

Curriculum Vitae

Dr. Leopoldo E. Bertossi

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Current Position: Full Professor with tenure
School of Computer Science
Carleton University

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Place and Date of Birth: Santiago de Chile, February 8, 1954.

Languages: Spanish, English, German. Partial: French, Italian.

1 Research and Scientific Interests

1. **Data Management:** Data Quality, Data Management for Business Intelligence, Intelligent Information Systems, Data on the Web, Semantics of Databases, Data Integration, Peer Data Management Systems, Data Privacy, Data Analytics, Machine Learning for Data Management.
2. **Artificial Intelligence:** Logic-Based Knowledge Representation, Probabilistic Knowledge Representation and Reasoning, Semantic Web and Ontologies, Computational Logic, Semantics and Applications of Logic Programming, Mental Models, Computational Aspects of Cognition.
3. **Logic, Complexity and Information:** Computational Complexity, Descriptive Complexity, Logic in Computer Science, Finite Model Theory, Information Theory, Foundations of Probability and Statistical Methods.

Scientific Societies Memberships: Association for Computing Machinery (ACM), ACM Special Interest Group on Management of Data (SIGMOD), ACM Special Interest Group on Algorithms and Computation Theory (SIGACT), ACM Special Interest Group on Logic and Computation, American Association for Artificial Intelligence (AAAI), Chilean Computer Science Society (SCCC).

2 Academic Degrees

1. 1988: “Doctor in Exact Sciences (Mathematics)”, Pontificia Universidad Catolica de Chile (PUC), (PhD program based on oral qualifying examinations and a research thesis). Thesis title: “The Formal Language Lt and Topological Products”. Thesis Supervisor: Prof. Dr. Jörg Flum (Univ. of Freiburg, Germany).
2. 1982: “Magister en Ciencias Exactas (Matematica)”, PUC, (a masters degree based on courses, written qualifying examinations and a research thesis). Thesis title: “Chuaqui’s Definition of Probability in Some Stochastic Processes”. Thesis Supervisor: Prof. Dr. Rolando Chuaqui.
3. 1976: “Licenciado en Matematica”, PUC, (a five year bachelor degree in mathematics).

3 Honors and Recognitions

1. First Fellow of the Alberto Mendelzon WS on Foundations of Data Management (AMW), June 2017.
2. Special Recognition of the Brazilian Computer Science Society, June 2017.
3. Doctor Honoris Causa. Universidad Privada Antenor Orrego, Peru. November 2015.
4. Faculty Fellow, Center for Advanced Studies, IBM Toronto Lab., since 2003.
5. Member of the 2016 Computer Science, Mathematics and Statistics RTI NSERC Selection Committee.
6. Member of the ACM Distinguished Speakers Program, 2007-2014.
7. Member of the PhD Council, Faculty of Engineering, University of Calabria, Italy, since 2011.
8. Theme Leader of “Adaptive Data Cleaning”, one of the four research themes of the “NSERC Strategic Network on Business Intelligence (BIN)”, a five year project with funding of \$1,400,000 per year. 2008-2010.
9. Pauli Fellow of the “Wolfgang Pauli Institute (WPI) Vienna”. Austria, 2006.
10. Chair of the “NSERC Accelerate” Grant Committee, Computer Science and Engineering, 2009.
11. Member of the NSERC Computing and Information Sciences Grant Selection Committee (GSC 330). 2003-2005.
12. External Professor, European Masters Program in Computational Logic (Free University of Bozen-Bolzano, Italy; Technische Universitaet Dresden, Germany; Universidade Nova de Lisboa, Portugal; Technische Universitaet Wien, Austria; Universidad Politecnica de Madrid, Spain). Since 2004.

13. Official visiting professor University of Calabria, Rende, Calabria. Since 2013.
14. (First) Honorary Member of the Chilean Computer Science Society (SCCC). Nov. 2003.

