prof. Dr. D. Kozen, Cornell University, USA March – September 2011
- Dr. F. Bonchi, École Polytechnique, France 9th – 12th March 2011
- Dr. Ana Sokolova, University of Salzburg, Austria 20th January – 27th January 2011
- Dr. Stefan Milius, University of Braunschweig, Germany 23rd August – 26th August 2010
Together with Prof. Dr. J. Rutten and Dr. M. Bonsangue.
- Prof. Dr. C. Palamidessi and Dr. F. Bonchi, École Polytechnique, France 25th – 27th April 2010
Together with Prof. Dr. J. Rutten and Dr. M. Bonsangue.
- Dr. F. Bonchi, LIX, École Polytechnique, France 10th March – 19th March 2010
Together with Prof. Dr. B. König and M. Hülsbusch.
- Dr. F. Bonchi, LIX, École Polytechnique, France 26th November – 2nd December 2009
- Prof. Dr. B. König, University of Duisburg, Germany 2nd July – 7th July 2009
Together with Dr. F. Bonchi.
- Prof. Dr. D. Lucanu, University of Iasi, Romania 24th May – 28th May 2009
Together with Dr. M. Niqui and Prof. Dr. J. Rutten to participate in the second Arco meeting.

Visitors

- Dr. Ana Sokolova, from the University of Salzburg, Austria (5 day visit, December 2014).
- Prof. Prakash Panangaden, from McGill University, Canada (1 week visit, December 2014)
- Dr. Radu Mardare, from Aalborg University, Denmark (1 week visit, October 2014).
- Prof. Dr. D. Kozen, from Cornell University, USA (4 month visit, September-December 2014).

- Msc. Konstantinos Mamouras, from Cornell University, USA (4 month visit, September-December 2014).
- Prof. Dr. J. Ouaknine, from Oxford University, UK (3 day visit, June 2014).
- Dr. Matteo Sammartino, from the University of Pisa, Italy (3 day visit, April 2014).
- Dr. Sergey Goncharov, from the University of Erlangen, Germany (3 day visit, June 2013).
- Louis Parlant, from the ENS Lyon, France (3 month visit, May-August 2013).
- Dr. Robert S. Myers, from the University of Braunschweig, Germany (3 day visit, April 2013).
- Ricardo Oliveira, from Minho University, Portugal (one month visit, February-March 2013).
- Dr. Tomasz Brengos, from the Warsaw University of Technology, Poland (15 day visit, February 2013).
- Jean-Baptiste Jeannin, from Cornell University, USA (15 day visit, March 2013).
- Prof. Dr. B. König and H. Kerstan, from the University of Duisburg, Germany (2 day visit, January 2013).
- Dr. Ana Sokolova, from the University of Salzburg, Austria (5 day visit, December 2012).
- Georgiana Caltas, from Reykjavik University, Iceland (three-month visit, September-December 2012).
- Dr. Stefan Milius, from the University of Braunschweig, Germany (5 day visit, September 2012).
- Prof. Dr. Z. Ésik, from the University of Szeged, Hungary (2 day visit, September 2012).
- Jean-Baptiste Jeannin, from Cornell University, USA (10 day visit, July 2012).
- Dr. Stefan Milius, from the University of Braunschweig, Germany (5 day visit, July 2012).
- Dr. F. Bonchi and Dr. D. Pous, from ENS Lyon, France (3 day visit, November 2011).
- Prof. Dr. D. Kozen, from Cornell University, USA (2 month visit, June-July 2012).
- Dr. Stefan Milius, from the University of Braunschweig, Germany (3 day visit, November 2011).
- Dr. F. Bonchi, from ENS Lyon, France (4 day visit, November 2011).
- Prof. Dr. D. Kozen, from Cornell University, USA (4 day visit, November 2011).
- Dr. Ana Sokolova, from the University of Salzburg, Austria (4 day visit, September 2011).
- Dr. Stefan Milius, from the University of Braunschweig, Germany (2 day visit, November 2010).
- Dr. Ichiro Hasuo, from Research Institute for Mathematical Sciences, Kyoto University, Japan (10 day visit, October 2010).
- Msc. Robert S. Myers, from Imperial College London, United Kingdom (1 day visit, October 2010).
- Dr. Ana Sokolova, from the University of Salzburg, Austria (6 day visit, August 2010).
- Dr. Stefan Milius, from the University of Braunschweig, Germany (4 day visit, March 2010).
- Prof. Dr. B. König and M. Hülsbusch, from the University of Duisburg, Germany (2 day visit, September 2009).
- G. Caltas and E. Goriac, master students at the University of Iasi, Romania (2 week visit, July 2009).
- Prof. Dr. D. Lucanu and E. Goriac, from the University of Iasi, Romania, for the first Arco meeting (2 day visit, January 2009).

