

## Curriculum Vitae

### 1 Personal Data

**Last, First and Middle Names:** Areces, Carlos Eduardo.

**Date of Birth:** 21 de Mayo de 1971.

**Academic Postal Address:**

Facultad de Matemática, Astronomía y Física (FaMAF)

Universidad Nacional de Córdoba

Medina Allende s/n, Ciudad Universitaria

(CP 5000). Córdoba, Argentina

**E-mail:** carlos.areces@gmail.com

**WWW:** <http://cs.famaf.unc.edu.ar/~careces/>

**Marital Status:** Married, one daughter.

**Country of Birth:** Argentina.

**Citizen of:** Argentina.

### 2 Degrees Obtained

**1997-2000** PhD. at the University of Amsterdam, The Netherlands. Promotor Prof. Dr. Johan van Benthem. Supervisor Dr. Maarten de Rijke.

**1995-1996** Degree of *Licenciado en Ciencias de la Computación* (this degree is considered equivalent to a Master in Computer Science degree), at the Universidad de Buenos Aires, Argentina. Overall mark: 9.40 over 10. Topic of the thesis: Modal Logic as a Software Engineering Tool. Dissertation mark: 10 over 10.

**1990-1994** Degree of *Analista Universitario de Computación* at the Universidad de Buenos Aires, Argentina.

### 3 Areas of Research

**In Logic:** Computational Logic. Automated Deduction. Model Theory. Algorithmic Complexity. Modal Logic. Description Logics. Knowledge Representation. Artificial Intelligence. Planning.

**In Computational Linguistics:** Natural Language Generation. Generation of Referring Expressions. Dialog Systems. Knowledge Representation for Natural Language Processing.

### 4 Research Experience

**2018** Tinker Visiting Professor, Stanford University.

**2017 – new** Researcher (category: “Principal”), at the Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.

**2016 – now** Full Professor at the Facultad de Matemática, Astronomía, Física y Computación, Universidad Nacional de Córdoba, Argentina.

**2013 – now** Category II in the Programa de Incentivos a Docentes Investigadores de la Presidencia de la Nación.

**2010 – now** Director of the Research Group “Logics, Interaction and Intelligent Systems (LIIS)” at the Facultad de Matemática, Astronomía, Física y Computación, Universidad Nacional de Córdoba, Argentina.

- 2011 – 2017** Researcher (category: “Independiente”), at the Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.
- 2010 – 2016** Associate Professor at the Facultad de Matemática, Astronomía, Física y Computación, Universidad Nacional de Córdoba, Argentina.
- 2003 – 2010** INRIA Researcher (CR1) at LORIA, Laboratoire Lorrain de Recherche en Informatique et ses Applications. This is a permanent position, now on hold.
- 2002 – 2003** Postdoc at the Langue et Dialogue Team (LED), INRIA Lorraine. Member of the “GeNI” Project.  
Project leader: Dr. Claire Gardent
- 2001 – 2002** Postdoc at the Language and Inference Technology Group, University of Amsterdam.  
Project leader: Dr. Maarten de Rijke
- 1998 – 2000** Member of the Logic track of the Amsterdam Computational Logic Group at the WINS Department, University of Amsterdam.  
Director of the group: Dr. Maarten de Rijke
- 1994 – 1996** Member of the research group on Formal Methods at the Department of Computer Science, Universidad de Buenos Aires.  
Directors of the group: Dr. Daniel Yankelevich and Dr. Miguel Felder.
- 1993 – 1996** Member of a multi-disciplinary program composed by researchers from the Computer Science Department, the Philosophy Department, and the Law Department at the Universidad de Buenos Aires.  
Directors of the group: Prof. Carlos Alchourrón and Prof. Gladys Palau.

## 5 Participation in National and International Projects

- 2018 – 2020** Member of the project *Lenguajes 'data-aware' sobre bases de datos estructuradas en grafos*, PICT-MINCYT-2016-0215 (RAICES), ANPCyT, Argentina. 850K pesos.
- 2017 – 2018** Co-director of the project *Optimización de Dominios de Planning*, Programa de Cooperación Científico-Tecnológica entre el Ministerio de Ciencia, Tecnología e Innovación Productiva (MINCYT) and the Deutscher Akademischer Austausch Dienst (DAAD). 220K pesos.
- 2017 – 2017** Co-director of the project *Foundations of Graph Structured Data (FOG)*, STIC-Amsud, Argentina-Chile-Francia. 26K euros.
- 2016 – 2017** Co-director del proyecto *Teoría de Tipos Dependientes: meta-teoría y aplicaciones* del Programa de Cooperación Bilateral Nivel I CONICET (Argentina) / ANII (Uruguay). 100K pesos.
- 2016 – 2017** Co-director of the project *Desarrollo de Material Didáctico, Segundo Ciclo de Primaria*, PROGRAM.AR, Fundación Sadosky y MINCYT. 779K pesos.
- 2015 – 2018** Member of the project *Contenido inteligente y metodologías pedagógicamente sólidas para la enseñanza de programación e informática*, PICT-MINCYT-2014-1833, MINCYT, Argentina. 280K pesos.
- 2014 – 2017** Director of the project *Expresividad en XPath*, PICT-Raíces, ANPCyT, Argentina. 420K pesos.
- 2016 – 2017** Member of the project *Contenido Inteligente para enseñanza de Ciencias de la Computación*, PDTs-CIN-CONICET-2014-172, Co-financed by CIN y CONICET, Argentina. 300K pesos.

- 2015 – 2017** Member of the project *Sistemas de diálogo con aplicaciones en Educación* PID-2013, financed by the Ministerio de Ciencia y Tecnología de la Provincia de Córdoba, Argentina. 60K pesos.
- 2014 – 2017** Member of the project *Intentional Hybrid Logics*, Ministerio Español, España. 35K euros.
- 2014 – 2015** Director of the project *Expresividad de Dominios de Planning y su Optimización*. SeCyT - Universidad Nacional de Córdoba. 30K pesos.
- 2013 – 2014** Member of the project *Diseño racional de cepa vacunal antipoliomielítica con menor probabilidad de reversión a la virulencia*. FONBIO, Gobierno de la Provincia de Córdoba, Argentina.
- 2013 – 2014** Co-Director of the project *MISMT - Modally Inspired SMT*. STIC-Amsud, Argentina-Brasil-Francia. 22K euros.
- 2012 – 2013** Director of the project *Inferencia Dinámica y Aplicaciones*. SeCyT - Universidad Nacional de Córdoba, Argentina. 17K pesos
- 2012 – 2013** Co-Director of the project *Plataforma Chatbot: Motivando a los Jóvenes a Transformarse en Usuarios Creadores de TICs*, Subsidio Secyt-UNC a Proyectos de Innovación y Transferencia Tecnológica, co-financed by Fundación Sadosky, Argentina. 300K pesos.
- 2011 – 2015** Member of the project *MEALS: Mobility between Europe and Argentina applying Logics to Systems*, PEOPLE, Marie Curie Actions, International Research Staff Exchange Scheme, FP7-PEOPLE-2011-IRSES, Europe. 573K euros.
- 2011 – 2014** Director of the project *Simulaciones. Caracterización, Complejidad y Algoritmos Optimizados*, PICT-Bicentenario, ANPCyT, Argentina. 300K pesos.
- 2011 – 2014** Director of the project *Sistemas de Diálogo para Entornos Virtuales*. PICT-PRH, ANPCyT, Argentina. 300K pesos.
- 2010 – 2011** Member of the project *Algoritmos eficientes para el cómputo de bisimulaciones*. UBACyT - Universidad de Buenos Aires, Argentina. 12K pesos.
- 2010** Scholarship for re-localization, PIDRI Bicentenario. 45K pesos.
- 2010 – 2011** Director of the project *Planning sobre Estructuras Relacionales*. SeCyT - Universidad Nacional de Córdoba, Argentina. 15K pesos.
- 2010 – 2012** Member of the project *Nociones de Completitud* in collaboration with the Universidad de Salamanca, España. 10K euros.
- 2009 – 2011** Co-director of the project *Inference Tools for Hybrid Logics and Applications for Natural Language Processing (InToHyLo)*. INRIA Equipés Associées, Francia. 45K euros.
- 2008 – 2010** Director of the project *Parallel Tools for Hybrid Logics (PARLO)*. MISN-TALC, Francia. 13K euros.
- 2008 – 2008** Member of the project *Merging, InduCing and Reasoning with Ontologies in BIOinformatics (Microbio)*. STIC-AMSud, Francia. 5K euros.
- 2008 – 2009** Co-director of the project *Service d'inference pour des systèmes de dialogue*, a cooperation between MINCyT, Argentina and INRIA/CNRS, Francia. 11K euros.