3.1 Major international invitations:

1. Invited professor, Free University of Bozen-Bolzano, Italy, Knowledge Representation and Databases Group, 2005.
2. Research Scholarship, Berlin-Brandenburg Graduate College “Distributed Information Systems” (three months) at the Technical University Berlin. 1998.
3. DAAD Scholarship (three months) at the Technical University of Berlin. Institute for Distributed Information Systems. 1997.
4. Visiting Research Professor, Fakultät für Informatik, Technical University of Berlin. Sept. 97 - Feb. 98.
5. Visiting Research Professor, Dept. d’Informatique, Fac. Sciences de Luminy, Universite de Marseille, France. Jan. 97 - Feb. 97.
6. UNDP-UNESCO Research Fellow, Mathematics Institute, Department of Mathematical Logic and Foundations of Mathematics, University of Freiburg, Germany. 1986.
7. German Academic Exchange Program (DAAD) Scholarship, Mathematics Institute, Department of Mathematical Logic and Foundations of Mathematics, University of Freiburg, Germany. 1978-79.

4 Employment History

1. Full Professor, School of Computer Science, Carleton University, Canada. Since 2001. Also member of the Carleton Institute of Cognitive Science, 2002-2010.
2. Adjunct full professor, School of Engineering, University of Concepción, Chile. 2009-2010.
3. Associate Professor, Computer Science Department, School of Engineering, PUC. 1992-2001.
4. Visiting Assistant Professor, Department of Electrical Engineering and Computer Science, University of Wisconsin-Milwaukee, USA. 1990-91.
5. Visiting Assistant Professor, Department of Computer Science, University of Toronto, Canada. 1989-90.
6. Associate Professor, Mathematics Department, Computer Science Program, PUC. 1989-1992.
7. Assistant Professor, Mathematics Department, PUC. 1984-1988.

8. Lecturer, Probability and Statistics Department, PUC. 1982-83.
9. Lecturer, Mathematics Department, PUC. 1976-81.
10. Full-Time Consultant, Statistics Department, State Computing Enterprise (ECOM), Chile. 1975.

5 Scholarly and Professional Activities

1. Chairman, Computer Science Department, School of Engineering, PUC. 1994-1996.
2. President of the Chilean Computer Science Society (SCCC). Nov.95-Oct.96. Nov.98-Oct.2000.
3. Secretary of the Chilean Computer Science Society (SCCC). Nov.92-Oct.95.
4. Member Advisory Committee, Graduate Studies Office, PUC. 1996-1997.
5. Member Advisory Committee, Research and Graduate Studies Office, School of Engineering, PUC. 1998-2001.
6. Member of Graduate Scholarships Program Committee (Mathematics and Statistics), CONICYT¹. Dec. 98 - July 01.
7. Member PhD Programs Accreditation Committee (Mathematics, Statistics and Computer Science), CONICYT. Dec. 98 - 2001.
8. Coordinator of the Chilean-German Collaboration Program on Information Technology. Appointed by the Chilean Government. 1998-2001.
9. Executive Editor “Revista de la Sociedad Chilena de Ciencia de Computacion (Journal of the Chilean Computer Science Society). 1994-2001, SCCC.
10. Member Editorial Board, SADIO Electronic Journal, Sociedad Argentina de Informatica e Investigacion Operativa (Journal of the Argentinean Informatics and Operation Research Society). 1998-2001.
11. Member Editorial Board of “AI Communications” (the European AI Journal). 2000-2005, IOS Press.
12. Member ACM SIGMOD Latin America Liaison Committee. Since 2000.
13. Director of the DIPUC Program for Information Science and Data Analysis, PUC. June 2000 - Aug. 2001.
14. Member of the “Logic and Foundations of Computing Group”, University of Ottawa and Carleton University. Since 2001.
15. Member of Promotion and Tenure Committee, School of Computer Science, Carleton University. Since July 2002.

¹The Governmental Funding Agency for Scientific and Technological Research in Chile.

