

CURRICULUM VITAE

PERSONAL DATA

Name: GERARDO SCHNEIDER
Place of Birth: Paysandú, Uruguay
Nationality: Swedish / Uruguayan
Contact Address: Department of Computer Science and Engineering
Chalmers University of Technology
S-412 96 Gothenburg, Sweden
E-mail: gerardo@cse.gu.se / gersch@chalmers.se
Homepage: <http://www.cse.chalmers.se/~gersch/>
Phone: +46 (0)31 772 6073
Degrees: Ph.D. in Computer Science (VERIMAG, France)
M.Sc. in Computer Science (UFRGS - Brazil)
System Engineer (UTN - Argentina)
System Analyst (UTN - Argentina)

CURRENT POSITION

- Since July 2009 I have been at the Department of Computer Science and Engineering (CSE), a shared department between Chalmers and the University of Gothenburg, Sweden. Since July 2014 I am a full professor at CSE, University of Gothenburg.¹
- Since Apr 2010: Associated Researcher (*Investigador Asociado –Ad honorem*) to the Uruguayan National Research & Innovation Agency (*Asociación Nacional de Investigación e Innovación –ANII*), Uruguay.

STUDIES

- 1998 - 2002: VERIMAG²/UJF. Grenoble, France.
Graduate Course: Ph.D. in Computer Science.³
Thesis Title: Algorithmic Analysis of Polygonal Hybrid Systems.
Mention: *Très Honorable*. Date of degree: 18.02.2003.
- 1994 - 1995: UFRGS (Universidade Federal do Rio Grande do Sul). Porto Alegre, Brazil.
Thesis Title: Sequential and parallel computation strategies on coherence spaces.
Graduate Course: M.Sc. in Computer Science (Two-year course). Grade: 10 out of 10 points. Date of degree: 20.02.1997.
- 1986 - 1992: U.T.N. (Universidad Tecnológica Nacional). Concepción del Uruguay, Argentina.
Course: Information System Engineering (Six-year course).
Titles: System Analyst / Information System Engineer. Grade: 8.7 out of 10 points. Date of degree: 02.04.1993.
- Feb. - Oct. 1990: E.S.L.A.I. (Escuela Superior Latino-Americana de Informática), Universidad Nacional de Luján. La Plata, Argentina.
Course: Licentiate in Computer Science (Three-year course). For 1 semester⁴.

¹ I've been Associate Professor (*Universitetslektor*) at the Department of Applied IT Jul 2009–Jul 2010. Till Dec 2011 I have been at the Software Engineering division; have joined the Software Technology division in Jan 2012. Passed the habilitation (*Docent*) in Oct 2010.

² Created in 1993, VERIMAG is an academic research laboratory affiliated with: 1. The scientific University of Grenoble (UJF); 2. The National Research Center (CNRS); 3. Grenoble Polytechnic Institute (INPG).

³ During the 1st year my supervisors were Prof. Joseph Sifakis (main) and Dr. Sergio Yovine (co-supervisor). When Prof. Eugene Asarin moved to VERIMAG and due to a proximity with his research topic, Yovine became my main supervisor and Asarin my co-supervisor.

⁴ E.S.L.A.I. course was not finished because the University was closed in October 1990 by economical and political reasons. There the students used to have a scholarship that included: a salary, an apartment, transportation and food. They all were full time students and got into the School after passing an entry examination open to all South America. Only 35 students per year were accepted.

- 1980 - 1985: High School - Paysandú, Uruguay. Scientific Baccalaureate. Option: Engineering.

PUBLICATIONS

- See Appendix A.

COMMISSIONS OF TRUST

- Since Jun 2017: *Head of the Formal Methods Division*, Department of Computer Science and Engineering, Chalmers | University of Gothenburg.
- Jul 2015 - Dec 2016: *Vice-Head of Division* (“*Line Manager*” for part of the personnel), Software Technology Division, Department of Computer Science and Engineering, Chalmers | University of Gothenburg.
- Jan 2013 - Apr 2015: *Director of Postgraduate Studies* Doctoral School, Department of Computer Science and Engineering, Chalmers | University of Gothenburg.

PATENTS

- *Détermination de nombres d’appel de méthode critique dans une application en langage objet*. IRISA/INRIA: Thomas Jensen, Gerardo Schneider, David Pichardie and David Cachera; France Telecom: Cuihtlauac Alvarado and Pierre Cregut. Transferred to France Telecom by IRISA/INRIA. French Patent Office: No. FR 06 51821. International reference number: PCT/FR2007/051242, submitted 10-05-2007.

RECENT TEACHING ACTIVITIES⁵

- Spring 2012-2017: “Model-Based Testing” (DIT848 / DAT260). First year, study period 4, Software Engineering Master programme, Chalmers | University of Gothenburg, Sweden. Credits: 7.5 HEC. Role: Responsible/Lecturer. (30-40 students)
- Spring 2010-2012: “Test and Verification” (DIT085). 4th semester, Software Engineering and Management bachelor programme, Chalmers | University of Gothenburg, Sweden. Credits: 6 HEC. Role: Responsible/Lecturer. (70-90 students)
- Spring 2010, 2011: “Technical Challenge Project” (DIT597). 2nd semester Software Engineering and Management Master programme, Chalmers | University of Gothenburg, Sweden. Credits: 15 HEC. Role: Coordinator/Supervisor. (35-55 students)
- Fall 2009: “Software Architecture for Distributed Systems – Project” (TIG029). A 3rd semester course on the Software Engineering and Management bachelor programme, Chalmers | University of Gothenburg, Sweden. Credits: 15 HEC. Role: Coordinator/Supervisor. (37 students)
- Fall 2009: “Industrial Challenge Project” (TIA049). 1st semester, Software Engineering and Management Master programme, Chalmers | University of Gothenburg, Sweden. Credits: 15 HEC. Role: Supervisor. (37 students)
- Fall 2009: “Seminars in Software Engineering” (TIA051). For 1st semester Master students on the Software Engineering and Management programme, Chalmers | University of Gothenburg, Sweden. Credits: 7.5 HEC. Role: Responsible/Lecturer/Supervisor. (40 students)
- Spring 2009: “Specification and verification of parallel systems” (INF5140, *Kravspesifikasjon og verifikasjon av parallelle systemer*). A course for MSc and PhD students. Univ. of Oslo, Norway. Role: Responsible/Lecturer.
- Fall 2008: “Programming Languages” (INF3110, *Programmeringsspråk*), a 3rd year course on principles (paradigms) of programming languages. Univ. of Oslo, Norway. Role: Lecturer.
- Spring 2008: “Selected topics on static analysis”, INF5906 A course for M.Sc. and PhD students. Univ. of Oslo, Norway. Role: Lecturer.
- Spring 2007: “Specification and verification of parallel systems” (INF5140). Univ. of Oslo, Norway. Role: Responsible/Lecturer.
- Spring 2006: “Specification and verification of parallel systems” (INF5140), Univ. of Oslo, Norway. Role: Responsible/Lecturer.
- Fall 2005: “Programming Languages” (INF3110/4110, *Programmeringsspråk*), Univ. of Oslo, Norway. Role: Lecturer.

⁵ I list here only my teaching activities since January 2005. See Appendix B for a more detailed description on my previous teaching.

POST-DOCTORAL “SUPERVISION”

1. Since Apr 2017: Srinivas Pinisetty, post-doctoral researcher at the University of Gothenburg. Topic: *Runtime verification of contracts*.
2. Since Sep 2016: Pablo Picazo Sánchez, post-doctoral researcher at the University of Gothenburg. Topic: *Security and privacy*.
3. Mar 2015 - Dec 2016: Thibaud Antignac, post-doctoral researcher at Chalmers. Topic: *Privacy-by-design and foundations of privacy*.

PhD SUPERVISION

Main supervisor

1. Since Nov 2016: Main supervisor of Hanaa Alshareef –Ph.D. student Chalmers. Topic: *Privacy*.
2. Jan 2013 - Nov 2017: Main supervisor of Raúl Pardo Jiménez –Ph.D. student Chalmers. Topic: *Privacy Policies for Social Networks — A Formal Approach* PhD defense: Nov 22, 2017.
3. Sep 2013 - Nov 2017: Main supervisor of John J. Camilleri –Ph.D. student Gothenburg University. Topic: *Contracts and Computation — Formal Modelling and Analysis for Normative Natural Language*. PhD defense: Nov 1st, 2017.
4. Apr 2008 - Jun 2012: Main supervisor of Hallstein A. Hansen –Ph.D. student Univ. of Oslo. Title: *Safety verification of planar, nonlinear, complex control systems by over-approximation*. PhD defense: Jun 7, 2012.
5. Oct 2006 - Dec 2010: Main supervisor of Cristian Prisacariu –Ph.D. student Univ. of Oslo. Title: *A Dynamic Deontic Logic over Synchronous Actions*. PhD defense: Dec 8, 2010.