**2006 – 2009** Member of the project *Lógicas para la Red* in collaboration with the Universidad de Salamanca, España. 28K euros.

**2002 – 2004** Co-director of the project *Complex Knowledge Base Classification (CKBC)*. NWO, The Netherlands. 200K euros.

## 6 Scientific Positions

**2016 – now** Co-director of the Doctorado en Ciencias de la Computación of FaMAF, Universidad Nacional de Córdoba.

**2014 – 2016** Member of the Comisión de Especialistas de la Fundación Sadosky.

**2014 – 2015** Director of the Doctorado en Ciencias de la Computación of FaMAF, Universidad Nacional de Córdoba.

**2012 – 2015** Member of the Comisión Evaluadora de la Secretaría de Ciencia y Técnica de la Universidad Nacional de Córdoba.

**2014 – 2015** Member of the Comisión Asesora de Informática y Comunicaciones de CONICET.

**2013** Member of the Comisión ad hoc of the Área Tec. Informática de las Comunicaciones y Electrónica, PICT 2012.

**2012 – 2013** Co-director of the Doctorado en Ciencias de la Computación of FaMAF, Universidad Nacional de Córdoba.

**2012 – 2013** Head of the Comisión Asesora de Computación (CAC) of FaMAF, Universidad Nacional de Córdoba.

**2010 – 2012** Member of the Comisión de Posgrado (CODEPO), Computación, of FaMAF, Universidad Nacional de Córdoba.

**2011 – 2012** Member of the Comisión Asesora de Informática y Comunicaciones de CONICET.

**2007 – 2014** Member of the Steering Committee of Advances in Modal Logic (AiML).

**2007 – 2009** Secretary of the Association for Logic, Language and Information (FoLLI).

**1998 – 2007** Information Officer of the European Association for Logic, Language and Information (FoLLI).

**1999 – 2010** Webmaster of the Hybrid Logics Website: <http://hylo.loria.fr>.

**1999 – 2010** Webmaster of the Method for Modalities Website: <http://m4m.loria.fr>.

## 7 Teaching Positions

**Teaching Experience:** 21 years in 2017.

**4/2015 – now** Full Professor, Universidad Nacional de Córdoba, Facultad de Matemática, Astronomía y Física.

**3/2010 – 4/2015** Associate Professor, Universidad Nacional de Córdoba, Facultad de Matemática, Astronomía y Física.

**9/2005 – 3/2010** Lecturer, Université Henri Poincaré.

**7/1998 – 9/2000** Teaching Assistant, Universiteit van Amsterdam.

**1/1997 – 1/1998** Teaching Assistant, University of Warwick.

- 3/1995 – 3/1998** Teaching Assistant (1st Class), Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Departamento de Computación.
- 3/1994 – 3/1995** Teaching Assistant (2nd Class), Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Departamento de Computación.
- 3/1993 – 3/1994** Teaching Assistant (2nd Class), Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Departamento de Computación.
- 2/1993 – 3/1994** Teaching Assistant (2nd Class), Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Departamento de Computación.
- 4/1992 – 2/1993** Teaching Assistant (2nd Class), Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Departamento de Computación.
- 4/1992 – 2/1993** Teaching Assistant (2nd Class), Universidad de Buenos Aires, Facultad de Ciencias Exactas y Naturales, Departamento de Computación.

## 8 Editorial Possitions

- 2015 – now** Member of the Comité Científico of the Electronic Journal of SADIO.
- 2005 – now** Member of the Scientific Board of The Baltic International Yearbook of Cognition, Logic and Communication.
- 2004 – now** Member of the Editorial Board of the Journal of Applied Logics.
- 2006 – 2010** Member of the Editorial Board de la FoLLI Publications on Logic, Language, and Information (part of the Lecture Notes in Artificial Intelligence series published by Springer-Verlag).
- 2004 – 2010** Member of the Editorial Board of the Journal of Logic, Language and Information.

## 9 Scholarships, Honors and Awards

- 2018** Tinker Visiting Professorship at Stanford University.
- 2003** Best presentation award, ICoS-4, Nancy, France.
- 2000** “ECCAI Grant” to attend ECAI 2000, Berlin, Germany.
- 1999** “NWO Grant” to attend LUATCS’99, Johannesburg, South Africa.  
“Woody Bledsoe Travel Award” to attend CADE’99, Trento, Italy.
- 1997** 5th position in the “IV Concurso CLEI-UNESCO de Tesis de Maestría, Tesis’97”, Valparaíso, Chile.  
One-year Cheavining Scholarship by the British Council to pursue PhD. studies in the United Kingdom.
- 1995** Scholarship to attend DIMACS Summer School on Applied Logic and Algorithms at Rutgers, The State University, USA.
- 1994** UNESCO Scholarship to attend the 2nd Chilean Workshop on Computing in Concepción, Chile.
- 1993** Three-year Research Grant from the Universidad de Buenos Aires. Topic: Existence, Identity and Change in Quantificational Temporal Logics and Applications to Concurrent Processes. Director: Prof. Francisco Naishtat.

## 10 Organization of International Events

- 2018** • Member of the Program Committee of *13th Workshop on Logical and Semantic Frameworks, with Applications (LSFA 2018)*, September 26-28, 2018, Fortaleza, Brasil.
- Member of the Program Committee de la *International Joint Conference on Automated Reasoning (IJCAR18)*, July 14-17, 2018 Oxford, United Kingdom.
- 2017** • Miembro del Program Committee of *DaLi - Dynamic Logic: new trends and applications*, workshop co-located with TABLEAUX, FRODOS and ITP, 23 and 24 September, 2017, Brasília, Brasil.
- Member of the Program Committee of *9th Methods for Modalities 2017 (M4M-17)*, Indian Institute of Technology (IIT), January 8-10, 2017, Kanpur, India.
- Member of the Program Committee of *12th Workshop on Logical and Semantic Frameworks, with Applications (LSFA 2017)*, September 25-29, 2017, Brasília, Brasil.
- Member of the Program Committee of *11th International Symposium on Frontiers of Combining Systems (FroCoS 2017)*, September 25-29, 2017, Brasília, Brasil.
- 2016** • Member of the Program Committee de la *15th International Conference on Principles of Knowledge Representation and Reasoning (KR 2016)*, April 25-29, 2016, Cape Town, South Africa.
- Member of the Program Committee of the *2nd International Workshop on Automated Reasoning in Quantified Non-Classical Logics (ARQNL 2016)*, 1 July 2016, Coimbra, Portugal.
- Member of the Program Committee de la *15th European Conference On Logics In Artificial Intelligence (JELIA 2016)*, April 9-11, Larnaca, Cyprus.
- Member of the Program Committee (Senior) de la *ESSLLI 2016 Student Session*, August 15-26, Bolzano, Italy.
- Member of the Program Committe of the Special Issue TTL2015.
- 2015** • Member of the Program Committee de la *Fourth International Congress on Tools for Teaching Logic*, Rennes, France, June 9-12, 2015.
- Member of the Program Committee de *25th International Conference on Automated Deduction (CADE-25)*, Berling, Alemania, Agosto 2-7, 2015.
- 2014** • Member of the Program Committee de *9th Logical and Semantic Frameworks, with Applications (LSFA 2014)*, Brasília, Brazil, Setiembre 8-9, 2014.
- Member of the Program Committee de *DARe-14: International Workshop on Defeasible and Ampliative Reasoning*, Praga, Republica Checa, Agosto 19, 2014.
- Member of the Program Committee de *14th edition of the European Conference on Logics in Artificial Intelligence (JELIA 2014)*, Madeira, Portugal, Setiembre 24-26, 2014.
- Member of the Program Committee de *Automated Reasoning in Quantified Non-Classical Logics (ARQNL 2014)*, Viena, Austria, Julio 23, 2014.
- Member of the Technical Program Committee of the *Simposio Latinoamericano en Investigacion de Operaciones e Inteligencia Artificial* a organizarse en Montevideo, Uruguay, como parte de la XXXX Conferencia Latinoamericana en Informática (CLEI 2014).
- Member of the Program Committee of the *17th Brazilian Logic Conference (EBL 2014)*, Petrópolis, RJ, April 7-11, 2014.
- Member of the Program Committee of the *XVI Latin-American Symposium on Mathematical Logic (SLALM 2014)*, Buenos Aires, Argentina, Julio 28 - Agosto 1, 2014.
- Member of the Program Committee de *Advances in Modal Logic (AiML14)*, Groningen, The Netherlands, Agosto 5-8, 2014.
- Member of the Program Committee of the *8th International Conference on Formal Ontology in Information Systems (FOIS 2014)*, Rio de Janeiro, Brazil, Setiembre 22-26, 2014.
- 2013** • Member of the Program Committee of the *Latin American Symposium of Operations Research and Artificial Intelligence* en la XXXIX Conferencia Latinoamericana de Informática