16. Member of Carleton University's Senate. Chair of the Senate's Computing Policies Committee. (2003 -2005)
17. Acting Associate Director; School of Computer Science, Carleton University. August 2004 - July 2005.
18. Founder and Member of Steering Committee of the "Alberto Mendelzon Workshop on Foundations of Data Management". An international event held on a yearly basis, since 2006.
19. Professor of PhD course at Technical University of Milan (Politecnico di Milano), Milan, Italy, June 2013.
20. Professor of PhD course at University of Rome "La Sapienza", Rome, Italy, Oct. 2013.
21. Professor of PhD course at University of Calabria, Rende, Italy, Nov. 2013.
22. Visiting Researcher, LogicBlox, Atlanta, GA, USA, Feb.-March 2014.

6 Publications

Books

1. L. Bertossi. *Database Repairing and Consistent Query Answering*. Morgan & Claypool Publishers, September 2011. ISBN: 9781608457625.
2. L. Bertossi. *Logic for Computer Science* (in Spanish). Ediciones Pontificia Universidad Catolica de Chile, 1996, 310 pp., ISBN 956-14-0404-4.

Edited Books (not proceedings)

3. L. Bertossi, A. Hunter and T. Schaub. *Inconsistency Tolerance in Data and Knowledge Base Systems and Software Specifications*. Springer Verlag, State of the Art Series, LNCS 3300, 2004.
4. L. Bertossi, G. Katona, B. Thalheim and K.-D. Schewe. *Semantics in Databases*. Springer Verlag, LNCS 2582, 2003.

Edited Proceedings

5. G. Ianni, D., Lembo, L. Bertossi, W. Faber, B. Glimm, G. Gottlob and S. Staab. "Reasoning Web. Semantic Interoperability on the Web". Springer LNCS 10370.
6. Jose Julio Alferes, Leopoldo Bertossi, Guido Governatori, Paul Fodor and Dumitru Roman. Rule Technologies Research, Tools, and Applications: 10th International Symposium, RuleML 2016 Stony Brook, NY, USA, July 69, 2016 Proceedings. Springer LNCS 9718, 2016.

7. M. Arenas and L. Bertossi. Proceedings of the 3rd Alberto Mendelzon Workshop on Foundations of Data Management (AMW 09), 2009. CEUR Proceedings 450.
8. L. Bertossi and H. Christiansen. Proceedings of 3rd Workshop on Logic in Databases (LID 09). 2009.
9. G. Navarro, L. Bertossi and Y. Kohayakawa. *Proceedings of the 4th IFIP International Conference on Theoretical Computer Science (TCS 2006)*. IFIP Springer Series, Springer, 2006.

Book Chapters (not proceedings)

10. L. Bertossi and L. Bravo. “Generic and Declarative Approaches to Data Quality Management”. In S. Sadiq (ed.), ‘Handbook of Data Quality - Research and Practice’, Springer-Verlag, Berlin Heidelberg, 2013, pp. 181-212.
11. L. Bertossi and G. Jayaraman. “Designing, Specifying and Querying Metadata for Virtual Data Integration Systems”. Proc. International Conference on Data Management in Grid and P2P Systems (Globe 2009), Springer LNCS 5697, pp. 72-84. Invited paper for keynote presentation.
12. L. Bertossi. “Inconsistent Databases”. In *Encyclopedia of Database Systems*, Springer, 2009, 6 pp.
13. L. Bertossi, A. Hunter and T. Schaub. “Introduction to Inconsistency Tolerance”. In *Inconsistency Tolerance*, Springer LNCS 3300, State of the Art Series, 2004, pp. 1-14.
14. L. Bertossi and L. Bravo. “Consistent Query Answers in Virtual Data Integration Systems”. In *Inconsistency Tolerance*. Springer LNCS 3300, 2004, pp. 42–83.
15. P. Barcelo, L. Bertossi and L. Bravo. “Characterizing and Computing Semantically Correct Answers from Databases with Annotated Logic and Answer Sets”. In *Semantics in Databases*, Springer LNCS 2582, 2003, pp. 1–27.
16. L. Bertossi and J. Chomicki. “Query Answering in Inconsistent Databases”. In *Logics for Emerging Applications of Databases*, J. Chomicki, G. Saake and R. van der Meyden (eds.), Springer, 2003, pp. 43-83.
17. L. Bertossi, J. Pinto and R. Valdivia. “Specifying Database Transactions and Active Rules in the Situation Calculus”. In *Logical Foundations for Cognitive Agents. Contributions in Honor of Ray Reiter*. F. Pirri and H. Levesque (eds.), Springer, June 1999, pp. 41–56.
18. M. Arenas and L. Bertossi. “The Dynamics of Database Views”. In *Transactions and Change in Logic Databases*, H. Decker, B. Freitag, M. Kifer and A. Voronkov (eds.), Springer, LNCS 1472, 1998, pp. 197–226.

