

## Curriculum Vitae

### 1 Personal Data

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

**Date of Birth:** May 21st, 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

**2017 – now** 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.

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

- 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

- 2025** Co-director of the Project, *Proof Representations: From Theory to Applications*, Banff International Research Station (Alberta, Canada). Full funds for the organization of 6 day long Seminar for 42 on-site and up to 300 virtual participants. June 1-6, 2025.
- 2024 – 2026** Director of the Project, *Planning y Operadores Dinámicos*. SeCyT - Universidad Nacional de Córdoba, Argentina.
- 2024 – 2025** Director of the Project, *Dynamic Logics (Reloaded)*,  $DL(R)$ , STIC-Amsud number 23-STIC-07, Argentina-Brazil-Francia. 70K euros.
- 2024** Co-director of the Project, *Proof Representations: From Theory to Applications*, Dagstuhl Seminar, SCHLOSS DAGSTUHL, Leibniz-Zentrum für Informatik, Germany. Full funds for the organization of 5 day long Seminar for aprox. 45 participants.
- 2022 – 2023** Director of the Project, *Análisis y clasificación de errores, preguntas y respuestas en espacios virtuales de formación profesional sobre desarrollo de software*, Fundación Sadosky, Argentina. 5290K pesos.
- 2022 – 2025** Director of the Project, *Lógicas Dinámicas para Acción*, PICT-2020-SERIEA-03780, ANPCyT, Argentina. 3249K pesos.
- 2021 – 2023** Director of the Project, *Planes, Acciones y Lenguajes Dinámicos*, PIP 2021-2023, Código 11220200100812CO, CONICET, Argentina. 1825K pesos.

- 2020 – 2021** Director of the Project, *Dynamic Logics: Model Theory, Proof Theory and Computational Complexity (DyLo-MPC)*, STIC-Amsud nro. 20-STIC-03, Argentina-Brazil-Francia. 40K euros.
- 2018 – 2021** Director of the Project, *Lenguajes ‘data-aware’ para bases de datos sobre grafos*, SeCyT - Universidad Nacional de Córdoba. 155K pesos.
- 2019 – 2021** Director of the Project, *Lenguajes de consulta ‘data-aware’ para bases de datos sobre grafos*, PID-2018-046, Ministerio de Ciencia y Tecnología de la Provincia de Córdoba. Argentina. 80K pesos.
- 2018 – 2020** Member of the Project, *Lenguajes ‘data-aware’ sobre bases de datos estructuradas en grafos*, PICT-MINCYT-2016-0215 (RAICES), ANPCyT, Argentina. 960K 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.
- 2016 – 2017** Co-director of the Project, *Foundations of Graph Structured Data (FOG)*, STIC-Amsud, Argentina-Chile-Francia. 26K euros.
- 2016 – 2017** Co-director of the Project, *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** Grant 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* 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 Associees, 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 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

- 2023 – 2025** Member, Association for Symbolic Logic (ASL) Committee on Logic in Latin America.
- 2019** Member, Comité de Evaluación de Carreras de Posgrado (Ciencias Básicas y Aplicadas), CONEAU.
- 2018** Member, Comité de Evaluación de Desempeño Docente correspondientes a las áreas de Matemática, Física y Computación, FaMAF-UNC.
- 2016 – 2017** Co-director, Carrera de Doctorado en Ciencias de la Computación de la FaMAF, Universidad Nacional de Córdoba.
- 2014 – 2016** Member, Comisión de Especialistas de la Fundación Sadosky.

- 2014 – 2015** Director, Carrera de Doctorado en Ciencias de la Computación de la FaMAF, Universidad Nacional de Córdoba.
- 2012 – 2015** Member, Comisión Evaluadora de la Secretaría de Ciencia y Técnica de la Universidad Nacional de Córdoba.
- 2014 – 2015** Member, Comisión Asesora de Informática y Comunicaciones de CONICET.
- 2013** Member, Comisión ad hoc del Área Tec. Informática de las Comunicaciones y Electrónica en el marco de la convocatoria PICT 2012.
- 2012 – 2013** Co-director, Carrera de Doctorado en Ciencias de la Computación de la FaMAF, Universidad Nacional de Córdoba.
- 2012 – 2013** Coordinator, Comisión Asesora de Computación (CAC) de la FaMAF, Universidad Nacional de Córdoba.
- 2010 – 2012** Member, Comisión de Posgrado (CODEPO), Computación, de la FaMAF, Universidad Nacional de Córdoba.
- 2011 – 2012** Member, Comisión Asesora de Informática y Comunicaciones de CONICET.
- 2007 – 2014** Member, Steering Committee of Advances in Modal Logic (AiML).
- 2007 – 2009** Secretary, Association for Logic, Language and Information (FoLLI).
- 1998 – 2007** Information Officer, European Association for Logic, Language and Information (FoLLI).
- 1999 – 2010** Webmaster, Hybrid Logics Website: <http://hylo.loria.fr>.
- 1999 – 2010** Webmaster Method for Modalities Website: <http://m4m.loria.fr>.