- (XXXVII CLEI), Venezuela.
- Member of the Program Committee of the *Latin American Symposium of Theory of Computation en la XXXIX Conferencia Latinoamericana de Informática (XXXVII CLEI)*, Venezuela.
  - Chair of the Program Committee of *Methods for Modalities 2013 (M4M-13)*, June, 2013, Lake Placid, New York, US.
  - Member of the Program Committee de *Automated Deduction: Decidability, Complexity, Tractability (ADDCT'2013)*, 9-14 de June, 2013, Lake Placid, New York, US.
  - General Co-Chair de las Jornadas Argentinas de Informática, September 2013, Córdoba, Argentina.
  - Member of the Program Committee de *Automated Reasoning with Analytic Tableaux and Related Methods (Tableaux 2013)*, September, 2013, Nancy, France.
  - Member of the Program Committee de *9th International Symposium on Frontiers of Combining Systems (FroCoS 2013)*, 18-20 Sep. 2013, Nancy, France.
- 2012**
- Member of the Program Committee de *Symposium on Social Computing, Social Cognition, Social Networks and Multiagent Systems (SNAMAS 2012)*, Birmingham, England, 2-3 July, 2012.
  - Member of the Program Committee de *7th Logical and Semantic Frameworks, with Applications (LSFA 2012)*, Rio de Janeiro, RJ, Brazil, 29th of September, 2012.
  - Member of the Program Committee de *2012 21st Brazilian Symposium on Artificial Intelligence (SBIA 2012)*, Curitiba, Paraná, Brazil, 20-25 October 2012.
  - Member of the Program Committee de *2012 International Workshop on Description Logics (DL2012)*, Rome, Italy.
  - Co-chair of the Local Organizing Committee de *19th Workshop on Logic, Language, Information and Computation (WoLLIC12)*, Buenos Aires, Argentina.
  - Member of the Program Committee de *Advances in Modal Logic (AiML12)*, Copenhagen, Denmark.
  - Member of the Program Committee de *XXXVII Conferencia Latinoamericana de Informática (XXXVII CLEI)*, Quito, Ecuador.
  - Co-chair of the Program Committee de la *11th North American Summer School in Logic, Language and Information (NASSLLI)*, Austin, Texas, USA.
- 2011**
- Organizer of the *2da Escuela de Lingüística Computacional*, Córdoba, Argentina.
  - Member of the Program Committee de *ASAI 2011 Argentine Symposium on Artificial Intelligence*, UTN - Facultad Regional Córdoba, en Córdoba, Argentina, Agosto 29 a Setiembre 30, 2011.
  - Chair de la *2nd. Escuela de Lingüística Computacional (ELiC-2011)*, Universidad Nacional de Córdoba, en Córdoba, Argentina, Agosto 1-4, 2011.
  - Member of the *Program Committee of the 2nd. NLPW Workshop*, Universidad Nacional de Córdoba, en Córdoba, Argentina, Agosto 5-6 2011.
  - Member of the *Program Committee de STIL-2011*, Federal University of Mato Grosso, en Cuiaba, Mato Grosso, Brazil, Octubre 24-26 2011.
  - Member of the Program Committee of the *7th Methods for Modalities Workshop (M4M7)*, Osuna, Spain.
  - Member of the Program Committee of the *2011 International Workshop on Description Logics (DL2011)*, Barcelona, Spain.
  - Member of the Program Committee de la *Third International Congress on Tools for Teaching Logic*, Salamanca, Spain.
- 2010**
- Member of the Organizing Committee of the *Workshop on NLP and Web-based technologies* organizado en conjunción con IBERAMIA 2010, Bahía Blanca, Argentina.
  - Member of the Program Committee de la *36th Latin American Conference of Informatics*, Asunción, Paraguay.
  - Member of the Program Committee of the *2010 Workshop on Hybrid Logics (HyLo 10)*,

- Edinburgh, United Kingdom.
- Member of the Program Committee de la *1era Escuela de Lingüística Computacional (ELiC-1)*, Buenos Aires, Argentina.
  - Member of the Program Committee of the *2010 International Workshop on Description Logics (DL2010)*, Waterloo, Canada.
  - Member of the Program Committee de la *International Joint Conference on Automated Reasoning (IJCAR10)* Edinburgh, United Kingdom.
  - Member of the Program Committee de *Advances in Modal Logic (AiML10)* Moscu, Russia.
- 2009**
- Member of the Program Committee de *Automated Deduction: Decidability, Complexity, Tractability Workshop (ADDCT'09)* Montreal, Canada.
  - Co-chair of the Program Committee of the *2009 Workshop on Hybrid Logics (HyLo 09)*, Nancy, France.
  - Member of the Program Committee of the *2009 International Workshop on Description Logics (DL2009)*, Dresden, Germany.
  - Member of the Program Committee of the *6th Methods for Modalities Workshop (M4M6)*, Copenhagen, Denmark.
- 2008**
- Member of the Program Committee of the *Workshop on Complexity, Expressibility, and Decidability in Automated Reasoning (CEDAR08)*, Sydney, Australia.
  - Member of the Program Committee de la *18th European Conference on Artificial Intelligence, ECAI 2008*, Patras, Greece.
  - Member of the Program Committee of the *2008 International Workshop on Description Logics (DL2008)*, Dresden, Germany.
  - Co-chair of the Program Committee of the *Advances in Modal Logic Workshop (AiML)*, Nancy, France.
- 2007**
- Member of the Program Committee de la *2007 Eurolan Summer School (EUROLAN07)*, Iasi, Romania.
  - Co-chair of the Program Committee of the *5th Methods for Modalities Workshop (M4M5)*, Chachan, France.
  - Member of the Program Committee of the *2007 International Workshop on Description Logics (DL2007)*, Brixen-Bressanone, Italy.
  - Member of the Program Committee of the *Noveno Simposio Argentino de Inteligencia Artificial (ASAI 2007)*, Mar of the Plata, Argentina.
  - Member of the Program Committee of the *2007 Workshop on Hybrid Logics (HyLo 07)*, Dublin, Ireland.
- 2006**
- Member of the Program Committee of the *Second International Congress on Tools for Teaching Logics*, Salamanca, Spain.
  - Member of the Organization Committee of the *Panorama des Recherches Incitatives en STIC (PaRISTIC)*, Nancy, France.
  - Member of the Program Committee of the *2006 International Workshop on Description Logics (DL2006)*, Lake district, UK.
  - Member of the Program Committee of the *Campus Multidisciplinar en Percepción e Inteligencia (CMPI-2006)*, Albacete, Spain.
  - Member of the Program Committee de la *Twenty-First National Conference on Artificial Intelligence (AAAI-06)*, Boston, USA.
  - Chair of the Program Committee de la *18th European Summer School in Logic, Language and Information (ESSLLI)*, Málaga, Spain.
  - Member of the Program Committee de *Inference in Computational Semantics (ICoS-5)*, Buxton, England.
  - Member of the Program Committee of the *2006 Workshop on Hybrid Logics (HyLo 06)*, Seattle, Washington 2006.