Co-supervisor

1. Since May 2014: Co-supervisor of Mahsa Varshosaz – Ph.D. student, University of Halmstad. (Main supervisor: Mohammad Reza Mousavi.) Working on *Model-Based Testing of Software Product Lines*.
2. Since Sep 2013: Co-supervisor of Mauricio Chimento –Ph.D. student, Chalmers. (Main supervisor: Wolfgang Ahrendt.) Working on *A uniform approach to static and runtime verification techniques*.
3. Since Sep 2013: Co-supervisor of Hamid Ebadi –Ph.D. student, Chalmers. (Main supervisor: David Sands.) Working on *Differential privacy*.
4. Sep 2011 - : Co-supervisor of Gabriele Paganelli –Ph.D. student, Chalmers. (Main supervisor: Wolfgang Ahrendt.) Working on *Verification-based test case generation*.
5. Oct 2005 - Mar 2011: Co-supervision of Einar W. Høst –Ph.D. student, Univ. of Oslo. (Main supervisor: Bjarte M. Østvold.) (PhD defense: Mar 2, 2011.) Title: *Interactive Tool Support for Agile Development*

PARTICIPATION AS PH.D. JURY MEMBER

1. Oct 2017: PhD Jury member (stand-in) of the thesis *Enhancing Privacy in the Advanced Metering Infrastructure: Efficient Methods, the Role of Data Characteristics and Applications* by Valentin Tudor. Chalmers University of Technology, Sweden.
2. Sep 2016: PhD Jury member (stand-in) of the thesis *Automating Black-Box Property Based Testing* by Jonas Almström Duregård. Chalmers University of Technology, Sweden.
3. Feb 2015: PhD Jury member (reviewer) of the thesis *Méthodes formelles pour le respect de la vie privée par construction* by Thibaud Antignac. Institut National des Sciences Appliquées de Lyon (INSA), France.
4. Jul 2014: PhD Jury member (evaluator) of the thesis *Verification and Validation of Web Service Compositions using Formal Methods* by José Antonio Mateo Cortés. University of Castilla-La Mancha, Spain.
5. Nov 2013: PhD Jury member (grading committee) of the thesis *Tracking Dependencies for Security and Privacy* by Arnar Birgisson. Chalmers University of Technology, Sweden.
6. Mar 2013: PhD Jury member (stand-in) of the thesis *Model-Based Analysis of Critical Resources in Automotive System Architectures* by Keneth Lind. Chalmers University of Technology, Sweden.
7. Jun 2012: PhD Jury member (reviewer) of the thesis: *A Formal Framework for Specifying and Analyzing Liabilities Using Log as Digital Evidence* by Eduardo Mazza. INRIA / VERIMAG, France.
8. May 2012: Opponent to Licentiate defense of Siavash Soleimanifard, title: *Procedure-Modular Verification of Temporal Safety Properties*, KTH, Sweden.
9. Oct 2011: PhD Jury member (stand-in) of the thesis *Lightweight Enforcement of Fine-Grained Security Policies for Untrusted Software* by Phu H. Phung. Chalmers University of Technology, Sweden.
10. Aug 2011: PhD Jury member (reviewer) of the thesis *Contractual Verification of Web Service Compositions with Time Constraints* by Enrique Martínez López. University of Castilla-La Mancha, Spain.

11. Feb 2011: PhD Jury member (examiner) of the thesis: *Design, Verification and Implementation of Component-based Systems* by Imen Ben-Hafaiedh. VERIMAG (University Grenoble I), France.
12. Mar 2008: PhD Jury member (reviewer) of the thesis *Automating the Negotiation of Agreements* by Manuel Resinas. University of Sevilla, Spain
13. Nov 2007: PhD Jury member (reviewer) of the thesis *Parametric Specification of Dynamic Memory Utilization* by Diego Garbervetsky. University of Buenos Aires, Argentina.

INVOLVEMENT IN OTHER DOCTORAL ACTIVITIES

Examiner of PhD Students

1. Since 2017: Alejandro Gómez Londoño, Topic: *Concurrent proven-correct CakeML programs* (Supervisor: Magnus Myreen). Chalmers, Sweden.
2. Since 2017: Oskar Abrahamsson, Topic: *Proofs in CakeML* (Supervisor: Magnus Myreen). Chalmers, Sweden.
3. Since 2017: Iulia Bastys, Topic: *Security* (Supervisor: Andrei Sabelfeld). Chalmers, Sweden.
4. Since 2017: Sergio Garcia, Topic: *Software engineering for robotic systems* (Supervisor: Patrizio Pelliccione). University of Gothenburg, Sweden.
5. Since 2016: Yu-Tin “Jeff” Chen, Topic: *Robust and Flexible Intermediate Verification* (Supervisor: Carlo Furia). Chalmers, Sweden.
6. Since 2015: Alexander Sjösten, Topic: *Language-Based Security* (Supervisor: Andrei Sabelfeld). Chalmers, Sweden.
7. Since 2013: Mikael Kågeback, Topic: *Machine Learning, Big Data* (Supervisor: Devdatt Dubhashi). Chalmers, Sweden.
8. Since 2013: Daniel Hausknecht, Topic: *Security in Web Applications* (Supervisor: Andrei Sabelfeld). Chalmers, Sweden.
9. 2012–2015: Émil Alégroth, Title of thesis: *Visual GUI Testing: Automating High-Level Software Testing in Industrial Practice* (Supervisor: Robert Feldt). Chalmers, Sweden.
10. 2012–2013: Joel Wilson, Topic: *Machine Learning, Big Data* (Supervisor: Devdatt Dubhashi). Chalmers, Sweden

Member of PhD Advisory Committees

1. 2010: Member of the PhD Advisory Committee of Ran Ji. Dept. of Computer Science and Engineering, Chalmers Institute of Technology, Sweden.
2. 2011: Member of the PhD Advisory Committee of Jonas Duregård. Dept. of Computer Science and Engineering, Chalmers Institute of Technology, Sweden.
3. 2011: Member of the PhD Evaluation Committee of the following students at the Dept. of Informatics, University of Oslo, Norway.
 - Lizeth Tapia Tarifa
 - Crystal Din
 - Violet Pun
 - Lucian Bentea

Member of Doctoral Symposiums

- PC member of the Doctoral Symposium affiliated with FCT 2011. 26 Aug 2011, Oslo, Norway. <http://fct11.ifi.uio.no/index.php?n=Workshops.DoctoralSymposium>

SUPERVISION AND EXAMINATION OF MASTER AND BACHELOR THESES

Supervision of MSc theses

1. Since Jan 2018: Vaios Taxiarchis and Malama Kasanda –M.Sc. students in Computer Systems and Networks at Chalmers. Title: *A Comparative Analysis of Blockchain Technologies for Data Privacy*
2. Since Jan 2018: Akar Khatab and Soroush Dasteshtan Nejad. –M.Sc. students in Computer Systems and Networks at Chalmers. Title: *Programming Languages for Smart Contracts: A Comparative Analysis.*
3. Since Jan 2018: Axel Arkheden and Fredrik Enetorp –M.Sc. students in Computer Science at Chalmers. Title: *A Taxonomy of Browser Extensions.* (Together with Pablo Picazo-Sanchez)
4. Since Jan 2018: Joakim Sundling and Gustav Axelsson. –M.Sc. students in Computer Systems and Network at Chalmers. Title: *Malware on Chrome: Secure Preferences.* (Together with Pablo Picazo-Sanchez)