## 7 Teaching Positions

**Teaching Experience:** 28 years in 2024.

- 1/2019 – now** Full Professor, Universidad Nacional de Córdoba, Facultad de Matemática, Astronomía y Física.
- 10/2021 – 2/2022** Invited Professor, Guangdong Technion – Israel Institute of Technology (GTIIT), Guangdong, China.
- 4/2015 – 12/2018** Full Professor, Universidad Nacional de Córdoba, Facultad de Matemática, Astronomía y Física.
- 3/2018 – 7/2018** Invited Professor, Tinker Visiting Professor, Stanford University, USA.
- 8/2014 – 4/2015** Associate Professor, Universidad Nacional de Córdoba, Facultad de Matemática, Astronomía y Física.
- 3/2010 – 7/2014** 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

- 2025** • Co-organizer, *BIRS Seminar on ‘Proof Representations: From Theory to Applications’*, Alberta, Canada, June 1 - 6, 2025.
- 2024** • Member of the Program Committee, *Knowledge Representation and Reasoning (KRR) track of the 23rd EPIA Conference on Artificial Intelligence*, Viana do Castelo, Portugal, September 3 - 6, 2024.
- Member of the Program Committee, *20th International Conference on Knowledge Representation and Reasoning (KR 2024)*, Hanoi, Vietnam, 2-8 November, 2024.
  - Member of the Program Committee, *International Workshop on Reconfigurable Transition Systems: Semantics, Logics and Applications (ReactS’24)*, Aveiro, Portugal, 5 November 2024.
  - Co-organizer, *Dagstuhl Seminar on ‘Proof Representations: From Theory to Applications’*, Dagstuhl, Germany, August 18 -23, 2024.
- 2023** • Member of the Program Committee, *18th European Conference on Logics in Artificial Intelligence (JELIA 2023)*, Dresden, Germany, 20-22 September 2023.
- Member of the Program Committee, *18th Logical and Semantic Frameworks with Applications Workshop (LSFA 2023)*, an affiliated event of *FSCD 2023*, Rome, Italy, July 3-6, 2023.
  - Member of the Program Committee, *29th International Conference on Automated Deduction (CADE-29)*, an affiliated event of *FSCD 2023*, Rome, Italy, 1-4 July, 2023.
  - Member of the Program Committee, *20th International Conference on Knowledge Representation and Reasoning (KR 2023)*, Rhodes, Greece, September 2-8, 2023.
  - Member of the Program Committee, *The 14th International Symposium on Frontiers of Combining Systems (FROCOS 2023)*, Prage, Czech Republic on September 20-22, 2023.
  - Member of the Program Committee, *20th European Conference on Multi-Agent Systems (EUMAS 2023)*, Naples, Italy, on 14-15 September, 2023.
  - Member of the Program Committee, *5th Workshop on Dynamic Logic: new trends and applications (DaLi 2023)*, Tbilisi, Georgia, 15-16 September 2023.
  - Member of the Program Committee, *32nd International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX 2023)*, Prague, Czech Republic, 18-21 September, 2023.
- 2022** • Member of the Program Committee, *4th International Workshop on Automated Reasoning in Quantified Non-Classical Logics (ARQNL 2022)*, Haifa, Israel, August 11th, 2022.
- Member of the Program Committee, *International Joint Conference on Automated Reasoning 2022 (IJCAR’22)*, Haifa, Israel, August 7-12, 2022.
  - Member of the Program Committee, *19th International Conference on Principles of Knowledge Representation and Reasoning (KR’22)*, Haifa, Israel, July 31 - August 5, 2022.
  - Co-chair of the Program Committee, *Dynamic Logic: new trends and applications (DALI’22)*, Haifa, Israel, July, 2022.
  - Member of the Program Committee, *17th Workshop on Logical and Semantic Frameworks, with Applications (LSFA 2022)*, September 23-24, 2018, Belo Horizonte, Brasil.
  - Member of the Program Committee, *Knowledge Representation and Reasoning (KRR) track of the 21th Portuguese Conference on Artificial Intelligence (EPIA’22)*, August 31 - September 2, 2022, Lisbon, Portugal.
  - Member of the Program Committee, *25th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS)*, 2-7 April 2022, Munich, Germany
- 2021** • Social Program Co-Chair, *32nd European Summer School in Logic, Language and Information (ESSLLI)*, 26 July to 13 August, 2021. [Virtual].
- Member of the Program Committee, *International Conference on Automated Reasoning*