- 2005** • Member of the Program Committee de *Method for Modalities 4 (M4M-4)*, Berlin, Germany.  
• Member of the Program Committee of the *2005 International Workshop on Description Logics (DL2005)*, Edinburgh, Scotland, UK.
- 2004** • Co-organizador de la *16th European Summer School in Logic, Language and Information (ESSLLI)*, Nancy, France.  
• Member of the Program Committee of the *2004 International Workshop on Description Logics (DL2004)*, Westin Resort and Spa Whistler, British Columbia, Canada.
- 2003** • Co-chair de la *First Nancy Inference Week*, colocando *Methods for Modalities 3 (M4M-3)*, *Inference in Computational Semantics 4 (ICoS-4)* and the *1st Description Logic Day*, Nancy, France.
- 2002** • Co-chair de *HyLo@LICS*, Fourth Workshop on Hybrid Logics, Sponsored by LICS, Copenhagen, Denmark.  
• Member of the Program Committee de la *First European Starting AI Researcher Symposium*, Lyon, France.  
• Member of the Program Committee de la *ESSLLI 2002 Student Session*, Trento, Italy.
- 2001** • Co-chair de *Methods for Modalities 2 (M4M-2)*, Amsterdam, The Netherlands.
- 2000** • Co-organizador de *HyLo 2000*, Second Workshop on Hybrid Logics, Birmingham, United Kingdom.
- 1999** • Co-chair de *Methods for Modalities 1 (M4M-1)*, Amsterdam, The Netherlands.
- 1998** • Member of the Organizing Committee de *Frontiers of Combining Systems (FroCos'98)*, Amsterdam.  
• Co-chair de la Student Session (Logic Track) de ESSLLI'98, Saarbrücken.

## 11 Participation in Workshops and Conferences

- 2017** • Keynote speaker at the 17avo Simposio Latinoamericano de Lógica Matemática (SLALM), Puebla, México, June 26-30, 2017.  
• Invited speaker at the 26th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, September 2017, Brasilia, Brasil.  
• Seminar at the Escuela Argentina de Inteligencia Artificial de la 46th JAIIO, Córdoba, September, Argentina.  
*bullet* Presentaciones en DALI'17, EPIA'17.
- 2016** • One week course at the Rio'16, February 2016, Rio IV, Argentina.  
• Invited talk at JCC'16, October 2016, Rosario, Argentina.  
• Invited talk at FoG Workshop, Bs. As., Argentina, September 2016.  
• Presentations at GanDALF'16, JELIA'16.
- 2015** • Two week course at ESSLLI'15, August 2015, Barcelona, España.
- 2014** • Invited talk at the Logic, Language, Information, Theory and Applications Group, UFRN, Natal, December 2014.  
• Presentations at ICAPS'14, WoLLIC'14, y ICDT'14.
- 2013** • Invited talk at the Verification and Testing of Multi-Agent Systems, Schloss Dagstuhl, Germany, April 28 to May 3.  
• Invited tutorial and talk at the 8th Workshop on Logical and Semantic Frameworks, with Applications, Sao Paulo, Brazil, September 2-3.  
• Invited tutorial at the 4th World Congress and School on Universal Logic, Rio de Janeiro, Brazil, March 29–April 07, 2013.  
• Presentations at SMT'13, LSFA'13, Tableaux'13 and Frocos'13.

- 2012** • Invited talk at the IV Latin American Mathematics Conference, Universidad Nacional de Córdoba, Argentina.
- 2011** • Invited talk at Río 2011, Río Cuarto, Argentina. Invited talk at the XVI EBL - Brazilian Logic Conference, Petrópolis, Brasil.  
• One week invited course at ELiC-2, Córdoba, Argentina.
- 2010** • Once week invited course ELiC-1, Buenos Aires, Argentina.  
• Once week invited course at NASSLLI 2010, Indiana, USA.  
• Invited talk at the JCC 2010, Rosario, Argentina.
- 2009** • One week invited course at the Universidad de Salamanca, Spain.  
• Invited tutorial (4 days) and invited talk at Tbilisi Symposium, Georgia.  
• Invited tutorial (3 days) at the FIRST Autumn School, Copenhagen, Denmark.  
• Presentations at Tableaux'09, Oslo, Norway.
- 2008** • One week invited seminar at the Universidad de Buenos Aires, Argentina.  
• One week invited seminar at the Universidad de Río Cuarto, Argentina.  
• One week invited course at ESSLLI 2008, Hamburg, Germany.  
• One week invited seminar at the Universidad de Córdoba, Argentina.
- 2007** • One week invited seminar at the Universidad de Buenos Aires, Argentina.  
• Invited talk at the Universidad de San Sebastian, Spain.  
• Invited talk at the Student Session 07, ESSLLI 07, Dublin, Ireland.  
• Presentations at M4M'07.
- 2006** • Invited talk at the Universidad de Buenos Aires, Argentina.  
• Intensive course (4 days) at the Universidad de Salamanca, España.  
• Invited talk at the Universidad de Córdoba, Argentina.  
• Invited talk at Manchester University, UK.  
• Invited doctoral course (3 weeks) at the Universidad de Buenos Aires, Argentina.
- 2005** • Invited course (one week) at ECI 2005.  
• Presentation at LPAR'05.
- 2004** • Invited course (one week) at the Universidad de Salamanca, España.  
• Invited course at JALIMI 2004, Rosario, Argentina.
- 2003** • Presentations at DL'03, ICoS'03, DLD'03, HyLo'03, M4M-3.
- 2002** • Presentations at AiML 2002, BNAIC'02, HyLo@LICS.
- 2001** • Curso invitado (un mes) en la Universidad de Buenos Aires.  
• Presentations at HyLo 2001, BNAIC 2001, M4M-2.
- 2000** • Invited talk at the Computational Linguistics Seminar, University of Saarbrücken.  
• Presentations at bencl2000, HyLo 2000, ECAI 2000.
- 1999** • Invited talk at ESSLLI'99.  
• Presentations at CADE'99, HyLo'99, LUATCS'99.
- 1998** • Invited talk at ECI'98.  
• Presentations at ESSLLI'98, WoLLIC'98, DL'98, BR'98.
- 1997** • Presentations at ESSLLI'97.
- 1995** • Presentations at CACiC'99.  
• Participation in the DIMACS Summer School on Applied Logic and Algorithms at Rutgers, The State University, USA.
- 1994** • Participation in the 2nd. Chilean Workshop on Computing in Concepción, Chile.

## 12 Development Projects

- 2014 – now** Split, a pre-processor of planning domains that aims to minimize the number of instantiated actions. Joint work with F. Bustos y M. Dominguez.
- 2007 – now** HTab, an automated theorem prover for hybrid logics based on tableaux. Joint work with G. Hoffmann. Available at <http://www.glyc.dc.uba.ar/intohylo/htab.php>
- 2001 – now** HyLoRes, an automated theorem prover for hybrid logics based on direct resolution. Joint work with J. Heguiabehere and D. Gorín. Available at <http://www.glyc.dc.uba.ar/intohylo/hylores.php>
- 2001 – now** GridTest, Testing Environment for Satisfiability Checking, a collection of scripts for intensive testing of satisfiability checkers, joint work with J. Heguiabehere and D. Gorín Available at <http://www.glyc.dc.uba.ar/intohylo/gridtest.php>
- 2003 – 2005** The Geni Generator, a surface realization tool for natural language generation. Joint work with C. Gardent and E. Kow. Available at <http://projects.haskell.org/GenI/>
- 2002** hGen, a random generator for hybrid formulas. Joint work with J. Heguiabehere and G. Hoffmann. available at <http://www.glyc.dc.uba.ar/intohylo/hgen.php>

## 13 Other Skills

	Reads	Spekas	Writes
<b>Lenguajes:</b>	Spanish <sup>a</sup>	Very Well	Very Well
	English	Very Well	Very Well
	French	Very Well	Well

<sup>a</sup>Mother tongue

**Programming:** C, C++, Pascal, Java, PROLOG, SML, Haskell, Oz, Python, Perl, Tcl/Tk.

**Text Processing:** L<sup>A</sup>T<sub>E</sub>X, HTML, XML.

## 14 Supervision

**CONICET Researchers.** Currently: 4.

- Dr. Franco Luque (assistant researcher, since 2014)
- Dr. Raul Fervari (assistant researcher, since 2016)
- Dr. Guillaume Hoffmann (assistant researcher, since 2016)
- Dr. Beta Zilani (assistant researcher, since 2015)

**Postdoctoral Students.** Currently: 2. Alumni: 5.

**PhD Students.** Currently: 1. Alumni: 6.

- Ongoing Phd Theses:
  - Facundo Bustos, *Optimización de Dominios de Planning*. Universidad Nacional de Córdoba. Expected completion date: December 2018.
- Finished Phd Theses:
  - Raul Fervari, *Relation-Changing Modal Logics*. Universidad Nacional de Córdoba. March 2014.
  - Alejandro Orbe, *Symmetries in Automated Reasoning*. Universidad Nacional de Córdoba. March 2014.
  - Guillaume Hoffmann, *Reasoning Tasks for Hybrid Logics*. Université Henri Poincaré. December, 2011.
  - Paul Bédaride, *Implication Textuelle et Réécriture*. Université Henri Poincaré. October, 2010. (co-directed with Claire Gardent)
  - Daniel Gorín, *Automated Reasoning Techniques for Hybrid Logics*. Co-tutelle between Université Henri Poincaré and Universidad de Buenos Aires. December, 2009.
  - Sergio Mera, *Modal Memory Logics*. Co-tutelle between Université Henri Poincaré and Universidad de Buenos Aires. December, 2009.