5. Since Jan 2018: Albin Garpetun and Jim Bengtsson –M.Sc. students in Computer Science: Algorithms, Language and Logic at Chalmers. Title: *You are touching me! A Monitoring Mechanism for Secure Key Generation.* (Together with Pablo Picazo-Sanchez)
6. Feb-Oct 2017: Doni Ramadhan –M.Sc. student in Software Engineering at Chalmers. Title: *Secure Migrating Monitors in Internet of Things.* (Together with Pablo Picazo-Sanchez)
7. Feb-Jun 2017: Joel Moriana –M.Sc. student in Computer Science: Algorithms, Languages and Logic at Chalmers. Title: *Delve into Malware on Browsers.* (Together with Pablo Picazo-Sanchez)
8. Jan-Jul 2017: Mushfiqur Rahman –M.Sc. student in Computer Science: Algorithms, Language and Logic at University of Gothenburg. Title: *A Petri Net Semantics for Privacy-Aware Data Flow Diagrams.* (Together with Raúl Pardo)
9. Since Apr 2016: Niklas Wärvik –M.Sc. student in Computer Science: Algorithms, Language and Logic at Chalmers. Title: *Enhancing Privacy Settings of a Social Network.* (Together with Raúl Pardo)
10. Since Jan 2016: : Mohammad Reza Haghshenas –M.Sc. student in Software Engineering at University of Gothenburg. Title: *Tools and techniques for querying normative contracts.* (Together with John Camilleri)
11. Jan-Jun 2016: Ivana Kellyérová –M.Sc. student in Computer Science: Algorithms, Language and Logic at Chalmers. Title: *A Real-Time Extension of the Formal Privacy Policy Framework.* (Together with Raúl Pardo)
12. Jan-Jun 2016: Mukelabai Mukelabai –M.Sc. student in Software Engineering at University of Gothenburg. Title: *A Security Protocol to Ensure Surveillance Accountability.* (Together with Thibaud Antignac)
13. Dec 2015 - Jun 2016: Runa Gulliksson –M.Sc. student in Computer Science: Algorithms, Language and Logic at Chalmers. Title: *Automatic translation from SCL to Timed Automata.* (Together with John Camilleri)
14. Jan-Oct 2014: Caroline Strandberg and Johan Sjöblom –M.Sc. students in Computer Science: Algorithms, Language and Logic at Chalmers. Title: *Automatic Regression Testing using Visual GUI Tools.* Thesis prepared at the company *Saab AB* based in Gothenburg.
15. Jan 2012 - Nov 2013: Yashar Bizhanzadeh –M.Sc. student in Software Engineering at University of Gothenburg. Title: *Visualizing cyber attacks with misuse case maps.*
16. May 2012 - Feb 2013: Hamid Ebadi –M.Sc. student in Secure and Dependable Computer Systems at Chalmers University of Technology. Title: *PINQuin, a framework for differentially private analysis.*
17. Jan - Nov 2012: Naveed Qamar –M.Sc. student in Software Engineering at University of Gothenburg. Title: *Performance monitoring of web-based IT systems.* Thesis prepared at the company *Volvo IT* based in Gothenburg.
18. Jan 2010 - Oct 2012: Ismail Fakir –M.Sc. student in Software Engineering at University of Gothenburg. Title: *Dynamic runtime verification of contracts.*
19. Nov 2011 - Jun 2012: Robert Nagy and Aram Timofeitchik –M.Sc. students in Software Engineering at Chalmers University of Technology. Title: *Verification of real-time graphics systems.* Thesis prepared at *SVT (National Swedish Television)* based in Gothenburg.
20. Jan - Oct 2011: Pavel Rabetski –M.Sc. student in Software Engineering at University of Gothenburg. Title: *Migration of an on-premise application to the Cloud.* Thesis done at the company *InformaIT* based in Gothenburg.
21. Jan - Oct 2011: Venkata Kalyan Ram –M.Sc. student in Software Engineering at University of Gothenburg. Title: *Model-checking AUTOSAR basic software component.*
22. Jan - Oct 2011: Bharat Bhushan Konka –M.Sc. student in Software Engineering at University of Gothenburg. Title: *A case study on software testing methods and tools.* Thesis done at the company *Volvo Technology* based in Gothenburg.
23. Jan 2010 - Jun 2011: Aida Niknejad –M.Sc. student in Software Engineering at University of Gothenburg. Title: *A comparative analysis of mobile applications using Android.* Thesis done at the company *Logica* based in Gothenburg.
24. Sep 2009 - Jan 2010: Saeed Aghaee –M.Sc. student in Software Engineering at University of Gothenburg. Title: *Measuring the Quality of Mashup Components.*
25. Aug - Dec 2008: Stephen Fenech (co-supervisor) –M.Sc. student, Univ. of Malta. Title: *Conflict Analysis of Deontic Contracts.*
26. Apr - Aug 2007: Christian Colombo (local supervisor), M.Sc. student from Univ. of Malta visiting UiO as Erasmus student. Title: *Practical runtime monitoring with impact guarantees of Java programs with real-time constraints.*
27. 2005-2006: Øystein Torget (co-supervisor), M.Sc. student. Univ. of Oslo. Title: *Runtime Validation of Communication Histories.*

Supervision of bachelor theses

1. Mar - Jun 2012: Jon Kristensen. Software Engineering at Chalmers | University of Gothenburg. Title: *Designing a User Interface For an End-to-end Secure Messaging System*
2. Jan - Jun 2011: Arash Akbarinia, Javier Valdz Medrano and Rashid Zamani. Software Engineering at Chalmers | University of Gothenburg. Title: *Speech Recognition for Noisy Environments*.
3. Jan - Jun 2011: Jon Fridéhn, Kimmi Sandhu, and Ran Tsoref. Software Engineering at Chalmers | University of Gothenburg. Title: *Extending Vehicle Telematics Services to Mobile Devices: An Architectural Approach*.
4. Jan - Jun 2011: Samaneh Tork Abadi. Software Engineering at Chalmers | University of Gothenburg. Title: *Construction of a Generic Reference Architecture for Mobile Applications*.
5. Jan - Jun 2010: Manuel Nagel and Ilija Pavlov. Software Engineering at Chalmers | University of Gothenburg. Title: *Reviewing how customers benefit in practice from their IT-service providers using lean*.
6. Jan - Jun 2010: Fredrik Olsson and Marcus Sjölin. Software Engineering at Chalmers | University of Gothenburg. Title: *Web UI*.
7. Jan - Jun 2010: Seyed Morteza Montazeri. Software Engineering at Chalmers | University of Gothenburg. Title: *Encoding of the contract language CL into the Grammatical Framework (GF)*.
8. Mar 1997 - Dec 1998: I (co-)supervised 6 undergraduate students at UCPel, Brazil.

Examination of MSc theses

1. Since Jan 2018: Gunnar Örn Gunnarsson and Pedram Talebi –M.Sc. students in Algorithms, Language, and Logic at Chalmers. Title: *Privacy-Preserving Route Matching*
2. Feb 2016: Robert Edström and Jack Pettersson –M.Sc. students in Algorithms, Language, and Logic at Chalmers. Title: *Safer Smart Contracts through Type-Driven Development*.
3. Sep 2015: Miriam Economou and Zeynep Gökmen –M.Sc. students in Algorithms, Language, and Logic at Chalmers. Title: *Optimizing UML diagram generation for complex systems*.
4. Oct 2011: Ingram Bondin –M.Sc student in Computer Science at the University of Malta. Title: *A Discrete Theory of Slowdown for Synchronous Programs*.

LEADERSHIP DEVELOPMENT

- Jan 2018: Leadership Day (*Chefdagen: Att leda i en akademisk kontext*) at Chalmers Institute of Technology, Sweden.
- Jun 2016: Course on *Alcohol in the Working Place (Arbetsmiljöutbildning tema Alkohol)* at Chalmers Institute of Technology, Sweden.
- Jun 2016: Course on *Conflict Management (Arbetsmiljöutbildningen: Konflikthantering)* at Chalmers Institute of Technology, Sweden.
- Oct 2015: Course on *Leading Change (“Förändringsledning”)* at Chalmers Institute of Technology, Sweden.
- Oct–Nov 2015: Course on *Basic Management Training (“Grundläggande chefsutbildning”)* at Chalmers Institute of Technology, Sweden.

PEDAGOGICAL EDUCATION/ACTIVITIES

I have taken 20 HEC (Higher Education Credits) on pedagogical courses.

- 2010: Participated in a pedagogical project on *Constructive Alignment* at Chalmers Learning Center, at Chalmers Institute of Technology, Sweden. Besides attending two workshops (see below), the task consists in completely redesigning a (master level) course to align intended learning outcomes, teaching and learning activities, and assessment. 6 HEC.
 - Oct. 2010: Second workshop on “Constructive Alignment” given by Chalmers Learning Center, at Chalmers Institute of Technology, Sweden.
 - Jun. 2010: A first full day workshop on “Constructive Alignment” given by Chalmers Learning Center, at Chalmers Institute of Technology, Sweden.
- Feb. - Jun. 2010: *Teaching and Learning in Higher Education (HPE101)*, pedagogical course given at Pedagogical Development and Interactive Learning (PIL) —Faculty of Education, University of Gothenburg, Sweden. 5 HEC.
- Mar. 2010: *Supervision of Research: Principles, Models and Issues (TLE202)*, course on PhD Supervision given at the Centre for Competence and Knowledge Building in Higher Education, Chalmers Institute of Technology, Sweden. 3 HEC.

- Sep. 2003: *I-RITE* course given by Carolyn Gale (Stanford University). A two-day workshop that gives researchers practice in describing their work to a broad audience. 12 hours classroom + 4 hours individual work. (Recognized in 2010 as equivalent to *TLE205: Popular Science Communication* (3 HEC) given at the Centre for Competence and Knowledge in Higher Education, Chalmers Institute of Technology, Sweden.)
- Oct. 2005: Took a tutorial on how to teach programming languages: "The concepts-based approach for teaching programming: how to put it into practice", by Peter Van Roy (*Université Catholique de Louvain*, Belgium).
- Aug. - Dec. 1996: *Seminar on Didactic and Pedagogy*. Part of the qualification program for lecturers at UCS, Brazil. 60-hours course. (Recognized in 2010 as equivalent to *TLC102: Teaching, Learning and Evaluation* (3 HEC) given at the Centre for Competence and Knowledge in Higher Education, Chalmers Institute of Technology, Sweden.)

OTHER PEDAGOGICAL AND ADMINISTRATIVE ACTIVITIES

- Initiated the contacts for an ERASMUS agreement between the University of Gothenburg (Sweden) and the University of Malta (Malta), and the University of Castilla – La Mancha (Spain). Agreements signed beginning of 2010.
- Pedagogical responsible for the ERASMUS/SOCRATES program between the Dept. of Informatics (IFI) at Univ. of Oslo, and:
 - January 2007–2010: The University Paris 12, France.
 - March 2007–2010: The University of Malta
- 2008-2009: Member of the "ICT4D" (*ICT for Development*) group at IfI.