- with *Analytic Tableaux and Related Methods (Tableaux 2021)*, September 6-9, 2021, Birmingham, UK.
- Member of the Program Committee, *The 13th International Symposium on Frontiers of Combining Systems (FroCos 2021)*, September 8-10, 2021, Birmingham, UK.
  - Member of the Program Committee, *24th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS)*, March 27th to April 1st, 2021, Luxembourg, Luxembourg [Virtual].
  - Member of the Program Committee, *27th Workshop on Logic, Language, Information and Computation (WoLLIC'21)*, October 5-8, 2021, Virtual.
  - Member of the Program Committee, *JELIA 2021, 17th European Conference on Logics in Artificial Intelligence*, May 17-20, 2021, online only hosted by University of Klagenfurt, Austria.
- 2020**
- Member of the Program Committee, *27th Workshop on Logic, Language, Information and Computation (WoLLIC'20)*, August 4-7, 2020, Lima, Peru [posponed to 2021].
  - Member of the Program Committee, *10th International Joint Conference on Automated Reasoning (IJCAR'20)*, June 29-July 2, 2020, Paris, France.
  - Member of the Program Committee, *3rd International Workshop on Dynamic Logic: New Trends and Applications 2020 (DaLi 2020)*. 9-10 October, 2020, Prague, Czech Republic.
  - Member of the Program Committee, *Simposio Argentino de Inteligencia Artificial (ASAI'20)*, August 10-14, 2020, Buenos Aires, Argentina.
  - Member of the Program Committee, *Knowledge Representation and Reasoning (KRR) track of the 20th Portuguese Conference on Artificial Intelligence (EPIA'20)*, September 7-9, 2020, Lisbon, Portugal.
- 2019**
- Member of the Program Committee, *The 12th International Symposium on Frontiers of Combining Systems (FROCOS'19)*, September 4-6, 2019, London, UK.
  - Member of the Program Committee, *DaLi 2019, International Workshop on Dynamic Logic: New Trends and Applications*, October 7-11, 2019 Porto, Portugal.
  - Member of the Program Committee, *IJCAI-19, the 28th International Joint Conference on Artificial Intelligence*, August 10-16, 2019, Macao, China.
  - Member of the Program Committee, *CADE-27, 27th International Conference on Automated Deduction*, 25-30 August 2019, Natal, Brazil.
  - Member of the Program Committee, *JELIA 2019, 16th European Conference on Logics in Artificial Intelligence*, May 8-10, 2019, Rende, Italy.
- 2018**
- Member of the Program Committee, *13th Workshop on Logical and Semantic Frameworks, with Applications (LSFA 2018)*, September 26-28, 2018, Fortaleza, Brasil.
  - Member of the Program Committee, *International Joint Conference on Automated Reasoning (IJCAR18)*, July 14-17, 2018 Oxford, United Kingdom.
  - Member of the Program Committee, *Student Session at the 30th European Summer School in Logic, Language and Information*, August 6-17, 2018, Sofia, Bulgaria.
  - Member of the Program Committee, *EST 2018 - 21er Concurso de Trabajos Estudiantiles (JAIIO)*, 3-7 September, 2018, Buenos Aires, Argentina.
- 2017**
- Member of the Program Committee, *DaLi - Dynamic Logic: new trends and applications*, workshop co-located with TABLEAUX, FROCOS and ITP, 23 and 24 September, 2017, Brasília, Brasil.
  - Member of the Program Committee, *9th Methods for Modalities 2017 (M4M-17)*, Indian Institute of Technology (IIT), January 8-10, 2017, Kanpur, India.
  - Member of the Program Committee, *12th Workshop on Logical and Semantic Frameworks, with Applications (LSFA 2017)*, September 25-29, 2017, Brasília, Brasil.
  - Member of the Program Committee, *11th International Symposium on Frontiers of Combining Systems (FroCoS 2017)*, September 25-29, 2017, Brasília, Brasil.



- 2016** • Member of the Program Committee, *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, *2nd International Workshop on Automated Reasoning in Quantified Non-Classical Logics (ARQNL 2016)*, 1 July 2016, Coimbra, Portugal.
  - Member of the Program Committee, *15th European Conference On Logics In Artificial Intelligence (JELIA 2016)*, April 9-11, Larnaca, Cyprus.
  - Member of the Program Committee(Senior) *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, *Fourth International Congress on Tools for Teaching Logic*, Rennes, France, June 9–12, 2015.
- Member of the Program Committee, *25th International Conference on Automated Deduction (CADE-25)*, Berling, Alemania, Agosto 2-7, 2015.
- 2014** • Member of the Program Committee, *9th Logical and Semantic Frameworks, with Applications (LSFA 2014)*, Brasília, Brazil, Setiembre 8-9, 2014.
- Member of the Program Committee, *DARe-14: International Workshop on Defeasible and Ampliative Reasoning*, Praga, Republica Checa, Agosto 19, 2014.
  - Member of the Program Committee, *14th edition of the European Conference on Logics in Artificial Intelligence (JELIA 2014)*, Madeira, Portugal, Setiembre 24-26, 2014.
  - Member of the Program Committee, *Automated Reasoning in Quantified Non-Classical Logics (ARQNL 2014)*, Viena, Austria, Julio 23, 2014.
  - Member of the Program Committee, *Simpósio Latinoamericano en Investigacion de Operaciones e Inteligencia Artificial, XXXX Conferencia Latinoamericana en Informática (CLEI 2014)*.
  - Member of the Program Committee, *17th Brazilian Logic Conference (EBL 2014)*, Petrópolis, RJ, April 7-11, 2014.
  - Member of the Program Committee, *XVI Latin-American Symposium on Mathematical Logic (SLALM 2014)*, Buenos Aires, Argentina, Julio 28 - Agosto 1, 2014.
  - Member of the Program Committee, *Advances in Modal Logic (AiML14)*, Groningen, The Netherlands, Agosto 5-8, 2014.
  - Member of the Program Committee, *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, *Latin American Symposium of Operations Research and Artificial Intelligence en la XXXIX Conferencia Latinoamericana de Informática (XXXVII CLEI)*, Venezuela.
- Member of the Program Committee, *Latin American Symposium of Theory of Computation en la XXXIX Conferencia Latinoamericana de Informática (XXXVII CLEI)*, Venezuela.
  - Chair of the Program Committee, *Methods for Modalities 2013 (M4M-13)*, June, 2013, Lake Placid, New York, US.
  - Member of the Program Committee, *Automated Deduction: Decidability, Complexity, Tractability (ADDCT'2013)*, 9-14 de June, 2013, Lake Placid, New York, US.
  - General Co-Chair, *Jornadas Argentinas de Informática*, September 2013, Córdoba, Argentina.
  - Member of the Program Committee, *Automated Reasoning with Analytic Tableaux and Related Methods (Tableaux 2013)*, September, 2013, Nancy, France.
  - Member of the Program Committee, *9th International Symposium on Frontiers of Combining Systems (FroCoS 2013)*, 18-20 September 2013, Nancy, France.
- 2012** • Member of the Program Committee, *Symposium on Social Computing, Social Cognition, Social Networks and Multiagent Systems (SNAMAS 2012)*, Birmingham, England, 2–3 July, 2012.