Publications

For an up-to-date list of my publications, I refer to my [scholar page](#).

Theses

- [1] Alexandra Silva. Kleene Coalgebra. PhD Thesis. Radboud University Nijmegen. *Cum laude*. Supervisors: Prof. Dr. J. Rutten and Dr. M. Bonsangue.
- [2] Alexandra Silva. Strong Types for Relational Data Stored in Databases or Spreadsheets. Final dissertation *Licenciatura em Matemática e Ciências de Computação* (equivalent of a master thesis). Supervisors: Prof. Dr. J.N.Oliveira and Dr. J. Visser.

Edited books and special issues of international journals

- [3] I. Lanese, M. Carbone, A. Silva and A. Sokolova, editors. Special issue with selected contributions of the 5th Interaction and Concurrency Experience. *Science of Computer Programming* 100, 2015.
- [4] B. Jacobs, A. Silva, S. Staton, editors. Proceedings of the 30th conference on Mathematical Foundations of Programming Semantics. *Electronic Notes in Theoretical Computer Science*, 2014.
- [5] I. Lanese, M. Carbone, A. Silva and A. Sokolova, editors. Proceedings of the 5th Interaction and Concurrency Experience. *Electronic Proceedings in Theoretical Computer Science*, Vol. 104, 2012.
- [6] S. Bliudze, R. Bruni, M. Carbone and A. Silva, editors. Special issue with selected contributions of the 4th Interaction and Concurrency Experience. *Scientific Annals of Computer Science*, vol. XXIII, 2012.
- [7] R. Constable and A. Silva, editors. Logic and Program Semantics - Essays Dedicated to Dexter Kozen on the Occasion of His 60th Birthday. *Lecture Notes in Computer Science*, vol. 7230, Springer, 2012.
- [8] S. Bliudze, R. Bruni, M. Carbone and A. Silva, editors. Proceedings of the 4th Interaction and Concurrency Experience. *Electronic Proceedings in Theoretical Computer Science*, Vol. 59, 2011.
- [9] B. Jacobs, M. Niqui, J. Rutten and A. Silva, editors. Special issue with selected contributions of the 10th International Workshop on Coalgebraic Methods in Computer Science. *Theoretical Computer Science*, vol. 412(38), pp. 4967-5110, 2011.
- [10] S. Ben Mokhtar, S. Bliudze, R. Bruni, A. Silva and A. Troina, editors. Special issue with selected contributions of the 3rd Interaction and Concurrency Experience. *Scientific Annals of Computer Science*, vol. XXI, 2011.
- [11] S. Bliudze, R. Bruni, D. Grohmann and A. Silva, editors. Proceedings of the 3rd Interaction and Concurrency Experience. *Electronic Proceedings in Theoretical Computer Science*, Vol. 38, 2010.
- [12] B. Jacobs, M. Niqui, J. Rutten and A. Silva, editors. Proceedings of the 10th International Workshop on Coalgebraic Methods in Computer Science. *Electronic Notes in Theoretical Computer Science*, Vol. 264(2), 2010.
- [13] B. Jacobs, M. Niqui, J. Rutten, and A. Silva, editors. Short Contributions CMCS 2010. CWI Technical Report SEN-1004, 2010, pp. 1 - 32.

Refereed articles in international journals

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Prizes and awards

- 2015: *Best paper award* at 26th International Conference on Rewriting Techniques and Applications (RTA 2015).
- 2014: Christiaan Huygens prize, honorable mention.
- 2011: IBM Portugal Scientific Award (it is the most important national award in Computer Science for researchers under 36-years old)
- 2010: *Cum laude* distinction for PhD (Radboud Universiteit Nijmegen)
- 2010: Brazilian symposium on formal methods (SBMF'10), *Best presentation award*
- 2010: *Rappe promotie premie*, Radboud Universiteit Nijmegen (Awarded to PhD students who finish their thesis in 4 years)
- 2007: *Prémio Engenheiro António de Almeida* (Awarded to students of selected degrees who successfully conclude their studies with the best average grade).
- 2007: *Prémio Senado Universitário* and *Prémio Governo Civil de Braga* (Awards given, respectively, by the University Dean and the Civil Government of Braga to the student who concludes his/her degree with the highest grade among all University of Minho degrees).
- 2006: *Bolsa de Estudo por Mérito a estudantes do Ensino Superior*, Portuguese Education Ministry (Award given to best students of each scientific area).
- 2006: *Prémio Caixa Geral de Depósitos*, University of Minho (Award given to the best student of selected degrees at University of Minho).
- 2005: MVS award - Most Valuable Student, Microsoft.
- 2003, 2004, 2005 and 2006: *Prémio de mérito escolar*, University of Minho (Award given to best students in each degree).