**Master Students.** Currently: 0. Alumni: 4.

- Finished in 2006: 2
  - Paul Bedaride “Implication Textuelle et Logiques de Descriptions”, Laboratoire Lorrain de Recherche en Informatique et ses Applications (Co-directed with Claire Gardent)
  - Guillaume Hoffmann “Algorithme des tableaux pour logique hybride avec terminaison” Laboratoire Lorrain de Recherche en Informatique et ses Applications.
- Finished in 2002: 1
  - Bernadette Martínez Hernández “Automated Reasoning with Boolean ABoxes”, Institute for Logic, Language and Information
- Finished in 2000: 1
  - Rafael Accorsi, “Exploring the Behaviour of Feature Interaction via Stable Models”, Institute for Logic, Language and Information

**Final theses Licenciatura en Cs. de la Computación.** Currently: 1. Alumni: 13.

- Finished in 2017: 1
  - Giovanni Rescia, “Simetrías en Lógicas de Descripción”, UNC (co-directed with Ezequiel Orbe)
- Finished in 2016: 1
  - Ezequiel Medina, “Optimización de Dominios de Planning”, Universidad Nacional de Córdoba
- Finished in 2015: 1
  - Mauricio Martel, “On the Undecidability of Relation-Changing Logics”, Universidad Nacional de Río Cuarto
- Finished in 2014: 1
  - Gisela Rossi “Lógicas Modales con datos infinitos”, Universidad Nacional de Córdoba
- Finished in 2013: 2

- Facundo Bustos “Optimización en dominios de planificación”, Universidad Nacional de Córdoba
- Marcio Díaz, “Optimización de la Traducción Funcional para Lógicas Modales”, Universidad Nacional de Córdoba
- Finished in 2010: 1
  - Facundo Carreiro “Caracterización y Definibilidad en Fragmentos Modales de Primer Orden”, Universidad de Buenos Aires
- Finished in 2008: 2
  - Daniel Koile “Complejidad computacional de lógicas híbridas sub-booleanas”, Universidad de Buenos Aires
  - Alejandra Lorenzo “Testing Description Logic Provers on Hybrid Formulas”, Universidad Nacional del Comahue
- Finished in 2006: 1
  - Diego Figueira “Bisimulaciones en Neighbourhood Semantics”, Universidad de Buenos Aires
- Finished in 2005: 2
  - Julian Mendez “Lógicas de Descripción con Chequeo de Modelos Paramétricos”, Universidad de Buenos Aires
  - Luciana Benotti “Planeamiento en un Sistema de Diálogo”, Universidad Nacional del Comahue
- Finished in 2004: 1
  - Daniel Gorín “Resolución con orden y selección para la lógica  $H(@)$ ”, Universidad de Buenos Aires

**Industry Internships.** Currently: 0. Ex-pasantes: 3.

### 15 Doctoral Jury Duty

- 2014** “Dos temas en reescritura: combinadores para cálculos con patrones e isomorfismo de Curry-Howard para la Lógica de Pruebas” by Gabriela Steren. Universidad de Buenos Aires.
- 2014** “Cómputo secuencial eficiente de cotas ajustadas y su impacto en la performance de los análisis de programa basados en SAT” by Pablo Daniel Ponzio. Universidad de Buenos Aires.
- 2014** “Mejoras a la demostración interactiva de propiedades Alloy utilizando SAT-Solving” by Mariano Miguel Moscato. Universidad de Buenos Aires.
- 2013** “Semánticas de procesos para sistemas interactivos y sistemas probabilísticos” by Matias David Lee. Universidad Nacional de Córdoba.
- 2012** “Type-Checking and Normalisation By Evaluation for Dependent Type Systems” by Miguel M. Pagano. Universidad Nacional de Córdoba.
- 2003** “Building Logic Toolboxes” by Juan Martín Heguiabehere. Universiteit van Amsterdam.

## 16 Publications

### 16.1 Five most relevant publications

- [Ch17] Hybrid Logics, C. Areces and B. ten Cate. In Blackburn, P., Wolter, F., and van Benthem, J., editors, *Handbook of Modal Logics*, 2006, 821–868, Elsevier.  
305 cites in Google Scholar a November, 2017. This chapter recapitulates the state of the art in Hybrid Logics until 2006. It includes a historical perspective, and a review of the most important results.
- [J2] Hybrid Logics. Characterization, Interpolation and Complexity, C. Areces, P. Blackburn and M. Marx. *Journal of Symbolic Logic*, Volume 66(3), 977–1010, ASL Press, 2001.  
224 cites in Google Scholar a November, 2017. First complete study of the hybrid logic with the @ and ↓ operators where different characterization results of their expressive power are given, the complexity of different fragments is investigated and a strong interpolation result is proved.
- [B4] Logic Engineering. The Case of Description and Hybrid Logics, C. Areces. PhD Thesis. ILLC, University of Amsterdam, The Netherlands. 2000.  
120 cites in Google Scholar a November, 2017. My doctoral thesis which includes, on the one hand, different results on hybrid logics and, on the other, indicates the relation between these logics and description logics.
- [J9] Keys, Nominals, and Concrete Domains, C. Lutz, C. Areces, I. Horrocks, and U. Sattler. *Journal of Artificial Intelligence Research*, 23:667–726, AAAI Press, 2004.  
105 cites in Google Scholar a November, 2017. Certain description logics combine the representation of knowledge at an abstract level with an interface with particular domains, such as the set of natural numbers and operations on them. In this article, we extend these logics with *key constraints*.
- [C30] Referring Expressions as Formulas of Description Logic, C. Areces, A. Koller, and K. Striegnitz. In *Proceedings of the Fifth International Natural Language Generation Conference - INLG 2008*, Jun 2008, Salt Fork, United States. 2008.  
30 cites in Google Scholar a November, 2017. In this article we show how different notions of simulation can be used for the efficient computation of referential expressions in the area of automatic text generation.

### 16.2 Bibliometric Data

The following bibliometric data have been updated to November, 2017.

	Google	AMiner	Scopus
H Index	21	19	11
Total Cites	2067	2035	504
Counted publications	132	91	52

### 16.3 Books

- [B4] Logic Engineering. The Case of Description and Hybrid Logics, C. Areces. PhD Thesis. ILLC, University of Amsterdam, The Netherlands. 2000.
- [B3] Logics, C. Areces and P. Blackburn. In preparation.
- [B2] Introduction to Computability, C. Areces and P. Blackburn. In preparation.
- [B1] Manual de Ciencias de la Computación, C. Areces et al. In preparation.

**16.4 Edited Volumes**

- [E7] Anales de las 42 JAIIO Jornadas Argentinas de Informática. C. Areces and L. Alonso Alemany (editors), SADIO Sociedad Argentina de Informática. 2013. ISSN 1850-2776.
- [E6] Hybrid Logics. C. Areces and P. Blackburn (editors). Special Issue of the Journal of Applied Logic, Vol.8, Number 4, 2010.
- [E5] Method for Modalities 2007. C. Areces, and S. Demri (editors). Electronic Notes in Theoretical Computer Science, 2008
- [E4] Advances in Modal Logic, Volume 7. C. Areces and R. Goldblatt (editors). College Publications, 2008.
- [E3] Methods for Modalities 3. C. Areces (editor). Special Issue in the Journal of Applied Logics. Elsevier, 2006.
- [E2] Hybrid Logics. C. Areces and P. Blackburn (editors). Special Issue in the Journal of Logic and Computation. Volume 11(5), 2001.
- [E1] Methods for Modalities I. C. Areces, E. Franconi, R. Goré, M. de Rijke, H. Schlingloff (editors). Special Issue in the Logic Journal of the IGPL, Volume 8(3). 2000.