Journal Publications

19. L. Bertossi and M. Milani. “Ontological Multidimensional Data Models and Contextual Data Quality”. Accepted subject to minor revisions by *ACM Journal of Data Quality*. Posted as Corr Arxiv Paper cs.DB/1704.00115.
20. Bertossi, L. and Babak, S. “Causes for Query Answers from Databases: Datalog Abduction, View-Updates, and Integrity Constraints”. To appear in *International Journal of Approximate Reasoning*. Corr Arxiv Paper cs.DB/1611.01711, 2016.
21. Z. Bahmani, L. Bertossi and N. Vasiloglou. “ERBlox: Combining Matching Dependencies with Machine Learning for Entity Resolution”. *Journal of Approximate Reasoning*, 2017, 83:118-141. DOI: 10.1016/j.ijar.2017.01.003.
22. Bertossi, L. and Bravo, L. “Consistency and Trust in Peer Data Exchange Systems”. *Theory and Practice of Logic Programming*, 2017, 17(2):148-204. doi:10.1017/S147106841600017X.
23. Bertossi, L. and Salimi, B. “From Causes for Database Queries to Repairs and Model-Based Diagnosis and Back”. *Theory of Computing Systems*, 2017, 61(1):191-232. DOI 10.1007/s00224-016-9718-9.
24. Bertossi, L. and Li, L. “Achieving Data Privacy through Secrecy Views and Null-Based Virtual Updates”. *IEEE Transactions on Data and Knowledge Engineering*, 2013, 25(5):987-1000.
25. Rodriguez, A., Bertossi, L. and Caniupan, M. “Consistent Query Answering under Spatial Semantic Constraints”. *Information Systems*, 2013, 38:244-263.
26. L. Bertossi, S. Kolahi and L. Lakshmanan. “Data Cleaning and Query Answering with Matching Dependencies and Matching Functions”. *Theory of Computing Systems*, 2013, 52(3):441-482.
27. J. Gardezi, L. Bertossi and I. Kiringa. “Matching Dependencies: Semantics and Query Answering”. *Frontiers of Computer Systems*, Springer, 2012, 6(3):278-292.
28. M. Caniupan and L. Bertossi. “The Consistency Extractor System: Answer Set Programs for Consistent Query Answering in Databases”. *Data & Knowledge Engineering*, 2010, 69(6):545-572.
29. L. Bertossi, L. Bravo, E. Franconi and A. Lopatenko. “Complexity and Approximation of Fixing Numerical Attributes in Databases under Integrity Constraints”. *Information Systems*, 2008, 33(4):407-434.
30. L. Bertossi. “Consistent Query Answering in Databases”. *ACM Sigmod Record*, June 2006, 35(2):68-76.
31. L. Bravo and L. Bertossi. “Disjunctive Deductive Databases for Computing Certain and Consistent Answers to Queries from Mediated Data Integration Systems”. *Journal of Applied Logic*, 2005, 3(2):329-367.