PROGRAMME COMMITTEES

1. The 18th International Conference on Runtime Verification (RV'18). Limassol (Cyprus), 10-13 Nov 2018. <https://rv2018.isp.uni-luebeck.de/>
2. 30th Nordic Workshop on Programming Theory (NWPT'18) - Oslo (Norway), Oct 2018. <http://XXX>
3. 14th International Conference on Integrated Formal Methods (iFM'18). Maynooth (Ireland), 5-7 Sep 2018. <http://ifm2018.cs.nuim.ie/>
4. 3rd VORTEX Workshop on Runtime Verification (co-located with ECOOP'18). Amsterdam (The Netherlands), 16-21 Jul 2018. <https://conf.researchr.org/track/ecoop-issta-2018/vortex-2018-papers>
5. 22nd International Symposium on Formal Methods (FM'18). Oxford (UK), 15-17 Jul 2018. (As part of FLoC 2018, the Federated Logic Conferences.) <http://www.fmeurope.org/?p=613>
6. 6th International Conference in Formal Methods and Software Engineering (FORMALISE'18). Gothenburg (Sweden), 2 Jun 2018. (Co-located with ICSE 2018) <http://www.formalise.org/>
7. 29th Nordic Workshop on Programming Theory (NWPT'17) - Turku (Finland), 1-3 Nov 2017. <https://research.it.abo.fi/nwpt17/>
8. Second International Workshop on Pre- and Post-Deployment Verification Techniques (PrePost'17). Torino (Italy), 19 Sep 2017. <http://staff.um.edu.mt/afra1/prepost17/>
9. 13th International Conference on Integrated Formal Methods (iFM'17). Torino (Italy), 18-22 Sep 2017. <http://ifm2017.di.unito.it/>
10. The 17th International Conference on Runtime Verification (RV'17). Seattle (USA), 13-16 Sep 2017. <http://rv2017.cs.manchester.ac.uk>
11. 2nd IFIP International Conference on Topics in Theoretical Computer Science (TTCS'17). Tehran (Iran), 12-14 Sep 2017. <http://ttcs.ir/>
12. IEEE International Conference on Software Quality, Reliability, and Security (QRS'17). Prague (Czech Republic), 26-28 Jul 2017. <http://paris.utdallas.edu/qrs17>
13. 2nd VORTEX Workshop on Runtime Verification (co-located with ECOOP'17). Barcelona (Spain), 18-23 Jun 2017. <http://2017.ecoop.org/track/vortex-2017-papers>
14. Software Verification and Testing (SVT'17) —A track of the ACM Symposium on Applied Computing (SAC'17). Marrakech (Morocco), 3-7 Apr 2017 <http://antares.sip.ucm.es/svt2017/>
15. 1st Workshop on Formal Methods on Privacy (co-located with FM'16). Limassol (Cyprus), 8 Nov 2016. <http://fmpriv2016.cs.ucy.ac.cy>
16. 21st International Symposium on Formal Methods (FM'16). Limassol (Cyprus), 7-11 Nov 2016. <http://fm2016.cs.ucy.ac.cy>
17. 28th Nordic Workshop on Programming Theory - Rold Storkro, North Jutland (Denmark), 31 Oct - 2 Nov 2016. <http://nwpt2016.cs.aau.dk/>

18. The 16th International Conference on Runtime Verification (RV'16). Madrid (Spain), 23-30 Sep 2016. <http://rv2016.imag.fr/>
19. 1st VORTEX Workshop on Runtime Verification (co-located with ECOOP'16). Rome (Italy), 17-22 Jul 2016. <http://2016.ecoop.org/track/VORTEX-2016>
20. The 10th International Symposium on Theoretical Aspects of Software Engineering (TASE'16). Shanghai (China), 17-19 Jul 2016. <http://tase2016.ecnu.edu.cn/>
21. 12th International Conference on Integrated Formal Methods (iFM'16). Reykjavik (Iceland), 1-3 Jun 2016. <http://en.ru.is/ifm>
22. 12th International Colloquium on Theoretical Aspects of Computing (ICTAC'15). Cali (Colombia), 29-31 Oct 2015. <http://www.ictac2015.co>
23. 27th Nordic Workshop on Programming Theory - Reykjavik (Iceland), 21-23 Oct 2015. <http://icetcs.ru.is/nwpt2015/>
24. 13th International Conference on Software Engineering and Formal Methods (SEFM'15). York, UK, 7-11 Sep 2015. <http://www.cs.york.ac.uk/sefm2015>
25. First International Conference on Topics in Theoretical Computer Science (TTCS'15). Institute for Research in Fundamental Sciences (IPM). Tehran, Iran, 26-28 Aug 2015. <http://ttcs.ir/>
26. 12th International Conference on Software Engineering and Formal Methods (SEFM'14). Grenoble, France, 1-5 Sep 2014. <http://sefm2014.inria.fr/>
27. 26th Nordic Workshop on Programming Theory - Halmstad (Sweden), 29-31 Oct 2014. <http://ceres.hh.se/mediawiki/index.php/NWPT\2014>
28. 11th International Conference on Software Engineering and Formal Methods (SEFM'13). Madrid, Spain, 25-27 Sep 2013. <http://antares.sip.ucm.es/sefm2013/>
29. 25th Nordic Workshop on Programming Theory (NWPT'13). Tallin (Estonia), 20-22 November 2013. <http://cs.ioc.ee/nwpt13/>
30. The 10th International Conference on Software Engineering and Formal Methods (SEFM'12). Thessaloniki, Greece, 1-5 Oct 2012. (<http://sefm2012.city.academic.gr/>)
31. 6th Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'12) - Bertinoro, Italy, Sep 2012. <http://www.um.edu.mt/ict/flacos2012/>
32. 24th Nordic Workshop on Programming Theory (NWPT'12) - Bergen, Norway, Oct 2012. <http://nwpt12.ii.uib.no/>
33. 21st Brazilian Symposium on Artificial Intelligence (SBIA 2012). Curitiba, Brazil, 20-25 Oct 2012. <http://www.inf.ufpr.br/bracis2012/SBIA.html>
34. The 9th International Conference on Software Engineering and Formal Methods (SEFM'11). Montevideo, Uruguay, 14-18 Nov 2011. <http://www.fing.edu.uy/inco/eventos/SEFM2011/>. **(PC co-chair)**
35. 5th Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'11) - Málaga, Spain, 22-23 Sep 2011. <http://flacos11.lcc.uma.es/>
36. 8th International Colloquium on Theoretical Aspects of Computing (ICTAC'11) - Johannesburg, South Africa, 31 Aug - 2 Sep 2011. <http://www.ictac.net/ictac2011/>
37. 23rd Nordic Workshop on Programming Theory (NWPT'11) - Västerås (Sweden), 26-28 Oct 2011. <http://www.mrtc.mdh.se/nwpt2011/>
38. 2nd Workshop on Formal Methods in Software Product Line Engineering (FMSPLE'11) - Munich, Germany, Aug 2011.
39. VIII Encontro Nacional de Inteligência Artificial (CSBC'11 - ENIA) - Natal, Brazil, 19-22 Jul 2011. <http://www.dimap.ufrn.br/csbc2011/eventos/enia.php>
40. 4th Workshop on Formal Languages for Contract-Oriented Software Development (FLACOS'10). Pisa, Italy, 18-19 Sep. 2010. <http://www.di.unipi.it/flacos2010>. **(PC co-chair)**
41. First Workshop on Formal Methods in Software Product Line Engineering (FMSPLE 2010). Jeju Island, South Korea, Sep 2010. http://www.iese.fraunhofer.de/de/veranstaltungen_messen/fmsple/
42. 22nd Nordic Workshop on Programming Theory (NWPT'10). Turku (Finland), 10-12 Nov 2010. <https://research.it.abo.fi/nwpt10/>
43. XX Brazilian Symposium on Artificial Intelligence (SBIA 2010). São Bernardo do Campo, Brazil, Oct 2010. <http://www.jointconference.fei.edu.br/>
44. The 8th IEEE International Conference on Software Engineering and Formal Methods (SEFM'10). Pisa, Italy, 13-17 Sep 2010. <http://www.iist.unu.edu/sefm2010>
45. 4th Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'10). Pisa, Italy, Sep 2010. <http://www.di.unipi.it/FLACOS2010/>. **(PC co-chair)**
46. 6th International Verification Workshop (VERIFY'10). Edinburgh, UK, 20-21 July 2010. <http://www.mais.informatik.tu-darmstadt.de/verify2010/>

47. International Workshop on Component and Service Interoperability (WCSI'10). Málaga, Spain, 29 Jun 2010. <http://wcsi10.lcc.uma.es/>
48. 21st Nordic Workshop on Programming Theory (NWPT'09). Lyngby, Denmark, 14-16 Oct 2009. <http://www2.imm.dtu.dk/projects/nwpt09>
49. The 2nd Chilean Workshop on Formal Methods (ChWFM'09). Santiago de Chile, Chile, 9-13 Nov 2009. <http://wfm.usach.cl>
50. 3rd Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'09). Toledo, Spain, 24-25 Sep 2009. <http://www.ifi.uio.no/flacos09/>. **(PC co-chair)**
51. The 7th IEEE International Conference on Software Engineering and Formal Methods (SEFM'09). Hanoi, Vietnam, 23-27 Nov 2009. <http://www.iist.unu.edu/sefm2009>
52. The 3rd IFAC Conference on Analysis and Design of Hybrid Systems (ADHS'09). Zaragoza, Spain. <http://diisconf.cps.unizar.es/adhs09>
53. 2nd Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'08). Malta. <http://www.ifi.uio.no/flacos08/> **(PC co-chair)**
54. The 6th IEEE International Conference on Software Engineering and Formal Methods (SEFM'08). Cape Town, South Africa. <http://www.iist.unu.edu/SEFM08/>
55. 20th Nordic Workshop on Programming Theory (NWPT'08). Tallinn, Estonia. <http://cs.ioc.ee/nwpt08/>
56. 34th *Conferencia Latinoamericana de Informática* (CLEI'08). Santa Fé, Argentina. <http://www.clei2008.org.ar/>
57. The 8th Workshop on Runtime Verification (RV'08). Budapest, Hungary. <http://rv08.in.tum.de/>
58. 1st Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'07). Oslo, Norway. <http://www.ifi.uio.no/flacos07/>. **(PC co-chair)**
59. The 19th Nordic Workshop on Programming Theory (NWPT'07). Oslo, Norway. <http://nwpt07.ifi.uio.no/>. **(PC co-chair)**
60. 1st Workshop on Formal Techniques for Specification and Analysis of Security (FTSAS'06). Chile. <http://www.fing.edu.uy/inco/eventos/ftsas06/>
61. The 4th International Workshop on Parallel and Distributed Methods in verification (PDMC'05). Lisbon, Portugal, 10 Jul 2005. <http://anna.fi.muni.cz/PDMC/PDMC05/>