**16.5 Journal Articles (Refereed)**

- [J26] The Lattice of Congruences of a Finite Linear Frame. C. Areces, M. Campercholi, D. Penazzi and P. Sánchez Terraf, *Journal of Logic and Computation*, Oxford Journals, 2016.
- [J25] The Modal Logic of Copy and Remove. C. Areces, H. van Ditmarsch, R. Fervari, and F. Schwarzentruher, *Information and Computation*, Elsevier, 2015.
- [J24] Relation-changing modal operators. C. Areces, R. Fervari, and G. Hoffmann, *Logic Journal of the IGPL*, 23(4):601–627, Oxford University Press, 2015.
- [J23] Symmetries in Modal Logics. C. Areces and E. Orbe, *Bulletin of Symbolic Logic*, ASL Press, 2015.
- [J22] Symmetric blocking. C. Areces and E. Orbe, *Theoretical Computer Science*, Elsevier, 2015.
- [J21] Model Theory of XPath on Data Trees. Part I: Bisimulation and Characterization. D. Figueira, S. Figueira, and C. Areces, *Journal of Artificial Intelligence Research*, 53:271–314, AAAI Press, 2015.
- [J20] Characterization, Definability and Separation via Saturated Models. C. Areces, F. Carreiro, and S. Figueira, *Theoretical Computer Science*, 537:72–86, Elsevier, 2014.
- [J19] Swap Logic. C. Areces, R. Fervari, R., and G. Hoffmann, *Logic Journal of the IGPL*, 22(2):309–332, Oxford University Press, 2014.
- [J18] Completeness in Hybrid Type Theory. C. Areces, P. Blackburn, A. Huertas, and M. Manzano, *Journal of Philosophical Logic*, 43(2–3):209–238, Springer, 2014.
- [J17] Report on the 19th Workshop on Logic, Language, Information and Computation (WoLLIC 2012). L. Ong, , C. Areces, S. Figueira, and R. de Queiroz. *The Bulletin of Symbolic Logic*, 19(3):425–426, 2013.
- [J16] Completeness Results for Memory Logics, C. Areces, S. Figueira, and S. Mera. *Annals of Pure and Applied Logic*, 163(7):961–972, Elsevier, 2012.
- [J15] Unsorted Functional Translations. C. Areces and D. Gorín, *Electronic Notes in Theoretical Computer Science*, 278:3–16, Elsevier, 2011. Proceedings of the 7th Workshop on Methods for Modalities (M4M 2011)

- [J14] The Expressive Power of Memory Logics, C. Areces, D. Figueira, S. Figueira and S. Mera. *The Review of Symbolic Logic*, 4(2):290–318, Cambridge University Press, 2011.
- [J13] Hybrid Type Theory: A Quartet in Four Movements. C. Areces, P. Blackburn, A. Huertas and M. Manzano, *Principia*, 15:225–247, Núcleo de Epistemología e Lógica, 2011.
- [J12] Resolution with Order and Selection for Hybrid Logics, C. Areces and D. Gorín. *Journal of Automated Reasoning*, 46(1):1–42, Springer, 2011.
- [J11] Coinductive Models and Normal Forms for Modal Logics, C. Areces and D. Gorín. *Journal of Applied Logics*, 8(4):305–318, Elsevier, 2010.
- [J10] Elija su Propia Lógica. Areces, C. *Azafea: Revista de Filosofía*, 8:71–83, 2006.
- [J9] Keys, Nominals, and Concrete Domains, C. Lutz, C. Areces, I. Horrocks, and U. Sattler. *Journal of Artificial Intelligence Research*, 23:667–726, AAAI Press, 2004.
- [J8] Analyzing the Core of Categorical Grammar, C. Areces and R. Bernardi. *Journal of Logic, Language and Information*, 13(2):121–137, Springer, 2004.
- [J7] Galois Connections in Categorical Type Logic, C. Areces, R. Bernardi, M. Moortgat. *Electronic Notes in Theoretical Computer Science*, Volume 53, 3–20, Elsevier, 2004
- [J6] Repairing the Interpolation Theorem in Quantified Modal Logic, C. Areces, P. Blackburn and M. Marx. In *Annals of Pure and Applied Logic*, Volume 124, 287–299, Elsevier, 2003.
- [J5] Bringing them all Together, C. Areces and P. Blackburn. *Journal of Logic and Computation*, Volume 11(5), 657–669, Oxford University Press, 2001.
- [J4] Resolution in Modal, Description and Hybrid Logic, C. Areces, H. de Nivelle and M. de Rijke. *Journal of Logic and Computation*, Volume 11(5), 717–736, Oxford University Press, 2001.
- [J3] The Computational Complexity of Hybrid Temporal Logics, C. Areces, P. Blackburn and M. Marx. *Logic Journal of the IGPL*, Volume 8(5), 653–679, Oxford University Press, 2000.
- [J2] Hybrid Logics. Characterization, Interpolation and Complexity, C. Areces, P. Blackburn and M. Marx. *Journal of Symbolic Logic*, Volume 66(3), 977–1010, ASL Press, 2001.
- [J1] Failure of Interpolation in Combined Modal Logics, C. Areces and M. Marx. *Notre Dame Journal of Formal Logic*, Volume 39(2), 253–273, Duke University Press, 1998.

#### 16.6 Chapters in Collections (Refereed)

- [Ch39] Tableaux for Hybrid XPath with Data. C. Areces, R. Fervari, N. Seiler. En “Progress in Artificial Intelligence,” E. Oliveira, J. Gama, Z. Vale, H. Lopes Cardoso (Eds.), Volume 10423 de Lecture Notes in Computer Science, Springer 2017, pp. 611–623. ISBN 978-3-319-65339-6.
- [Ch38] Algoritmos. C. Areces. En “Manual de Actividades Segundo Ciclo de Primaria”. Fundación Sadosky, Colihue, 2017.
- [Ch37] Primeros Programas. C. Areces. En “Manual de Actividades Segundo Ciclo de Primaria”. Fundación Sadosky, Colihue, 2017.
- [Ch36] Hilbert-Style Axiomatization for Hybrid XPath with Data. C. Areces y R. Fervari. En “Logics in Artificial Intelligence,” L. Michael y A. Kakas (Eds.), Volume 10021 de Lecture Notes in Computer Science, pp. 34–48. ISBN 978-3-319-48757-1.