32. L. Bertossi and C. Schwind. “Analytic Tableaux for Querying Inconsistent Databases”. *Annals of Mathematics and Artificial Intelligence*, 2004, 40(1-2):5-35.
33. M. Arenas, L. Bertossi and J. Chomicki. “Answer Sets for Consistent Query Answers”. *Theory and Practice of Logic Programming*, 2003, 3(4&5):393-424.
34. M. Arenas, L. Bertossi, J. Chomicki, X. He, J. Spinrad and V. Raghavan. “Scalar Aggregation in Inconsistent Databases”. *Theoretical Computer Science*, 2003, 296(3):405-434.
35. M. Arenas and L. Bertossi. “Hypothetical Temporal Queries in Databases”. *Journal of Intelligent Information Systems*, 2002, 19(2):231-259.
36. L. Bertossi, M. Arenas and C. Ferretti. “SCDBR: An Automated Reasoner for Specifications of Database Updates”. *Journal of Intelligent Information Systems*, Kluwer, 1998, 10(3):253–280.
37. D. Fuller, S. Bocic and L. Bertossi. “Towards Efficient Partial Evaluation in Logic Programming”. *New Generation Computing*, 1996, 14(2):237–259.
38. C. Bastarrica, L. Bertossi and R. Valdivia. “Semantic Query Optimization: A Practical Case” (in Spanish). *Revista de la Sociedad Chilena de Ciencia de Computacion*, 1996, 1(1):31-44. (ISSN 0717-4276)
39. L. Bertossi and R. Reiter. “Circumscription and Generic Mathematical Objects”. *Fundamenta Informaticae*, 1994, 21(1-2):113–124.
40. L. Bertossi. “Circumscription in Data Logic for Data Type Specification”. *Journal of Logic and Computation*, 1994, 4(1):89–96.
41. L. Bertossi. “The Outer Capacity of an Internal Set Function”. *Zeitschrift für mathematische Logik und Grundlagen der Mathematik*, 1991, 37:571–573.
42. L. Bertossi. “The Formal Language L_t and Topological Products”. *Zeitschrift für mathematische Logik und Grundlagen der Mathematik*, 1990, 36:89–94.
43. L. Bertossi. “An Example of Convergence Rate in the Finite Elements Method” (in Spanish). *Revista de Matemáticas Aplicadas* (ISSN 0716-3096), 1987, 9(1):27-33.
44. L. Bertossi. “Chuaqui’s Definition of Probability in some Stochastic Processes”. *Revista Colombiana de Matemática*, 1985, 19:25-30.

Refereed Conference Proceedings

45. L. Bertossi. ”The Causality/Repair Connection in Databases: Causality-Programs”. To appear in Proc. SUM’17. Springer LNCS.
46. Bertossi, L. and Milani, M. “The Ontological Multidimensional Data Model in Quality Data Specification and Extraction (extended abstract and progress report)”. Proc. BICOD’17, Springer LNCS 10365, pp. 126-130.