- Member of the Program Committee, *7th Logical and Semantic Frameworks, with Applications (LSFA 2012)*, Rio de Janeiro, RJ, Brazil, 29th of September, 2012.
  - Member of the Program Committee, *2012 21st Brazilian Symposium on Artificial Intelligence (SBIA 2012)*, Curitiba, Paraná, Brazil, 20-25 October 2012.
  - Member of the Program Committee, *2012 International Workshop on Description Logics (DL2012)*, Rome, Italy.
  - Co-chair of the Organizing Committee, *19th Workshop on Logic, Language, Information and Computation (WoLLIC12)*, Buenos Aires, Argentina.
  - Member of the Program Committee, *Advances in Modal Logic (AiML12)*, Copenhagen, Denmark.
  - Member of the Program Committee, *XXXVII Conferencia Latinoamericana de Informática (XXXVII CLEI)*, Quito, Ecuador.
  - Co-chair of the Program Committee *11th North American Summer School in Logic, Language and Information (NASSLLI)*, Austin, Texas, USA.
- 2011**
- Organizer, *2da Escuela de Lingüística Computacional*, Córdoba, Argentina.
  - Member of the Program Committee, *ASAI 2011 Argentine Symposium on Artificial Intelligence*, UTN - Facultad Regional Córdoba, en Córdoba, Argentina, Agosto 29 a Setiembre 30, 2011.
  - Chair of the Program Committee, *2nd. Escuela de Lingüística Computacional (ELiC-2011)*, Universidad Nacional de Córdoba, en Córdoba, Argentina, Agosto 1-4, 2011.
  - Member of the Program Committee, *2nd. NLPW Workshop*, Universidad Nacional de Córdoba, en Córdoba, Argentina, Agosto 5-6 2011.
  - Member of the Program Committee, *STIL-2011*, Federal University of Mato Grosso, en Cuiaba, Mato Grosso, Brazil, Octubre 24-26 2011.
  - Member of the Program Committee, *7th Methods for Modalities Workshop (M4M7)*, Osuna, Spain.
  - Member of the Program Committee, *2011 International Workshop on Description Logics (DL2011)*, Barcelona, Spain.
  - Member of the Program Committee, *Third International Congress on Tools for Teaching Logic*, Salamanca, Spain.
- 2010**
- Member of the Program Committee, *Workshop on NLP and Web-based technologies*, IBERAMIA 2010, Bahía Blanca, Argentina.
  - Member of the Program Committee, *36th Latin American Conference of Informatics*, Asunción, Paraguay.
  - Member of the Program Committee, *2010 Workshop on Hybrid Logics (HyLo 10)*, Edinburgh, United Kingdom.
  - Member of the Program Committee, *1era Escuela de Lingüística Computacional (ELiC-1)*, Buenos Aires, Argentina.
  - Member of the Program Committee, *2010 International Workshop on Description Logics (DL2010)*, Waterloo, Canada.
  - Member of the Program Committee, *International Joint Conference on Automated Reasoning (IJCAR10)* Edinburgh, United Kingdom.
  - Member of the Program Committee, *Advances in Modal Logic (AiML10)* Moscu, Russia.
- 2009**
- Member of the Program Committee, *Automated Deduction: Decidability, Complexity, Tractability Workshop (ADDCT'09)* Montreal, Canada.
  - Co-chair of the Program Committee, *2009 Workshop on Hybrid Logics (HyLo 09)*, Nancy, France.
  - Member of the Program Committee, *2009 International Workshop on Description Logics (DL2009)*, Dresden, Germany.
  - Member of the Program Committee, *6th Methods for Modalities Workshop (M4M6)*, Copenhagen, Denmark.

- 2008** • Member of the Program Committee, *Workshop on Complexity, Expressibility, and Decidability in Automated Reasoning (CEDAR08)*, Sydney, Australia.  
 • Member of the Program Committee, *18th European Conference on Artificial Intelligence, ECAI 2008*, Patras, Greece.  
 • Member of the Program Committee, *2008 International Workshop on Description Logics (DL2008)*, Dresden, Germany.  
 • Co-chair of the Program Committee, *Advances in Modal Logic Workshop (AiML)*, Nancy, France.
- 2007** • Member of the Program Committee, *2007 Eurolan Summer School (EUROLAN07)*, Iasi, Romania.  
 • Co-chair of the Program Committee, *5th Methods for Modalities Workshop (M4M5)*, Chachan, France.  
 • Member of the Program Committee, *2007 International Workshop on Description Logics (DL2007)*, Brixen-Bressanone, Italy.  
 • Member of the Program Committee, *Noveno Simposio Argentino de Inteligencia Artificial (ASAI 2007)*, Mar of the Plata, Argentina.  
 • Member of the Program Committee, *2007 Workshop on Hybrid Logics (HyLo 07)*, Dublin, Ireland.
- 2006** • Member of the Program Committee, *Second International Congress on Tools for Teaching Logics*, Salamanca, Spain.  
 • Member of the Organization Committee, *Panorama des Recherches Incitatives en STIC (PaRISTIC)*, Nancy, France.  
 • Member of the Program Committee, *2006 International Workshop on Description Logics (DL2006)*, Lake district, UK.  
 • Member of the Program Committee, *Campus Multidisciplinar en Percepción e Inteligencia (CMPI-2006)*, Albacete, Spain.  
 • Member of the Program Committee, *Twenty-First National Conference on Artificial Intelligence (AAAI-06)*, Boston, USA.  
 • Chair of the Program Committee, *18th European Summer School in Logic, Language and Information (ESSLLI)*, Málaga, Spain.  
 • Member of the Program Committee, *Inference in Computational Semantics (ICoS-5)*, Buxton, England.  
 • Member of the Program Committee, *2006 Workshop on Hybrid Logics (HyLo 06)*, Seattle, Washington 2006.
- 2005** • Member of the Program Committee, *Method for Modalities 4 (M4M-4)*, Berlin, Germany.  
 • Member of the Program Committee, *2005 International Workshop on Description Logics (DL2005)*, Edinburgh, Scotland, UK.
- 2004** • Co-organizer, *16th European Summer School in Logic, Language and Information (ESSLLI)*, Nancy, France.  
 • Member of the Program Committee, *2004 International Workshop on Description Logics (DL2004)*, Whistler, British Columbia, Canada.
- 2003** • Co-chair of the Program Committee, *First Nancy Inference Week, Methods for Modalities 3 (M4M-3), Inference in Computational Semantics 4 (ICoS-4), 1st Description Logic Day*, Nancy, France.
- 2002** • Co-chair of the Program Committee, *HyLo@LICS, Fourth Workshop on Hybrid Logics*, Sponsored by LICS, Copenhagen, Denmark.  
 • Member of the Program Committee, *First European Starting AI Researcher Symposium*, Lyon, France.  
 • Member of the Program Committee, *ESSLLI 2002 Student Session*, Trento, Italy.