- [Ch35] Ciencias de la Computación. C. Areces. En “Estado y Perspectivas de las Ciencias Exactas, Físicas y Naturales en la Argentina”, Ministerio de Ciencia, Tecnología e Innovación Productiva de la Nación, 2015. ISBN 978-987-98313-9-7.
- [Ch34] Modal Satisfiability via SMT Solving. C. Areces, P. Fontaine, and S. Merz, In R. De Nicola, and R. Hennicker, R., editors, *Software, Services, and Systems, Lecture Notes in Computer Science*, Volume 8950, pp. 30–45, Springer International Publishing, 2015. ISBN 978-3-319-15544-9.
- [Ch33] Basic Model Theory of XPath on Data Trees. D. Figueira, S. Figueira and C. Areces. In *Proceedings of ICDT: 17th International Conference on Database Theory*, Athens, Greece, March 24-28, 2014. ISBN 978-3-893180-66-1.
- [Ch32] Optimizing Planning Domains by Automatic Action Schema Splitting. C. Areces, F. Bustos, M. Dominguez, and J. Hoffmann. In *Proceedings of the 24th International Conference on Automated Planning and Scheduling (ICAPS’14)*, Portsmouth, NH, USA, 2014. ISBN 978-1-57735-609-7.
- [Ch31] Logics with Copy and Remove. C. Areces, H. van Ditmarsch, R. Fervari and F. Schwarzentruer. In *Proceedings of the 21st Workshop on Logic, Language, Information and Computation (WoLLIC’14)*, Valparaíso, Chile, 2014. ISBN 978-3-662-44144-2.
- [Ch30] Tableaux for Relation-Changing Modal Logics. C. Areces, R. Fervari, and G. Hoffmann. In *Proceedings of Frontiers of Combining Systems 2013*, Nancy, France, September 2013, ISBN 978-3-642-40884-7.
- [Ch29] Dealing with Symmetries in Modal Tableaux. C. Areces and E. Orbe. In *Proceedings of Automated Reasoning with Analytic Tableaux and Related Methods (Tableaux’13)*, Nancy, France, September 2013. ISBN 978-3-642-40536-5.
- [Ch28] Moving Arrows and Four Model Checking Results, Areces, C., Fervari, R., and Hoffmann, G. in *Proceedings of WoLLIC 2012*, Buenos Aires, Argentina, September 2012. ISBN 978-3-642-32620-2.
- [Ch27] iSat: Structure Visualization for SAT Problems, Orbe, E., Areces, C. and Infante-López, G. 18th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR-18), Mérida, Venezuela, 10-15 March, 2012. ISBN 978-3-642-28716-9.
- [Ch26] Basic Model Theory for Memory Logics, C. Areces, F. Carreiro, S. Figueira and S. Mera. *Proceedings of WoLLIC 2011*, Philadelphia, USA, 2011. ISBN 978-3-642-20919-2.
- [Ch25] Using Logic in the Generation of Referring Expressions, C. Areces, S. Figueira, and D. Gorín. In *Proceedings of LACL 2011*, páginas 17–32, Montpellier, France, 2011. ISBN 978-3-642-22220-7.
- [Ch24] Combining theories: the Ackerman and Guarded Fragments, C. Areces and P. Fontaine. *Proceeding of FRODOS 2011*, páginas 40–54, Saarbruecken, Germany, 2011. ISBN 978-3-642-24363-9.
- [Ch23] Modal Logic with Counting, C. Areces, G. Hoffmann and A. Denis. In *Proceedings of WoLLIC’10*, Brasilia, Brasil, 2010. ISBN 978-3-642-13823-2.
- [Ch22] Tableaux and Model Checking for Memory Logics, C. Areces, D. Figueira, D. Gorín, and S. Mera. In *Proceedings of Tableaux’09*, Oslo, Norway, 6-10 July, 2009. ISBN 978-3-642-02715-4.
- [Ch21] Completeness Results for Memory Logics, C. Areces, S. Figueira, and S. Mera. In *Proceedings of LFCS’09, the Symposium on Logica Foundations of Computer Science*, Deerfield Beach, Florida, USA, 2008. ISBN 978-3-540-92686-3.

- [Ch20] Which Semantics for Neighbourhood Semantics? C. Areces and D. Figueira. In Proceedings of IJCAI'09, Pasadena, CA, USA, 11-17 July, 2009. ISBN 978-1-57735-426-0.
- [Ch19] Expressive Power and Decidability for Memory Logics, C. Areces, D. Figueira, S. Figueira, and S. Mera. In Proceedings of WoLLIC 2008, 2008. ISBN 978-3-540-69936-1.
- [Ch18] Hybrid Logics: The Old and the New, C. Areces. In Proceedings of LogKCA-07, November 2007. ISBN 978-8-498600-22-3.
- [Ch17] Hybrid Logics, C. Areces and B. ten Cate. In Blackburn, P., Wolter, F., and van Benthem, J., editors, Handbook of Modal Logics, 2006. Elsevier. ISBN 978-0-080466-66-8.
- [Ch16] Reichenbach, Prior and Montague: A semantic get-together, C. Areces and P. Blackburn. In S. Artemov, H. Barringer, A. d'Avila Garcez, L. Lamb, and J. Woods. editors, We will show them: Essays in honour of Dov Gabbay, College Publications, 2005. ISBN 1-904987-25-7.
- [Ch15] Ordered Resolution with Selection for H(@). C. Areces and D. Gorín. In Proceedings of LPAR 2004, 125–141, Springer, Montevideo, Uruguay, 2005. ISBN 3-540-25236-3.
- [Ch14] Controlled model exploration, C. Areces, G. Infante-López and M. de Rijke. In Advances in Modal Logic, 1–16, World Scientific Publishing Co. Pte. Ltd., 2003. ISBN 0-954300-62-9.
- [Ch13] Keys, Nominals and Concrete Domains, C. Areces, I. Horrocks, C. Lutz and U. Sattler, In Proceedings of IJCAI, Mexico. 2003. ISBN 9-780-127056-61-6.
- [Ch12] HyLoRes 1.0: Direct Resolution for Hybrid Logics, C. Areces and J. Heguiabehere. In Proceedings of CADE-18. Copenhagen, Denmark. July 2002. ISBN 3-540-43931-5.
- [Ch11] Interpolation, Definability and Fixed Points in Interpretability Logics, C. Areces, Eq. Hoogland and D. de Jongh. In Advances in Modal Logic, Volume 2, edited by K. Segerberg, M. Zakharyashev, M. de Rijke, and H. Wansing. CSLI Publications, 35–58. 2001. ISBN 1-57586-271-9.
- [Ch10] From Description to Hybrid Logics, and Back, C. Areces and M. de Rijke. In Advances in Modal Logic, Volume 3, edited by F. Wolter, H. Wansing, M. de Rijke, and M. Zakharyashev. CSLI Publications. ISBN 978-981-238-179-8.
- [Ch9] Iterable AGM Functions, C. Areces and V. Becher. In Frontiers in Belief Revision, edited by H. Rott and M. Williams. Kluwer Academic Publishers, 261–277. 2001 ISBN 978-90-481-5720-4.
- [Ch8] Repairing the Interpolation Theorem in First-Order Modal Logic. Areces, C., Blackburn, P., and Marx, M. In Proceedings of the 16th Annual IEEE Symp. on Logic in Computer Science, LICS 2001, IEEE Computer Society Press, June 2001. ISBN 978-076951-281-5.
- [Ch7] Tree-Based Heuristics in Modal Theorem Proving, C. Areces, R. Gennari, J. Heguiabehere and M. de Rijke. In Proceedings of ECAI 2000, Berlin, Germany. 2000. ISBN 978-1-58603-013-1.
- [Ch6] Characterization Results for d-Horn Formulas, C. Areces, V. Becher and S. Ferro. In Logic, Language and Computation: Volume 3, edited by L. Cavedon, P. Blackburn, N. Braisby, and A. Shimojima. CSLI Publications, 49–66. 2000. ISBN 978-1-575862-68-2.
- [Ch5] Fragmentary Memories, C. Areces. In J. Gerbrandy, M. Marx, M. de Rijke, and Y. Venema, editors, JFAK. Essays Dedicated to Johan van Benthem on the Occasion of his 50th Birthday, Vossiuspers, AUP, Amsterdam, 1999. ISBN 90-5629-104-1.
- [Ch4] A Road-map on Complexity for Hybrid Logics, C. Areces, P. Blackburn and M. Marx. In Proceedings of CSL'99, Madrid, Spain. 1999. ISBN 978-3-540-66536-6.

- [Ch3] Prefixed Resolution: A resolution method for modal and description logics, C. Areces, H. de Nivelle and M. de Rijke. In Proceedings of CADE'99. Trento. Italy. 1999. ISBN 978-3-540-66222-8.
- [Ch2] The Guarded Fragment: Ins and Outs, C. Areces, C. Monz, H. de Nivelle, and M. de Rijke. In J. Gerbrandy, M. Marx, M. de Rijke, and Y. Venema, editors, JFAK. Essays Dedicated to Johan van Benthem on the Occasion of his 50th Birthday, Vossiuspers, AUP, Amsterdam, 1999. ISBN 90-5629-104-1.
- [Ch1] Modal Logic as a Design Notation (position paper), C. Areces, M. Felder, D. Hirsch and D. Yankelevich. In Proceedings of the 9th International Workshop on Software Specification and Design (IWSSD9). Ise-Shima, Japan, pages 150-152, April, 1998. ISBN 0-8186-8439-9.