47. Bertossi, L. and Milani, M. “The Ontological Multidimensional Data Model (extended abstract)”. Proc. AMW’17, CEUR-WS Proc. Vol-1912. Posted as Corr Arxiv Paper cs.DB/1703.03524. 5 pages.
48. Bahmani, Z. and Bertossi, L. “Enforcing Relational Matching Dependencies with Datalog for Entity Resolution”. Proc. FLAIRS, 2017.
49. Milani, M., Cali, A. and Bertossi, L. “Hybrid Approach to Query Answering under Expressive Datalog+”. Proc. RR’16, Springer LNCS 9898, 2016, pp. 144-158.
50. Milani, M. and Bertossi, L. “Extending Weakly-Sticky Datalog+/-: Query-Answering Tractability and Optimization”. Proc. RR’16, Springer LNCS 9898, 2016, pp. 128-143.
51. Salimi, B., Bertossi, L., Suciu, D. and Van den Broeck, G. “Quantifying Causal Effects on Query Answering in Databases”. Proc. 8th USENIX Workshop on the Theory and Practice of Provenance (TaPP’16). Corr Arxiv Paper cs.DB/1603.02705.
52. M. Milani, A. Cali, and L. Bertossi. “Query Answering on Expressive Datalog+- Ontologies”. Proc. Alberto Mendelzon on Foundations of Data Management (AMW’16). CEUR-WS Proc. Vol. 1644, 2016.
53. Salimi, B. and Bertossi, L. “Causes for Query Answers from Databases, Datalog Abduction and View-Updates: The Presence of Integrity Constraints”. Proc. FLAIRS, 2016. Posted as Corr Arxiv Paper cs.DB/1602.06458.
54. Bahmani, Z., Bertossi, L. and Vasiloglou, N. “ERBlox: Combining Matching Dependencies with Machine Learning for Entity Resolution”. Proc. of International Conference on Scalable Uncertainty Management (SUM’15). Springer LNAI 9310, 2015, pp. 399-414.
55. Salimi, B. and Bertossi, L. “Query-Answer Causality in Databases: Abductive Diagnosis and View-Updates”. Proc. of the UAI Workshop on Causal Inference, 2015. CEUR-WS Proc. Vol-1504, 2015. (Also posted as Corr Arxiv Paper cs.DB/1506.04299.pdf).
56. Milani, M. and Bertossi, L. “Ontology-Based Multidimensional Contexts with Applications to Quality Data Specification and Extraction”. Proc. International Web Rule Symposium (RuleML), Springer LNCS 9202, 2015, pp. 277-293.
57. Milani, M. and Bertossi, L. “Tractable Query Answering and Optimization for Extensions of Weakly-Sticky Datalog+”. Proc. Alberto Mendelzon on Foundations of Data Management (AMW’15). CEUR-WS Proceedings, Vol. 1378, 2015, pp. 101-105. Posted as Corr Arxiv Paper cs.DB/1504.03386.
58. Salimi, B. and Bertossi, L. “From Causes for Database Queries to Repairs and Model-Based Diagnosis and Back”. Proc. 18th International Conference on Database Theory (ICDT 2015). <http://drops.dagstuhl.de/opus/volltexte/2015/4994/pdf/21.pdf>. Extended version at: Corr Arxiv Paper cs.DB/1412.4311.
59. Bertossi, L. and Gardezi, J. “Tractable vs. Intractable Cases of Matching Dependencies for Query Answering under Entity Resolution”. Proc. of International Conference on Scalable Uncertainty Management (SUM’14), Springer LNCS 8720, 2014, pp 51-65.