- 2001** • Co-chair of the Program Committee, *Methods for Modalities 2 (M4M-2)*, Amsterdam, The Netherlands.
- 2000** • Co-organizer, *HyLo 2000, Second Workshop on Hybrid Logics*, Birmingham, United Kingdom.
- 1999** • Co-chair of the Program Committee, *Methods for Modalities 1 (M4M-1)*, Amsterdam, The Netherlands.
- 1998** • Member of the Program Committee, *Frontiers of Combining Systems (FroCos'98)*, Amsterdam, The Netherlands.  
 • Co-chair of the Program Committee, *Student Session (Logic Track) de ESSLLI'98*, Saarbrücken, Germany.

## 11 Participation in Conferences

- 2024** • One week course, Río'24, Febrero 2024, Río IV, Argentina.
- 2023** • Presentations: AAMAS 2023, JELIA 2023, DaLi 2023.
- 2022** • Presentations: WoLLIC 2022.
- 2021** • Presentations: TARK'21, DEON 2020/21.
- 2020** • Invited speaker, Seminars at *BA LOGIC* Buenos Aires Logic Group, Institute for Research in Philosophy of the Argentinean Society of Philosophical Analysis (IIF-SADAF), Buenos Aires, 2020.  
 • Presentations: DaLi 2020.
- 2019** • Invited speaker, Institut de Recherche en Informatique de Toulouse (IRIT), July, Toulouse, France, 2019.  
 • Invited speaker, Research Centre for Knowledge and Data (KRDB), 4th October, Bolzano, Italy, 2019  
 • Presentations: TARK'19, CADE'19, AAAF'19, JELIA'19.
- 2018** • Invited speaker, 7th CSLI Workshop on Logic, Rationality, and Intelligent Interaction, Stanford, USA, 2-3 June, 2018.  
 • Invited speaker, Logic Colloquium at University of California, Berkeley, USA, 13th April, 2018.  
 • Invited speaker, Center for Latin American Studies, Stanford University, Stanford, USA, 4th May, 2018.  
 • Presentations: WoLLIC'18, LPAR'18, AWPL'18, AiML'18.
- 2017** • Keynote speaker, 17avo Simposio Latinoamericano de Lógica Matemática (SLALM), Puebla, México, Junio 26 al 30.  
 • Invited speaker, 26th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, September 2017, Brasilia, Brasil.  
 • Seminar, Escuela Argentina de Inteligencia Artificial de la 46th JAIIO, Córdoba, 8 de Setiembre, Argentina.  
 • Presentations: DaLi'17, EPIA'17.
- 2016** • One week course, Río'16, Febrero 2016, Río IV, Argentina.  
 • Invited speaker, JCC'16, Octubre 2016, Rosario, Argentina.  
 • Invited speaker, FoG Workshop, Bs. As., Argentina, Setiembre 2016.  
 • Presentations: GanDALF'16, JELIA'16.
- 2015** • Two week course, ESSLLI'15, Agosto 2015, Barcelona, España.

- 2014** • Invited speaker, Logic, Language, Information, Theory and Applications Group, UFRN, Natal, December 2014.  
• Presentations: ICAPS'14, WoLLIC'14, ICDT'14.
- 2013** • Invited speaker, Verification and Testing of Multi-Agent Systems, Schloss Dagstuhl, Germany, April 28 to May 3.  
• Invited speaker, 8th Workshop on Logical and Semantic Frameworks, with Applications, Sao Paulo, Brazil, September 2-3.  
• Tutorial, 8th Workshop on Logical and Semantic Frameworks, with Applications, Sao Paulo, Brazil, September 2-3.  
• Tutorial, 4th World Congress and School on Universal Logic, Rio de Janeiro, Brazil, March 29–April 07, 2013.  
• Presentations: SMT'13, LSFA'13, Tableaux'13, FroCos'13.
- 2012** • Invited speaker, IV Latin American Mathematics Conference, Universidad Nacional de Córdoba, Argentina.
- 2011** • Invited speaker, Río 2011, Río Cuarto, Argentina.  
• Invited speaker, XVI EBL - Brazilian Logic Conference, Petrópolis, Brasil.  
• One week course, ELiC-2, Córdoba, Argentina.
- 2010** • One week course, ELiC-1, Buenos Aires, Argentina.  
• One week course, NASSLLI 2010, Indiana, USA.  
• Invited speaker, JCC 2010, Rosario, Argentina.
- 2009** • One week course, Universidad de Salamanca, Spain.  
• One week course, Tbilisi Symposium, Georgia.  
• Tutorial, FIRST Autumn School, Copenhagen, Denmark.  
• Invited speaker, Tbilisi Symposium, Georgia.  
• Presentations: en Tableaux'09, Oslo, Norway.
- 2008** • One week course, Universidad de Buenos Aires, Argentina.  
• One week course, Universidad de Río Cuarto, Argentina.  
• One week course, ESSLLI 2008, Hamburg, Germany.  
• One week course, Universidad de Córdoba, Argentina.
- 2007** • One week course, Universidad de Buenos Aires, Argentina.  
• Invited speaker, Universidad de San Sebastian, Spain.  
• Invited speaker, Student Session, ESSLLI'07, Dublin, Ireland.  
• Presentations: M4M'07.
- 2006** • One week course, Universidad de Salamanca, España.  
• Invited speaker, Universidad de Buenos Aires, Argentina.  
• Invited speaker, Universidad de Córdoba, Argentina.  
• Invited speaker, Manchester University, UK.  
• One month doctoral course, Universidad de Buenos Aires, Argentina.
- 2005** • One week course, ECI 2005.  
• Presentations: LPAR'05.
- 2004** • One week course, Universidad de Salamanca, España.  
• One week course, JALIMI 2004, Rosario, Argentina.
- 2003** • Presentations: DL'03, ICoS'03, DLD'03, HyLo'03, M4M-3.
- 2002** • Presentations: AiML 2002, BNAIC'02, HyLo@LICS.
- 2001** • One month doctoral course, Universidad de Buenos Aires, Argentina.  
• Presentations: HyLo 2001, BNAIC 2001, M4M-2.