EDITORIAL ACTIVITIES

- Co-editor of a special issue of the *Journal of Software and System Modeling (SoSyM)*, 14(1): 2015. Springer.
- Co-editor of the book *Software Engineering and Formal Methods*, Lecture Notes in Computer Science, vol. 7041, Nov 2011. Springer.
- Managing Guest Editor of the following special issues of *The Journal of Logic and Algebraic Programming*, Elsevier:
 - 4th Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'10).
 - 3rd Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'09).
 - 2nd Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'08).
 - 2st Workshop on Formal Languages and Analysis of Contract-Oriented Software (FLACOS'07).
 - The 19th Nordic Workshop on Programming Theory (NWPT'07).

EVALUATION ACTIVITIES

- 2018: Member of the evaluation committee for the Argentinian programme for IT education for primary and secondary education (*Program.AR*), *Fundación Manuel Sadosky* and the Ministerio de Ciencia, Tecnología e Innovación Productiva (*Foundation Manuel Sadosky and the Ministry of Science, Technology and Productive Innovation*). Argentina.
- 2015: Member of the evaluation committee for INRIA project-teams. Evaluation panel on *Security and Confidentiality*. Paris, France.
- 2008: Evaluator of an International Collaborative Bilateral Research Grant between Sweden and third countries, submitted to *Vetenskapsrådet*, Sweden. (1 project evaluated)
- Since 2007: I am a researcher and project evaluator for the *Argentinian Research Council* (CONICET), Argentina. (6 evaluations done)
- Since 2006: I am a project evaluator for the *Fund for Scientific and Technological Research* of the *Ministry of Education, Science and Technology* (FONCYT) of the Argentinian Government. Argentina. (5 projects evaluated)

PROJECT COORDINATION

- Aug. 2006 - Dec. 2010 : Coordinator (Principal Investigator) for the Nordunet3 project “COSoDIS: Contract-Oriented Software Development for Internet Services”⁶. Partners: University of Oslo –UiO (Norway), SICS (Sweden) and Aalborg University (Denmark). Budget: 4,800,000 DKK (approx. 645,000 Euros).
- Mar. 1997 - Aug. 1998: Coordinated (locally, at UCPel) the project QaP–FOR “Application of formal methods to the improvement of quality and productivity in software development” (*Aplicação de métodos formais para a melhoria da qualidade e produtividade em software*), financed by FAPERGS (*Fundação de Amparo à Pesquisa do Rio Grande do Sul*). Pelotas, Brazil.

PARTICIPATION IN PROJECTS

- Since Jan 2016: *PolUser: Rich User-Controlled Privacy Policies*, funded by The Swedish Research Council (*Vetenskapsrådet*). Reg. Nr. 2015-04154. Budget: 3.963 MSEK. Duration: 4(+1) years. (**Principal Investigator**)
- Since Dec 2014: *Runtime Verification beyond Monitoring (ARVI)*, ICT COST Action IC1402. Duration: 4 years. (**Member of the Management Committee**)
- Since Jan 2013: *Reliable Multilingual Digital Communication: Methods and Applications*, funded by The Swedish Research Council (*Vetenskapsrådet*), Framework Grant: The Digitized Society - Past, Present, and Future, Reg. Nr. 2012-5746. Budget: 17 MSEK. Duration: 5(+1) years. (**Co-applicant**)
- Since Jan 2012: *DataBin: Data-Driven Secure Business Intelligence*, funded by the Swedish Foundation for Strategic Research (SSF). Reg. Nr. IIS11-0089. Budget: 25 MSEK. Duration: 5(+1) years (**Co-applicant**)
- Jan–Dec 2014: *Assurance as a Service: Upfront Quality and Safety in Continuous Software Engineering*, funded by the Software Center (Chalmers, and the University of Gothenburg). Partners: Volvo Cars, Ericsson, Saab. (**Co-applicant**)
- Jan 2013 – Dec 2016: *StarVOrS: Unified Static and Runtime Verification of Object-Oriented Software*, funded by The Swedish Research Council (*Vetenskapsrådet*), Reg. Nr. 2012-4499. Budget: 2.55 MSEK. (**Co-applicant**)
- Nov 2011 – Apr 2012: *DaDeS: Data-driven Decision Support*, funded by Vinnova (*Utmaningsdriven Innovation 2011*, phase A). Budget: 700 000 SEK. (**Co-applicant**)
- Aug 2006 – Dec 2010: *COSoDIS: Contract-Oriented Software Development for Internet Services*, funded by the Nordunet3 consortium. Partners: University of Oslo –UiO (Norway), SICS (Sweden) and Aalborg University (Denmark). Budget: 4.8 MDKK. (**Principal Investigator**)
- Jan 2004 – Mar 2005: Worked in the French project *CASTLES: Static Analyses for Secure Embedded Systems*, funded by RNTL. Academic partners: INRIA Sophia-Antipolis, INRIA/IRISA Rennes; Industrial partners: AQL, Oberthur Card Systems.
- Oct 2002 - Oct 2003: Participated in the European project *ADVANCE*, Contract No. IST–1999–29082. Worked on the verification of infinite-state systems applied to process algebra.
- Oct 1998 - Oct 2001: Participated in the European project ESPRIT-LTR 26270 VHS *Verification of Hybrid systems*. Part of my Ph.D. thesis was supported by this project.

ORGANIZATION (PC CO-CHAIR) OF WORKSHOPS AND CONFERENCES

1. Nov 2018: Track on *Reliable Smart Contracts: State-of-the-art, Applications, Challenges and Future Directions* — ISoLA 2018. Limassol, Cyprus <http://www.isola-conference.org/isola2018/tracks.html> (Co-organized with Martin Leucker and César Sánchez)
2. 17 Mar 2017: *Workshop on Contracts and RV* (associated with the EU COST action ARVI). Prague, Czech Republic https://www.cost-arvi.eu/?page_id=862. (Co-organized with Christian Colombo and Gordon Pace)
3. Nov 2011: *The 9th International Conference on Software Engineering and Formal Methods (SEFM'11)*. Montevideo, Uruguay. (Co-organized with Alberto Pardo and Gilles Barthe)
4. 17-18 Sep 2010: *4th Workshop on Formal Languages for Contract-Oriented Software Development (FLA-COS'10)*. Pisa, Italy.
5. 24-25 Sep 2009: *3rd Workshop on Formal Languages for Contract-Oriented Software Development (FLA-COS'09)*. Toledo, Spain.
6. 27-28 Nov 2008: *2nd Workshop on Formal Languages for Contract-Oriented Software Development (FLA-COS'08)*. Malta.

⁶ <http://folk.uio.no/gerardo/nordunet3/index.shtml>.

7. 10-12 Oct 2007: *19th Nordic Workshop on Programming Theory* (NWPT'07). Oslo, Norway.
8. 9-10 Oct 2007: *1st Workshop on Formal Languages for Contract-Oriented Software Development* (FLACOS'07). Oslo, Norway.
9. 6-8 Nov 1996: 1st Symposium in Informatics. University Campus of Vacaria, University of Caxias do Sul, Brazil.

RECENT REFEREEING ACTIVITIES⁷

- International workshops and conferences: Cassis'04, CAV'04, FMICS'04, PDMC'05, FSTTCS'05, HSCC'06, FMOODS'06 (2), FM'06, FCS-ARSPA'06, ATVA'06, Bytecode'07, FORTE'07, ATVA'07, FLACOS'07 (5), NWPT'07, RV'08 (3), FMOODS'08, ICALP'08, SEFM'08 (5), NWPT'08 (7), FLACOS'08 (6), iFM'09, FASE'09, FMOODS/FORTE'09, ADHS'09 (6), FLACOS'09 (4), SEFM'09 (5), ChWFM'09 (3), NWPT'09 (8), WCSI'10, VERIFY'10 (2), SEFM'10 (10), FLACOS'10, SBIA'10, NWPT'10 (7), FMSPLE'10 (3), CSBC-ENIA'11 (2), ICTAC'11 (3), FLACOS'11 (2), NWPT'11 (8), SBIA'12 (2), SEFM'12 (4), FLACOS'12 (2), NWPT'12 (4), NWPT'13 (4), SEFM'13 (4), SEFM'14 (6), NWPT'14 (4), SEFM'15 (3), TTCS'15 (4), NWPT'15 (6), ICTAC'15 (5), TASE'16 (2), iFM'16, IsoLA'16, RV'16, iFM'17, QRS'17 (2), SAC-SVT'17 (3), TTCS'17 (2), RV'17 (2), PrePost'17 (2).
- Journals:
 - International Journal on Software Tools for Technology Transfer (Springer), 2015;
 - Formal Aspects of Computing (Springer), 2011, 2015 (2);
 - Transactions on Software Engineering (TSE, IEEE), 2006;
 - Theoretical Computer Science (Elsevier), 2007, 2008;
 - Journal of Logic and Algebraic Programming (Elsevier), 2008 (2);
 - Mathematical Structures in Computer Science (Cambridge Univ. Press), 2008.
- (Chapters in) Books:
 - The Handbook of Computer Networks (Publisher: John Wiley & Sons, Inc.), 2006;
 - The Handbook of Technology Management (Publisher: John Wiley & Sons, Inc.), 2008.