60. Bertossi, L. and Salimi, B. “Unifying Causality, Diagnosis, Repairs and View-Updates in Databases”. Online Proc. First international Workshop on Big Uncertain Data (BUDA 2014), 2014, 6 pp. <http://www.sigmod2014.org/buda/?papers>. Also: <http://arxiv.org/abs/1405.4228>
61. Salimi, B. and Bertossi, L. “Causality in Databases: The Diagnosis and Repair Connections”. Online Proc. 15th International Workshop on Non-Monotonic Reasoning (NMR 2014), 2014, 9 pp. <http://www.kr.tuwien.ac.at/events/nmr14/proceedings.php>. Also <http://arxiv.org/pdf/1404.6857v2>
62. Bertossi, L. and Salimi, B. “Causality in Databases, Database Repairs, and Consistency-Based Diagnosis (extended abstract)”. Proc. Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2014), 2014, CEUR Proceedings Vol-1189, 3 pp. <http://ceur-ws.org/Vol-1189/>
63. Milani, M., Bertossi, L. and Ariyan, S. “Extending Contexts with Ontologies for Multidimensional Data Quality Assessment”. Proc. 5th International Workshop on Data Engineering meets the Semantic Web (DESWeb). In Data Engineering Workshops (ICDEW), 2014 IEEE 30th International Conference on Data Engineering, pp. 242 - 247. DOI: 10.1109/ICDEW.2014.6818333. *Corr ArXiv Paper cs.DB/1312.7373*
64. Ariyan, S. and Leopoldo Bertossi, L. “A Multidimensional Data Model with Subcategories for Flexibly Capturing Summarizability”. Proc. 25th International Conference on Scientific and Statistical Database Management (SSDBM’13), ACM Press, 2013, 12 pp.
65. Bertossi, L. and Gardezi, J. “On the Complexity of Query Answering under Matching Dependencies for Entity Resolution”. Proc. AMW 2013. CEUR Proceedings Vol-1087, 2013, 7 pp. *Corr ArXiv paper cs.DB/1304.7854*
66. Gardezi, J. and Bertossi, L. “Characterizing Some Tractable Cases Clean Query Answering under Entity Resolution via Matching Dependencies”. Proc. International Conference on Scalable Uncertainty Management (SUM’12), Springer LNAI 7520, pp. 180-193, 2012.
67. Gardezi, J. and Bertossi, L. “Query Rewriting using Datalog for Duplicate Resolution”. Proc. of the 2nd Workshop on the Resurgence of Datalog in Academia and Industry (Datalog 2.0), Springer LNCS 7494, pp. 86-98, 2012.
68. Malaki, A., Bertossi, L. and Rizzolo, F. “Multidimensional Contexts for Data Quality Assessment”. Proc. Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2012), CEUR Proceedings, Vol. 866, 2012, 14 pp.
69. Z. Bahmani, L. Bertossi, S. Kolahi and L. Lakshmanan. “Declarative Entity Resolution via Matching Dependencies and Answer Set Programs”. Proc. KR 2012, AAAI Press, AAAI Press, pp. 380-390.
70. M. Yaghmaie, L. Bertossi and S. Ariyan. “Repair-Oriented Relational Schemas for Multidimensional Databases”. Proc. EDBT 2012, ACM Press.

71. S. Ariyan and L. Bertossi. “Structural Repairs of Multidimensional Databases”. Proc. Alberto Mendelzon International WS of Foundations of Data Management (AMW 2011), CEUR Workshop Proceedings, Vol. 749, 2011.
72. J. Gardezi, L. Bertossi and I. Kiringa. “Matching Dependencies with Arbitrary Attribute Values: Semantics, Query Answering and Integrity Constraints”. Proc. International (EDBT/ICDT) Workshop of Logic in Databases (LID), ACM Press, Uppsala, Sweden, March 2011.
73. L. Bertossi, S. Kolahi and L. Lakshmanan. “Data Cleaning and Query Answering with Matching Dependencies and Matching Functions”. Proc. International Conference on Database Theory (ICDT), ACM Press, 2011.
74. L. Bertossi, F. Rizzolo and J. Lei. “Data Quality is Context Dependent”. Proc. VLDB WS on Enabling Real-Time Business Intelligence (BIRTE 2010), Springer LNBP 48, 2011.
75. M. Arenas and L. Bertossi. “On the Decidability of Consistent Query Answering”. Proc. of the Alberto Mendelzon WS on Foundations of Data Management (AMW 2010), CEUR-WS Proceedings, Vol-619, 2010, pp. 10.1–10.12.
76. L. Bertossi. “From Database Repair Programs to Consistent Query Answering in Classical Logic (extended abstract)”. Proc. The Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2009), CEUR-WS Proceedings, Vol-450, 2009, 15 pp.
77. L. Bertossi, L. Bravo and M. Caniupan. “Consistent Query Answering in Data Warehouses”. Proc. The Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2009). CEUR-WS Proceedings, Vol-450, 2009, 12 pp.
78. A. Rodriguez, L. Bertossi and M. Caniupan. “An Inconsistency Tolerant Approach to Querying Spatial Databases”. Proc. ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2008). ACM Press, 2008, 15 pp. Extended version: [Corr ArXiv paper cs.DB/1106.1478](http://arxiv.org/abs/cs.DB/1106.1478).
79. L. Bertossi and L. Bravo. “Information Sharing Agents in a Peer Data Exchange System”. Proc. First International Conference on Data Management in Grid and P2P Systems (Globe 2008), Springer LNCS 5187, pp. 70-81
80. L. Bertossi and L. Bravo. “The Semantics of Consistency and Trust in Peer Data Exchange Systems”. Proc. International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR 07), 2007, Springer LNCS 4790, pp. 107-122.
81. M. Caniupan and L. Bertossi. “The Consistency Extractor System: Querying Inconsistent Databases using Answer Set Programs”. Proc. Conference of Scalable Uncertainty Management Conference (SUM 07), Springer LNCS 4772, 2007, pp. 74-88.
82. F. Gagnon, B. Esfandiari and L. Bertossi. “A Hybrid Approach to Operating System Discovery using Answer Set Programming”. Proc. 10th IFIP/IEEE Symposium on