- 2000** • Invited speaker, Computational Linguistics Seminar, University of Saarbrücken.  
• Presentations: bencl2000, HyLo 2000, ECAI 2000.
- 1999** • Invited speaker, ESSLLI'99, Málaga, España.  
• Presentations: CADE'99, HyLo'99, LUATCS'99.
- 1998** • Invited speaker, ECT'98, Universidad de Buenos Aires, Argentina.  
• Presentations: ESSLLI'98, WoLLIC'98, DL'98, BR'98.
- 1997** • Presentations: ESSLLI'97.
- 1995** • Participation: DIMACS Summer School on Applied Logic and Algorithms at Rutgers, The State University, USA.  
• Presentations: CACiC'99.
- 1994** • Participation: 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: 5. Completed: 1.

- Ongoing:
  - Dr. Franco Luque (assistant researcher, starting in 2014)
  - Dr. Beta Zilani (assistant researcher, starting in 2015)
  - Dr. Raul Fervari (adjoint researcher, starting in 2019)
  - Dr. Guillaume Hoffmann (assistant researcher, starting in 2016)
  - Dr. Valentin Cassano (assistant researcher, starting in 2020)
- Completed:
  - Dr. Raul Fervari (assistant researcher, 2016 – 2019)

**Posdoctoral Students.** Currently: 0. Alumni: 9.

- Completed:
  - Facundo Bustos (2020 – 2023)
  - Alejandro Gadea (2019 – 2021)
  - Valentin Cassano (2017 – 2019)
  - Romina Altamirano (2017 – 2018)
  - Guillaume Hoffmann (2014 – 2015)
  - Guillaume Hoffmann (2012 – 2013)
  - Raul Fervari (2014 – 2015)
  - Ezequiel Orbe (2014 – 2015)
  - Beta Zilani (2015 – 2017)

**PhD Students.** Currently: 1. Alumni: 7.

- Ongoing:
  - Danae Dutto, *Algebrization of Xpath with Data* (co-dir. Valentín Cassano). Universidad Nacional de Córdoba. Expected graduation date: 12/2025.
- Completed:
  - Facundo Bustos, *Optimization of Planning Domains*. Universidad Nacional de Córdoba. 05/2020.
  - Raul Fervari, *Relation-Changing Modal Logics*. Universidad Nacional de Córdoba. 03/2014.
  - Alejandro Orbe, *Symmetries in Automated Reasoning*. Universidad Nacional de Córdoba. 03/2014.
  - Guillaume Hoffmann, *Reasoning Tasks for Hybrid Logics*. Université Henri Poincaré. 12/2011.
  - Paul Bédaride, *Implication Textuelle et Réécriture*. Université Henri Poincaré. 10/2010. (Co-dir. Claire Gardent)
  - Daniel Gorín, *Automated Reasoning Techniques for Hybrid Logics*. Co-tutelle Université Henri Poincaré & Universidad de Buenos Aires. 12/2009.
  - Sergio Mera, *Modal Memory Logics*. Co-tutelle Université Henri Poincaré & Universidad de Buenos Aires. 12/2009.

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

- Completed:
  - Paul Bedaride “Implication Textuelle et Logiques de Descriptions”, LORIA. 2006. (Co-dir. Claire Gardent)
  - Guillaume Hoffmann “Algorithme des tableaux pour logique hybride avec terminaison” LORIA. 2006.
  - Bernadette Martínez Hernández “Automated Reasoning with Boolean ABoxes”, ILLC, 2002
  - Rafael Accorsi, “Exploring the Behaviour of Feature Interaction via Stable Models”, ILLC, 2000.