ACADEMIC AWARDS

- Aug. 1994: got an academic award as the best student of the 1992/1993 Information System Engineering generation course. Universidad Tecnológica Nacional. Concepción del Uruguay, Argentina.

WORK EXPERIENCE⁸

Industry

- Mar 1991 - Mar 1994: Worked as System Analyst in systems design and implementation in Paylana S.A. (Textile Industry - Paysandú, Uruguay).

Academic

- Since Jul 2009: Permanent full-time position at the Department of Computer Science and Engineering, Chalmers | University of Gothenburg, Sweden.⁹ *Full Professor* in Computer Science, since Jul 2014.
- Jan 2009 – Dec 2011: Part-time position as Associate Professor (*førsteamanuensis*) at the Department of Informatics, University of Oslo, Norway.
- Since Apr 2010: Associated Researcher (*Investigador Asociado –Ad honorem*) to the Uruguayan National Research & Innovation Agency (*Asociación Nacional de Investigación e Innovación –ANII*), Uruguay.
- Jan 2005 – Dec 2008: Full time researcher –with 25% of “compulsory service”, including teaching obligations– at the PMA group at the Department of Informatics, University of Oslo.
- Apr. 2004 – Mar. 2005: Worked as a researcher at IRISA/INRIA (CNRS contract –*Chargé de recherche* CR2, CDD). Rennes, France. Worked on verification of Smart Java Cards.
- Jan. 2004 - Apr. 2004: INRIA postdoctoral researcher at IRISA/INRIA. Rennes, France. Worked on verification of Smart Java Cards.

⁷ I am listing here only the review activities done after 2004.

⁸ See Appendix B for a more detailed description. All the jobs listed here were full-time positions.

⁹ I've been Associate Professor (*Universitetslektor*) at the Department of Applied IT Jul 2009–Jul 2010. Till Dec 2011 I have been at the Software Engineering division; have joined the Software Technology division in Jan 2012. Passed the habilitation (*Docent*) in Oct 2010.

- Oct. 2002 - Oct. 2003: Researcher (*Forskare*) at the Department of Information Technology, Uppsala University. Uppsala, Sweden. Worked on verification of infinite-state systems and process algebra.
- Aug. 1997 - Jul. 1998: Assistant Professor (*Professor Adjunto*) in Computer Science at UCPel. Pelotas, Brazil. Besides the teaching activities I was involved in the (co)supervision of many undergraduate students.
- Mar. 1997 - Aug. 1997: Visiting Lecturer (*Professor Visitante*) in Computer Science at UCPel. Pelotas, Brazil.
- Mar. 1996 - Feb. 1997: Coordinator of 'Tecnólogo em Processamento de Dados' course at Núcleo Universitário de Vacaria at UCS. Caxias do Sul, Brazil.
- Mar. 1996 - Feb. 1997: Assistant Professor (*Professor Adjunto*) in Computer Science at UCS. Caxias do Sul, Brazil.

SCHOLARSHIPS

- Oct. 1998 - Jul. 2002: Got a scholarship to work on the ESPRIT project 26270 (VHS, Verification of Hybrid System) to get a PhD degree at VERIMAG (France).
- Mar. 1994 - Mar. 1996: Got a scholarship to get my M.Sc. degree in Computer Science at UFRGS (Universidade Federal do Rio Grande do Sul) in Brazil.
- Mar. 1990 - Oct. 1990: Got a scholarship at E.S.L.A.I. (Escuela Superior Latino-Americana de Informática) in La Plata, Argentina.
- Mar. 1988 - Mar. 1990: Got a scholarship in 'Plan Constelación' to teach Informatics for High School teachers at U.T.N. (Universidad Tecnológica Nacional) in Concepción del Uruguay, Argentina.

FELLOWSHIPS

- Sep. 1997 - Mar. 1998: Worked on Design Techniques for Real-Time Systems using Duration Calculus as a UNU/IIST¹⁰ research fellow in Macau. In particular, I have used an extension of Duration Calculus to give a compositional semantics to the Verilog HDL.

POPULAR WRITING

- I have written a note about model checking, intended for the general public. See <http://folk.uio.no/gerardo/model-checking/What-is-Model-Checking.html>.

RESEARCH VISITS AND INVITED TALKS¹¹

- 1-11 Dec 2017: Visited Ass. Prof. Fernando Schapachnik at UBA (*Universidad de Buenos Aires*), Argentina. Worked on the formalization of normative documents with real-time.
- 26 Nov – 5 Dec 2015: Visited Prof. Gordon Pace's group at the University of Malta, in the context of the EU COST action ARVI. Worked on privacy policies, runtime monitoring, and contract automata.
- 16-19 Mar 2015: Shonan seminar on Static Analysis meets Runtime Verification. Shonan, Japan. Gave a talk on "A framework for static and runtime verification".
- 23-27 Feb 2015: Visited Dr. Daniel Le Métayer at INRIA Rhône-Alpes, France. Worked on privacy issues.
- 28 April – 03 May 2013: Dagstuhl Seminar *VaToMAS - Verification and Testing of Multi-Agent Systems*. Schloss Dagstuhl, Germany. Gave a talk on "On the specification and analysis of contracts (normative texts)".
- 26 Nov – 07 Dec 2012: Visited Prof. Alberto Pardo's group at University of the Republic (UdelaR), Uruguay. Gave a mini-course on "Specification and Verification of Electronic Contracts" (15 hours).
- 22 Jul. - 4 Aug. 2012: Visited Dr. Sergio Yovine at UBA (*Universidad de Buenos Aires*), Argentina. Worked on "Specification and Analysis of Contracts".
- 20 Aug. - 17 Sep. 2011: Visited Dr. Daniel Le Métayer at INRIA Rhône-Alpes, France. Worked on formal methods and risk analysis. Gave a talk on "Towards a framework to analyze contracts in natural language".
- 13 Aug. - 03 Sep. 2010: Visited Dr. Gregor Goessler at INRIA Rhône-Alpes, France. Worked on BIP and contracts. Gave a talk on "Challenges in the Specification of Contracts".
- 7-12 Jan. 2010: Visited Dr. Gordon Pace's group at the University of Malta, Malta.
- 10 Dec. 2009: Visited Dr. Frank van der Linden at Philips Healthcare. Best, The Netherlands.
- 19-25 Apr. 2009 : Visited Prof. Valentín Valero Ruiz at Universidad de Castilla-La Mancha. Albacete, Spain. Gave a mini-course (4 hs) on the "Specification and Analysis of Contracts" and other two related talks.

¹⁰ United Nations University / International Institute for Software Technology

¹¹ Does not include the talks given in Conferences or Workshops.