#### 16.7 Conference Papers (Refereed)

- [C38] Undecidability of Relation-Changing Modal Logics. C. Areces, R. Fervari, G. Hoffmann, and M. Martel, In Proceedings of Workshop DaLí - Dynamic Logic: new trends and applications, Brasília, Brazil, September, 2017.
- [C37] Relation-Changing Logics as Fragments of Hybrid Logics. C. Areces, R. Fervari, G. Hoffmann and M. Martel. In Proceedings of the Seventh International Symposium on Games, Automata, Logics and Formal Verification (GandALF 2016), D. Cantone and G. Delzannopp (Eds), pp. 16–29, Catania, Italy, September 2016.
- [C36] SyMT: finding symmetries in SMT formulas. C. Areces, D. Deharbe, P. Fontaine, and E. Orbe. In Proceedings of the 11th International Workshop on Satisfiability Modulo Theories, Helsinki, Finland, July 2013.
- [C35] Probabilistic Refinement Algorithms for the Generation of Referring Expressions, Altamirano, R., Areces, C., and Benotti, L. in Proceedings of the 24th International Conference on Computational Linguistics (COLING 2012), Mumbai, India, December 2012.
- [C34] Symmetries in Modal Logics: A Coinductive Approach, Areces, C., Hoffmann, G., and Orbe, E. in Proceedings of the 7th Workshop on Logical and Semantic Frameworks, with Applications (LSFA 2012), Rio de Janeiro, September 2012.
- [C33] The Bird of the Hybrid Type Theory, Blackburn, P., Manzano, M., Areces, C., Huertas, A. 4th Congress of Logic, Methodology and Philosophy of Science. Nancy, France, 19-26 July, 2011.
- [C32] Dialogue Systems for Virtual Environments, L. Benotti, P. Estrella and C. Areces. In Proceedings of the NAACL-HLT 2010 Young Investigators Workshop on Computational Approaches to Languages of the Americas, Los Angeles, US, 6 June, 2010.
- [C31] Testing Provers on a Grid - Framework Description, C. Areces, D. Gorín, A. Lorenzo, and M. Pérez Rodríguez. In Proceedings of the 22nd International Workshop on Description Logics (DL 2009), CEUR-WS.org, 2009.
- [C30] Referring Expressions as Formulas of Description Logic, C. Areces, A. Koller, and K. Striegnitz. In Proceedings of INLG08, 2008.
- [C29] HTab: A Terminating Tableaux System for Hybrid Logic, G. Hoffmann and C. Areces. In Proceedings of Methods for Modalities 5, November 2007.
- [C28] Experiments in Theorem Proving for Topological Hybrid Logic, D. Sustretov, G. Hoffmann, C. Areces and P. Blackburn. In Proceedings of Methods for Modalities 5, November 2007.
- [C27] In Situ Binding: A Hybrid Approach, C. Areces and R. Bernardi. In Proceedings of ICoS-4, Nancy, France. 2003.

- [C26] Handling Boolean ABoxes, C. Areces, P. Blackburn and M. Marx. In Proceedings of DL'03, Rome, Italy. 2003
- [C25] hGen: A Random CNF Formula Generator for Hybrid Languages, C. Areces and J. Heguiabehere. In Proceedings of M4M-3, Nancy, France. 2003.
- [C24] Concrete Domain and Nominals United, C. Areces and C. Lutz. In Proceedings of HyLo@LICS. Copenhagen, Denmark. July 2002.
- [C23] Direct Resolution for Modal-like Logics, C. Areces and J. Heguiabehere. In Proceedings of the 3rd International Workshop on the Implementation of Logics. Tbilisi, Georgia. October 2002.
- [C22] HyLoRes: A Hybrid Logic Prover Based on Direct Resolution, C. Areces and J. Heguiabehere. In Proceedings of AiML 2002, Advances in Modal Logic. Toulouse, France. October 2002.
- [C21] Decomposing Modal Logic, C. Areces, G. Infante-López and M. de Rijke. In Proceedings of AiML 2002, Advances in Modal Logic. Toulouse, France. October 2002.
- [C20] HyLoRes: A Hybrid Logic Prover Based on Direct Resolution (System Demo), C. Areces and J. Heguiabehere. In Proceedings of BNAIC 2002, 14th Belgian-Dutch Conference on Artificial Intelligence. Leuven, Belgium. October 2002.
- [C19] Analyzing the Core of Categorical Grammar, C. Areces and R. Bernardi. In Proceedings of ICoS-3. Siena, Italy. June 2001.
- [C18] Galois Connections in Categorical Type Logic, C. Areces, R. Bernardi, M. Moortgat. In Proceedings of Mathematics of Language and Formal Grammar 2001. Helsinki, Finland. Augustus 2001.
- [C17] HyLoRes: Direct Resolution for Hybrid Logics, C. Areces and J. Heguiabehere. In Proceedings of Methods for Modalities 2. Amsterdam, The Netherlands. November 2001.
- [C16] Features as Constraints, R. Accorsi, C. Areces, W. Bouma and M. de Rijke. In Proceedings of FIW'2000, Glasgow, UK. 2000.
- [C15] Description and/or Hybrid Logics, C. Areces, and M. de Rijke. In Proceedings of AiML 2000, Leipzig, Germany. 2000.
- [C14] Spatial Reasoning for Image Retrieval, M. Aiello, C. Areces, and M. de Rijke. In Proceeding of DL'99, the International Workshop on Description Logics, Linköping, Sweden. July 30 - August 1, 1999.
- [C13] Update, the Infinite Case, C. Areces and V. Becher. In Proceedings of WAIT'99, Argentinian Workshop on Theoretical Computer Science, Buenos Aires, Argentina. 1999.
- [C12] Hybrid Logic is the Bounded Fragment of First Order Logic, C. Areces, P. Blackburn and M. Marx. In Proceedings of WoLLIC'99, Workshop of Logic, Language, Information and Computation, Rio de Janeiro, Brazil, pages 33-50, 1999.
- [C11] Description Logics and Feature Interaction, C. Areces, W. Bouma and M. de Rijke. In Proceeding of DL'99, the International Workshop on Description Logics, Linköping, Sweden. July 30 - August 1, 1999.
- [C10] Feature Interaction as a Satisfiability Problem, C. Areces, W. Bouma and M. de Rijke. In Proceedings of MASCOTS'99, Maryland, USA. 1999.
- [C9] Towards Feature Interaction via Stable Models, R. Accorsi, C. Areces and M. de Rijke. In Proceedings of the 2nd WFM, Florianópolis, Brasil. 1999.

- [C8] Iterable AGM Functions, C. Areces and V. Becher. In Proceedings of BR'98. Belief Revision Workshop, Trento, Italy, 1998.
- [C7] Characterization Results for d-Horn Formulas, C. Areces, V. Becher and S. Ferro. In Proceedings of ITALLC'98. Information Theoretic Approaches to Logic, Language and Computation. Hsi-Tow, Taiwan, 1998.
- [C6] Interpolation and Bisimulation in Temporal Logic, C. Areces and M. de Rijke. In Proceedings of WoLLIC'98. Workshop of Logic, Language, Information and Computation., IME/USP, Sao Paulo, Brazil, pages 15-21, 1998.
- [C5] The Interpolation Theorem for IL and ILP, C. Areces, D. de Jongh and E. Hoogland. In Proceedings of AiML98. Advances in Modal Logic. Uppsala University. Uppsala. Sweden. 1998
- [C4] Expressiveness Revisited, C. Areces and M. de Rijke. In E. Franconi, G. De Giacomo, R. MacGregor, W. Nutt, C. Welty, editors, Proceedings of the International Workshop on Description Logics (DL'98), Trento, Italy, pages 35-43, 1998.
- [C3] Modal Logic as a Design Notation, C. Areces, M. Felder, D. Hirsch and D. Yankelevich, In Proceedings of the 1st KIT125 Workshop. Como, Italy, pages 93- 108, 1997.
- [C2] On the Logic For Utopia, C. Areces and V. Becher, In the Annals of the 1st CACiC, Bahía Blanca, Argentina, 1995.
- [C1] From Boxes to Worlds, C. Areces and D. Hirsch, D. In Proceedings of the First CACiC, Bahía Blanca, Argentina, 1995.

**16.8 Other**

- [O2] A Note about Modal Symmetries, Orbe, E., Areces, C. and Infante Lopez, G. Serie A. Trabajos de Informática, Nro 6/2012, Facultad De Matemática, Astronomía y Física, Universidad Nacional de Córdoba. 2012. (Non refereed).
- [O1] Analytic AGM Revision, C. Areces and V. Becher, Technical Report CDMTCS-138, CDMTCS Research Report Series, Centre for Discrete Mathematics and Theoretical Computer Science, The University of Auckland, 2000. (Non refereed).

Total number of publications: 116