**Final theses Licenciatura en Cs. de la Computación.** Currently: 1. Alumni: 16.

- Ongoing:
  - Julia Olcese, “Métodos de Aprendizaje Automático para Grounding en Planning Clásico”, UNC, 2024.
- Completed:
  - José Doffo, “Aprendizaje no supervisado para la detección de errores en programas escritos por estudiantes”, UNC, 2023, (co-dir. Franco Bulgarelli).
  - Nicolas Benjamin Ocampo, “Uso de Word Embeddings en Planning Clásico”, UNC, 2021, (co-dir. Martín Dominguez).
  - Nahuel Seiler, “Tableaux para XPath”, UNC, 2017 (co-dir. Raul Fervari).
  - Giovanni Rescia, “Simetrías en Lógicas de Descripción”, UNC, 2017 (co-dir. Ezequiel Orbe).
  - Ezequiel Medina, “Optimización de Dominios de Planning”, UNC, 2016.
  - Mauricio Martel, “On the Undecidability of Relation-Changing Logics”, UNRC, 2015.
  - Gisela Rossi “Lógicas Modales con datos infinitos”, UNC, 2014.
  - Facundo Bustos “Optimización en dominios de planificación”, UNC, 2013.
  - Marcio Díaz, “Optimización de la Traducción Funcional para Lógicas Modales”, UNC, 2013.
  - Facundo Carreiro “Caracterización y Definibilidad en Fragmentos Modales de Primer Orden”, UBA, 2010.
  - Daniel Koile “Complejidad computacional de lógicas híbridas sub-booleanas”, UBA, 2008.
  - Alejandra Lorenzo “Testing Description Logic Provers on Hybrid Formulas”, UNCOMA, 2008.
  - Diego Figueira “Bisimulaciones en Neighbourhood Semantics”, UBA, 2006.
  - Julián Mendez “Lógicas de Descripción con Chequeo de Modelos Paramétricos”, UBA, 2005.
  - Luciana Benotti “Planeamiento en un Sistema de Diálogo”, UNCOMA, 2005.
  - Daniel Gorín “Resolución con orden y selección para la lógica H(@)”, UBA, 2004.

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



## 15 Doctoral Jury Duty

- 2023** “Unusual proof systems for modal logics with applications to decision problems,” Marianela Morales. LIX - Laboratoire d’informatique de l’École polytechnique, France.
- 2018** “Síntesis dirigida de controladores para sistemas de eventos discretos,” Daniel Alfredo Ciolek. Universidad de Buenos Aires, Argentina.
- 2014** “Dos temas en reescritura: combinadores para cálculos con patrones e isomorfismo de Curry-Howard para la Lógica de Pruebas,” Gabriela Steren. Universidad de Buenos Aires, Argentina.
- 2014** “Cómputo secuencial eficiente de cotas ajustadas y su impacto en la performance de los análisis de programa basados en SAT,” Pablo Daniel Ponzio. Universidad de Buenos Aires, Argentina.
- 2014** “Mejoras a la demostración interactiva de propiedades Alloy utilizando SAT-Solving,” Mariano Miguel Moscato. Universidad de Buenos Aires, Argentina.
- 2013** “Semánticas de procesos para sistemas interactivos y sistemas probabilísticos,” Matias David Lee. Universidad Nacional de Córdoba, Argentina.
- 2012** “Type-Checking and Normalisation By Evaluation for Dependent Type Systems,” Miguel M. Pagano. Universidad Nacional de Córdoba, Argentina.
- 2003** “Building Logic Toolboxes,” Juan Martín Heguiabehere. Universiteit van Amsterdam, The Netherlands.

## 16 Publications

### 16.1 Five most relevant publications

- [84] 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.  
430 cites in Google Scholar in June, 2024. 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.
- [46] 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.  
302 cites in Google Scholar in June, 2024. 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.
- [3] Logic Engineering. The Case of Description and Hybrid Logics, C. Areces. PhD Thesis. ILLC, University of Amsterdam, The Netherlands. 2000.  
129 cites in Google Scholar in June, 2024. 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.
- [42] 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.  
145 cites in Google Scholar in June, 2024. 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*.

- [109] 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.  
57 cites in Google Scholar in June, 2024. 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 June, 2024.

	Google	AMiner	Scopus
H Index	24	28	17
Total Cites	2966	3759	934
Counted Publications	161	153	80

## Books

- [1] **C. Areces** and P. Blackburn. *Introduction to Computability*. In preparation.
- [2] **C. Areces** and P. Blackburn. *Logics*. In preparation.
- [3] **C. Areces**. *Logic Engineering. The Case of Description and Hybrid Logics*. PhD Thesis. Amsterdam, The Netherlands, 2000. ISBN: 978-90-5776-053-2.

## Edited Volumes

- [4] **C. Areces** and D. Costa, eds. *Dynamic Logic. New Trends and Applications*. Springer International Publishing, 2023. ISBN: 978-3-031-26622-5.
- [5] **C. Areces** and L. Alonso Alemany, eds. *Anales de las 42 JAIIO Jornadas Argentinas de Informática*. SADIO Sociedad Argentina de Informática, 2013.
- [6] **C. Areces** and P. Blackburn, eds. *Hybrid Logics*. Vol. 8. Special Issue of the Journal of Applied Logic 4. College Publications, 2010.
- [7] **C. Areces** and S. Demri, eds. *Methods for Modalities 2007*. ENTCS, 2008.
- [8] **C. Areces** and R. Goldblatt, eds. *Advances in Modal Logic, Volume 7*. College Publications, 2008. ISBN: 978-1904987680.
- [9] **C. Areces**, ed. *Methods for Modalities 3*. Special Issue in the Journal of Applied Logics. Elsevier, 2005.
- [10] **C. Areces** and P. Blackburn, eds. *Hybrid Logics*. Vol. 11. Special Issue in the Journal of Logic and Computation 5. Oxford University Press, 2001.
- [11] **C. Areces**, E. Franconi, R. Goré, M. de Rijke, and H. Schlingloff, eds. *Methods for Modalities 1*. Vol. 8. 3. Special Issue in the Journal of the IGPL. Oxford University Press, 2000.