- 25-30 Apr. 2009 : Visited Prof. Antonio Maña at Universidad de Málaga. Málaga, Spain. Gave a talk on “Challenges in the Specification of Contracts”.
- 11-16 Jan. 2009 : Visited Dr. Gilles Barthe at IMDEA Software. Madrid, Spain.
- 25 Jun. – 06 Jul. 2008: Visited Dr. Gordon Pace’s group at the University of Malta, Malta.
- 6 – 14 May 2008: Visited Prof. Luca de Alfaro at Univ. of California at Santa Cruz, and Univ. of California at Berkeley, USA. Gave a talk in each university on the “Specification and analysis of electronic contracts”.
- 6 Mar. 2008: Gave the talk “Specification and analysis of electronic contracts” at SINTEF. Oslo, Norway.
- 3–22 Dec. 2007: Visited Prof. Alberto Pardo’s group at University of the Republic (UdelaR), Uruguay. Gave a mini-course on Model Checking (15 hours).
- 26 Nov. – 2 Dec. 2007: Visited Andrés Pascal’s group at National Technical University (UTN), Argentina. Gave the tutorial “Use of contracts to govern Internet services exchange” (4 hours).
- 19–25 Nov. 2007: Visited Prof. Héctor Cancela’s group at University of the Republic (UdelaR), Uruguay. Gave the talk “Specification and verification of contracts”.
- 12–18 Nov. 2007: Visited Prof. Victor Braberman’s University of Buenos Aires (UBA), Argentina. Gave the talk “Specification and verification of contracts”.
- 5–11 Nov. 2007: Visited Dr. Marcelo Campo’s group at UNICEN, Argentina.
- 23 Jul. - 02 Aug. 2007: Visited Dr. Gordon Pace’s group at the University of Malta, Malta. Gave a talk on “Towards a formal language for writing e-contracts”.
- 16-23 Jul. 2007: Visited Dr. Julian Bradfield’s group (LFCS) at the University of Edinburgh, Edinburgh, Scotland. Gave a talk on “Towards a formal language for writing e-contracts”.
- 12-13 Jul. 2007: Visited Prof. Marek Sergot’s group at Imperial College, London, UK.
- 03-12 Jun. 2006: Visited Pablo Giambiagi’s group at SICS, Stockholm, Sweden.
- 12-22 Apr. 2006: Visited Dr. Gordon Pace’s group at the University of Malta, Malta. Gave a talk on “Memory consumption analysis for smart cards”.
- 20 Dec. 2005 - 07 Jan. 2006: Visited Pablo Giambiagi’s group at SICS, Stockholm, Sweden.
- 21-28 Feb. 2005: Visited Pablo Giambiagi’s group at SICS, Stockholm, Sweden.
- 6-8 Dec. 2004: Visited Dr. Gilles Barthe’s group at INRIA - Sophia Antipolis, France.
- 29 Nov. - 3 Dec. 2004: Visited Dr. Sergio Yovine’s group at VERIMAG, Grenoble, France.
- 12-15 Oct. 2004: Visited Prof. Olaf Owe’s group at the Department of Informatics, the University of Oslo. Gave a talk on “Memory analysis for Java smart cards”.
- 10-17 Jul. 2004: Visited Prof. Eugene Asarin at LIAFA - University of Paris 7, France.
- 01-15 Dec. 2003: Visited UCPel (*Universidade Católica de Pelotas*), Pelotas, Brazil. Gave the following talks and mini-courses:
 - “Introduction to hybrid systems”
 - “Algorithmic analysis of polygonal hybrid systems”
 - “Computing invariance kernels of polygonal hybrid systems”
 - “On the expressiveness of CCS-like calculi”
 - Mini-course (12 hours): “Models of concurrency”
- 16-30 Nov. 2003: Visited UFRGS (*Universidade Federal do Rio Grande do Sul*) and PUCRS (*Pontifícia Universidade Católica do Rio Grande do Sul*), Porto Alegre, Brazil. Gave the following talks: “An heuristic for verifying safety properties of infinite-state systems” and ‘Algorithmic analysis of polygonal hybrid systems”.
- 8-15 Oct. 2003: Visited Prof. Ron van der Meyden’s group at National ICT Australia (NICTA), Sydney, Australia. Gave a talk on “Algorithmic analysis of polygonal hybrid systems”.
- 1-8 Sep. 2002: Visited Prof. Parosh Abdulla’s group at the Department of Information Technology, Uppsala University. Uppsala, Sweden. Gave a talk on “Algorithmic analysis of polygonal hybrid systems”.
- 12-20 Aug. 2002: Visited Dr. Wan Fokkink’s group at CWI. Amsterdam, The Netherlands. Gave a talk on “Algorithmic analysis of polygonal hybrid systems”.
- 11-13 Aug. 2002: Visited Prof. Veronique Bruyère’s group at the Institute of Computer Science, University of Mons-Hainaut. Mons, Belgique. Gave a talk on “Algorithmic analysis of polygonal hybrid systems”.
- 1-5 Apr. 2002: Visited Prof. Rajeev Alur’s group at the Department of Computer and Information Science, University of Pennsylvania. Philadelphia, USA. Gave a talk on “Algorithmic analysis of polygonal piecewise constant differential inclusions”.
- 28 Mar. 2002: Visited Dr. Michael Lowry’s group at the Automated Software Engineering Group, NASA Ames Research Institute. Moffet Field (CA), USA. Gave a talk on “Algorithmic analysis of polygonal piecewise constant differential inclusions”.

- 21-23 Mar. 2002: Visited Prof. Pravin Varaiya’s group at the Electrical Engineering and Computer Science Department, Berkeley University. Berkeley (CA), USA. Gave a talk on “Algorithmic analysis of polygonal piecewise constant differential inclusions”.
- 5 Nov. 1998: Gave a talk on “Formal Semantics of Verilog using Duration Calculus”, at VERIMAG. Dr. Joseph Sifakis’ group. Grenoble, France.

INVITED TUTORIALS AND COURSES AT SCHOOLS¹²

- Invited lecture on *Monitoring data minimization and other similar hyperproperties* at 2nd ARVI COST School on Runtime Verification. Duration: 1 h. Praz sur Arly, France. 19-21 Mar 2018. URL: https://www.cost-arvi.eu/?page_id=1163.
- Invited mini-course on *Specification and verification of electronic contracts* at the associated school to the 10th International Conference on Software Engineering and Formal Methods (SEFM School). Duration: 5 hs. Thessaloniki, Greece. 24-28 Sep 2012. URL: <http://sefm.iist.unu.edu/School/>
- Invited course on *Languages and tools to specify and verify electronic contracts* at the *Escuela de Ciencias Informáticas*) at the Universidad de Buenos Aires. Duration: 15 hs. Buenos Aires, Argentina. 23-27 Jul 2012. URL: <http://www.dc.uba.ar/events/eci/2012/cursos>
- Invited mini-course on *Specification and verification of e-contracts* at the associated school to the 6th IEEE International Conference on Software Engineering and Formal Methods (SEFM School). Duration: 10 hs. Cape Town, South Africa. Nov 2008. URL: <http://www.iist.unu.edu/SEFM08/School>
- Invited course on the *Application of formal methods to Web services and to the formalization of contracts* within the doctoral programme *Advanced Technologies in Informatics*. Department of Informatics, University of Castilla-La Mancha. Duration: 10 hs. Albacete, Spain. Apr 2009.

OTHER ACADEMIC EXPERIENCE (Teaching assistance, etc.)

- See Appendix C.

LANGUAGES

- Spanish: First language.
- Portuguese: Fluent.
- French: Fluent.
- English: Fluent.
- Italian: Good.
- Swedish: Basic.
- Norwegian: Reading and listening: Good; Speaking and Writing: Basic¹³.

OTHER INTERESTS

I have sporadically been teaching Argentinian tango. My main spare activity nowadays is to spend time with my daughter Sofia and my son Sebastián. Besides, my main interests are to:

- Read books about popular science, general literature (classics, Latin-American, French, etc), politics and economy, philosophy, and tango.
- Dance and practise tango.
- Listen to music: tango, jazz, world music, Brazilian popular music.
- Play football.
- Watch alternative movies.
- Do trekking and ski.

¹² Does not include the talks given in Conferences or Workshops.

¹³ I’ve passed the exam of the highest level of *Norsk for internasjonale studenter, trinn 3* (UiO), and the Bergen test.

A Gerardo Schneider: Publication List

Edited Books and Journals^{14,15}

1. Gilles Barthe, Alberto Pardo, and Gerardo Schneider, editors. *Software Engineering and Formal Methods*, volume 14 of *Journal of Software and System Modeling (SoSyM)*. Springer, February 2015.
2. Gilles Barthe, Alberto Pardo, and Gerardo Schneider, editors. *Software Engineering and Formal Methods*, volume 7041 of *Lecture Notes in Computer Science*. Springer, November 2011.
3. Antonio Brogi and Gerardo Schneider, editors. *Special Section: Formal Languages and Analysis of Contract-Oriented Software (FLACOS'10)*, volume 81(2) of *Journal of Logic and Algebraic Programming*. Elsevier, February 2012.
4. Einar B. Johnsen, Olaf Owe, and Gerardo Schneider, editors. *Special Issue: The 19th Nordic Workshop on Programming Theory (NWPT 2007)*, volume 78(7) of *Journal of Logic and Algebraic Programming*. Elsevier, August/September 2009.
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¹⁴ All the publications can be downloaded from my homepage <http://www.cse.chalmers.se/~gersch/>.

¹⁵ **Referred Contributions in Conference and Workshops Proceedings (peer-reviewed)**
Till 2013 authors are listed alphabetically in almost all my publications, following the French tradition in formal methods, not reflecting the contribution of each author. Due to different publication policies by some of my co-authors the exception to the above are the following 3 papers: the 2013 IEEE TSE journal paper by G. Díaz et al., and the FLACOS'11 and IEEE SCC'10 papers by E. Martínez et al. From 2014, due to a change of publication policies, papers are not necessary in alphabetic order. A co-author contribution statement may be provided upon request.

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1. Gerardo Schneider. Sequential and parallel computation strategies on coherence spaces. Master's thesis, CPGCC – UFRGS, Porto Alegre, Brazil, March 1996. (In Portuguese).
2. Gerardo Schneider. *Algorithmic Analysis of Polygonal Hybrid Systems*. PhD thesis, VERIMAG – UJF, Grenoble, France, July 2002.

Tools

I have participated in the implementation of the following tools:

- **SPeeDI**: Together with Gordon Pace, I have implemented a verification tool for Polygonal Differential Inclusions (SPDI).
- **SPeeDI+**: Together with Gordon Pace, I have extended the tool SPeeDI for computing phase portrait objects of SPDI. <http://www.cs.um.edu.mt/speedi/>

Besides, I have contributed to the conceptual definition and underlying theoretical results for the following tools:

- **AnaCon**: A framework for analysis normative texts written in controlled natural language. <http://www.cse.chalmers.se/~gersch/anacon/>.
- **CLAN**: A tool for automatic detection of conflicts in deontic contracts. Main developer: Stephen Fenech. <http://www.cs.um.edu.mt/svrg/Tools/CLTool>
- **GSPeeDI**: A verification tool for Generalized Polygonal Hybrid Systems (GSPDI). Main developer: Hallstein A. Hansen.
- **LARVA**: A runtime verification platform for runtime verification of critical (real-time) systems. Main developer: Christian Colombo. <http://www.cs.um.edu.mt/svrg/Tools/LARVA/>

B Gerardo Schneider: Work Experience - Detailed Description

Industry

- Mar. 1991 - Mar. 1994: worked as System Engineer in systems design and implementation in Paylana S.A. (Textile Industry - Paysandú, Uruguay). Participated in the development of a Linear Programming model.

Academic

- Since Jul 2009: Permanent full-time position at the Department of Computer Science and Engineering, Chalmers | University of Gothenburg, Sweden.¹⁶ *Full Professor* in Computer Science, since Jul 2014. These are the courses I have been engaged on since I took the position:
 - Spring 2012-2016: “Model-Based Testing” (DIT848 / DAT260). First year, study period 4, Software Engineering Master programme, Chalmers | University of Gothenburg, Sweden. Credits: 7.5 HEC. Role: Responsible/Lecturer. (30-40 students)
 - Spring 2010-2012: “Test and Verification” (TIG034). 4th semester, Software Engineering bachelor programme, Chalmers | University of Gothenburg, Sweden. Credits: 6 HEC. Role: Coordinator/Lecturer. (65-90 students)
 - Spring 2010, 2011: “Technical Challenge Project” (TIA050). 3rd semester Software Engineering Master programme, Chalmers | University of Gothenburg, Sweden. Credits: 15 HEC. Role: Coordinator/Supervisor. (33-60 students)
 - Fall 2009: “Software Architecture for Distributed Systems – Project” (TIG029). A 3rd semester course on the Software Engineering bachelor programme, Chalmers | University of Gothenburg, Sweden. Credits: 15 HEC. Role: Coordinator/Supervisor. (37 students)
 - Fall 2009: “Industrial Challenge Project” (TIA049). 1st semester, Software Engineering Master programme, Chalmers | University of Gothenburg, Sweden. Credits: 15 HEC. Role: Supervisor. (37 students)
 - Fall 2009: “Seminars in Software Engineering” (TIA051). For 1st semester Master students on the Software Engineering programme, Chalmers | University of Gothenburg, Sweden. Credits: 7.5 HEC. Role: Responsible/Lecturer/Supervisor. (40 students)
- Jan 2009 – Dec 2011: Part-time position as Associate Professor (*førsteamanuensis*) at the Department of Informatics, University of Oslo, Norway. I have taught the following course:
 - Spring 2009: “Specification and verification of parallel systems” (INF5140, *Krauspesifikasjon og verifikasjon av parallelle systemer*). A course for M.Sc. and PhD students. Univ. of Oslo, Norway. Role: Responsible/Lecturer.
- Jan. 2005 – Dec. 2008: Full time researcher –with 25% of “compulsory service”, including teaching obligations– at the PMA group at the Department of Informatics, University of Oslo. Courses taught during that period:
 - Fall 2008: “Programming Languages” (INF3110, *Programmeringsspråk*), a 3rd year course on principles (paradigms) of programming languages. Univ. of Oslo, Norway. Role: Lecturer.
 - Spring 2008: “Selected topics on static analysis”, INF5906 A course for M.Sc. and PhD students. Univ. of Oslo, Norway. Role: Lecturer.
 - Spring 2007: “Specification and verification of parallel systems” (INF5140). Univ. of Oslo, Norway. Role: Responsible/Lecturer.
 - Spring 2006: “Specification and verification of parallel systems” (INF5140), Univ. of Oslo, Norway. Role: Responsible/Lecturer.
 - Fall 2005: “Programming Languages” (INF3110/4110, *Programmeringsspråk*), Univ. of Oslo, Norway. Role: Lecturer.
- Apr. 2004 – Mar. 2005: Worked as a researcher at IRISA/INRIA (CNRS contract –*Chargé de recherche* CR2, CDD). Rennes, France. Worked on verification of Smart Java Cards.
- Jan. 2004 - Apr. 2004: INRIA postdoctoral researcher at IRISA/INRIA. Rennes, France. Worked on verification of Smart Java Cards.
- Oct. 2002 - Oct. 2003: Researcher (*Forskare*) at the Department of Information Technology, Uppsala University. Uppsala, Sweden. Worked on verification of infinite-state systems and process algebra.

¹⁶ I’ve been Associate Professor (*Universitetslektor*) at the Department of Applied IT Jul 2009–Jul 2010. Till Dec 2011 I have been at the Software Engineering division; have joined the Software Technology division in Jan 2012. Passed the habilitation (*Docent*) in Oct 2010.

- Aug. 1997 - Jul. 1998: Assistant Professor (*Professor Adjunto*) in Computer Science (Bacharelado em Ciência da Computação). Area: Computation Theory at UCPel (Universidade Católica de Pelotas) in Pelotas, Brazil. Besides the teaching activities I was involved in the (co)supervision of many undergraduate students. I taught the following courses, for which I was the responsible and sole lecturer (I gave the theoretical lectures, and also the practical part)¹⁷:
 - Aug. 1997 - Dec. 1997:
 - * Data Structures (*Estrutura de dados*), 68 hours
 - * Formal Languages and Automata Theory (*Linguagens formais e autômatos*), 3 groups, 34 hours each
 - * Algebraic Structures for Computer Science (*Estruturas algébricas para Computação*), 68 hours
 - Mar. 1998 - Jul. 1998:
 - * Discrete Systems I (*Sistemas discretos I*), 68 hours
 - * Discrete Systems II (*Sistemas discretos II*), 2 groups, 51 hours each
- Mar. 1997 - Aug. 1997: Visiting Lecturer (*Professor Visitante*) in Computer Science (Bacharelado em Ciência da Computação). Area: Computation Theory at UCPel (Universidade Católica de Pelotas) in Pelotas, Brazil.
- Mar. 1996 - Feb. 1997: Coordinator of 'Tecnólogo em Processamento de Dados' course at Núcleo Universitário de Vacaria, U.C.S. (Universidade de Caxias do Sul) in Caxias do Sul, Brazil.
- Mar. 1996 - Feb. 1997: Assistant Professor (*Professor Adjunto*) in Computer Science (Bacharelado em Ciência da Computação). Area: Computation Theory at U.C.S. (Universidade de Caxias do Sul) in Caxias do Sul, Brazil. I taught the following courses, for which I was the responsible and sole lecturer (I gave the theoretical lectures, and also the practical part):
 - Mar. 1996 - Jul. 1996:
 - * Programming (*Programação de Computadores*), 60 hours
 - * Theory of Computing (*Teoria da Computação*), 60 hours
 - Jul. 1996 (Summer Course):
 - * Programming (*Programação de Computadores*), 60 hours
 - Aug. 1996 - Dec. 1996:
 - * Logics for Computer Science (*Lógica para Computação*), 60 hours
 - * Graph Theory (*Teoria de Grafos*), 60 hours
 - * Programming (*Programação de Computadores*), 60 hours
 - * Theory of Computing (*Teoria da Computação*), 60 hours
 - * Formal Specification of Software (*Especificação Formal de Software*), 60 hours

¹⁷ From September 1997 till end of February 1998 I was a research fellow at UNU/IIST, hence I was dispensed of my teaching obligations at the University.

C Gerardo Schneider: Other Academic Experience

- Jan. 2001 - Apr. 2001: Tutor in a Computability course given by Prof. Eugene Asarin at UJF (Université Joseph Fourier), Grenoble, France.
- 26 Jun. 2000 - 07 Jul. 2000: Assistant on
 - “Model Checking”, by Prof. Edmund M. Clarke (Carnegie Mellon University);
 - “Synchronous Programming for Reactive Systems”, by Dr. Pascal Raymond (VERIMAG).At INRIA/CEA/EDF *École d’été de Méthodes Formelles* (Summer School on Formal Methods). Château Le Bréau, France.
- Mar. 1987 - Feb. 1994: Tutor at the System Engineer course at U.T.N. (Universidad Tecnológica Nacional) in Concepción del Uruguay, Argentina. Subjects:
 - Apr. 1993 - Dec. 1993: Tutor in Computing IV (*Ayudante de 2da Interino en Computación IV*)
 - Feb. 1992 - Dec. 1993: Tutor in Models and Simulations II (*Ayudante de 2da Interino en Modelos y Simulación II*)
 - May 1991 - Mar. 1993: Tutor in Computing II (*Ayudante de 2da Interino en Computación II*)
 - Jun. 1989 - Mar. 1990: Tutor in Calculus II (*Ayudante de 2da Interino en Análisis Matemático II*)
 - Mar. 1987 - Jun. 1988: Tutor *ad-honorem* in Programming I (*Ayudante de 2da Ad-honorem en Programación I*)
 - Mar. 1987 - Mar. 1988: Tutor *ad-honorem* in Organisational Structure (*Ayudante de 2da Ad-honorem en Estructura de las Organizaciones*)