## Journal Articles

- [12] **C. Areces**, R. Fervari, A. Saravia, and F. Velázquez-Quesada. “Uncertainty-based knowing how logic.” In: *Journal of Logic and Computation* 33.6 (2023), pp. 1301–1325. ISSN: 0955-792X.
- [13] V. Cassano, R. Fervari, **C. Areces**, and P. Castro. “Algebraic tools for default modal systems.” In: *Journal of Logic and Computation* (2022). ISSN: 0955-792X.
- [14] **C. Areces**, H. van Ditmarsch, R. Fervari, B. Maubert, and F. Schwarzentruher. “Copy and remove as dynamic operators.” In: *Journal of Applied Non-Classical Logics* 31.3-4 (2021), pp. 181–220. ISSN: 1166-3081.

- [15] **C. Areces** and R. Fervari. “Axiomatizing Hybrid XPath with Data.” In: *Logical Methods in Computer Science* 17.3 (2021). ISSN: 1860-5974.
- [16] **C. Areces**, R. Fervari, A. Saravia, and F. Velázquez-Quesada. “Uncertainty-Based Semantics for Multi-Agent Knowing How Logics.” In: *Electronic Proceedings in Theoretical Computer Science* 335 (2021). Ed. by J. Halpern and A. Perea. Proceedings of the 18th Conference on Theoretical Aspects of Rationality and Knowledge, TARK 2021, Beijing, China, June 25-27, 2021, pp. 23–37. ISSN: 2075-2180.
- [17] **C. Areces**, M. Campercholi, D. Penazzi, and P. Ventura. “The complexity of definability by open first-order formulas.” In: *Logic Journal of the IGPL* 28.6 (2020), pp. 1093–1105. ISSN: 1367-0751.
- [18] P. Castro, V. Cassano, R. Fervari, and **C. Areces**. “An algebraic approach for action based default reasoning.” In: *Electronic Proceedings in Theoretical Computer Science* (2019). Proceedings 7th Conference on Theoretical Aspects of Rationality and Knowledge, TARK 2019, Toulouse, France, 17-19 July 2019, pp. 91–105. ISSN: 2075-2180.
- [19] **C. Areces**, R. Fervari, G. Hoffmann, and M. Martel. “Satisfiability for relation-changing logics.” In: *Journal of Logic and Computation* 28.7 (2018), pp. 1443–1470.
- [20] V. Cassano, **C. Areces**, and P. Castro. “Reasoning About Prescription and Description Using Prioritized Default Rules.” In: *EPiC Series in Computing* 57 (2018). LPAR-22. 22nd International Conference on Logic for Programming, Artificial Intelligence and Reasoning, Awassa, Ethiopia, 16-21 November 2018, pp. 196–213. ISSN: 2398-7340.
- [21] **C. Areces**, M. Campercholi, D. Penazzi, and P. Sánchez Terraf. “The lattice of congruences of a finite line frame.” In: *Journal of Logic and Computation* 27.8 (2017), pp. 2653–2688.
- [22] **C. Areces**, H. van Ditmarsch, R. Fervari, and F. Schwarzentruher. “The modal logic of copy and remove.” In: *Information and Computation* 255 (2017), pp. 243–261.
- [23] **C. Areces**, R. Fervari, G. Hoffmann, and M. Martel. “Relation-Changing Logics as Fragments of Hybrid Logics.” In: *Electronic Proceedings in Theoretical Computer Science* 226 (2016). Ed. by D. Cantone and G. Delzanno. Proceedings of the 7th International Symposium on Games, Automata, Logics and Formal Verification, pp. 16–29. ISSN: 2075-2180.
- [24] **C. Areces**, R. Fervari, and G. Hoffmann. “Relation-changing modal operators.” In: *Logic Journal of the IGPL* 23.4 (2015), pp. 601–627.
- [25] **C. Areces** and E. Orbe. “Symmetric blocking.” In: *Theoretical Computer Science* 606 (2015), pp. 25–41.
- [26] **C. Areces** and E. Orbe. “Symmetries in Modal Logics.” In: *Bulletin of Symbolic Logic* 21.4 (2015), pp. 373–401.
- [27] D. Figueira, S. Figueira, and **C. Areces**. “Model Theory of XPath on Data Trees. Part I: Bisimulation and Characterization.” In: *Journal of Artificial Intelligence Research* 53 (2015), pp. 271–314.
- [28] **C. Areces**, P. Blackburn, A. Huertas, and M. Manzano. “Completeness in Hybrid Type Theory.” In: *Journal of Philosophical Logic* 43.2–3 (2014), pp. 209–238.
- [29] **C. Areces**, F. Carreiro, and S. Figueira. “Characterization, Definability and Separation via Saturated Models.” In: *Theoretical Computer Science* 537 (2014), pp. 72–86.
- [30] **C. Areces**, R. Fervari, and G. Hoffmann. “Swap Logic.” In: *Logic Journal of the IGPL* 22.2 (2014), pp. 309–332.
- [31] **C. Areces**, G. Hoffmann, and E. Orbe. “Symmetries in Modal Logics.” In: *Electronic Proceedings in Theoretical Computer Science* 113 (2013). Ed. by D. Kesner and P. Viana. Proceedings of the 7th Workshop on Logical and Semantic Frameworks, with Applications, pp. 27–44. ISSN: 2075-2180.

- [32] L. Ong, **C. Areces**, S. Figueira, and R. de Queiroz. “19th Workshop on Logic, Language, Information and Computation (WoLLIC 2012).” In: *The Bulletin of Symbolic Logic* 19.3 (2013), pp. 425–426.
- [33] **C. Areces**, S. Figueira, and S. Mera. “Completeness results for memory logics.” In: *Annals of Pure and Applied Logic* 163.7 (2012). Extended version of LFCS’09 paper of the same title., pp. 961–972. ISSN: 0168-0072.
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