- Integrated Network Management (IM 07), IEEE Computer Society Press, 2007, pp. 391-400.
83. A. Lopatenko and L. Bertossi. “Complexity of Consistent Query Answering in Databases under Cardinality-Based and Incremental Repair Semantics”. *Proc. International Conference of Database Theory (ICDT 07)*, Springer LNCS 4353, 2007, pp. 179-193. Extended version at: [Corr Arxiv Paper cs.DB/0604002](http://arxiv.org/abs/cs.DB/0604002).
 84. A. Lopatenko and L. Bertossi. “Consistent Query Answering By Minimal-Size Repairs”. *Proc. 7th International Workshop on Database and Expert Systems Applications*, IEEE Computer Society Press, 2006, pp. 558-562. (Track: 2nd International Workshop on Logical Aspects and Applications of Integrity Constraints, LAAIC 06).
 85. L. Bravo and L. Bertossi. “Semantically Correct Query Answers in the Presence of Null Values”. In *EDBT 2006 Workshops*, T. Grust et al. (eds.), Springer LNCS 4254, 2006, pp. 336-357. (Track: Workshop on Inconsistency and Incompleteness in Databases, IIDB 06)
 86. M. Caniupan and L. Bertossi. “Optimizing Repair Programs for Consistent Query Answering”. *Proc. International Conference of the Chilean Computer Science Society (SCCC 05)*, IEEE Computer Society Press, 2005, pp. 3-12.
 87. L. Bertossi, L. Bravo, E. Franconi and A. Lopatenko. “Complexity and Approximation of Fixing Numerical Attributes in Databases under Integrity Constraints” . *Proc. 10th International Symposium on Database Programming Languages (DBPL 05)*. Springer LNCS 3774, 2005, pp. 263–277.
 88. L. Bertossi, L. Bravo, E. Franconi and A. Lopatenko. “Fixing Inconsistent Databases by Updating Numerical Attributes” . *Proc. Sixteenth International Workshop on Database and Expert Systems Applications*, IEEE Computer Society Press, 2005, pp. 854-860. (Track: 1st International Workshop on Logical Aspects and Applications of Integrity Constraints (LAAIC 05).
 89. L. Bertossi and L. Bravo. “Query Answering in Peer-to-Peer Data Exchange Systems”. In *Current Trends in Database Technology*. EDBT 2004 P2P&DB Workshop. Springer LNCS 3268, 2004, pp. 478-485.
 90. L. Bravo and L. Bertossi. “Consistent Query Answering under Inclusion Dependencies”. *Proc. 14th Annual IBM Centers for Advanced Studies Conference (CASCON 04)*, 2004, pp. 202-216.
 91. L. Bravo and L. Bertossi. “Logic Programs for Consistently Querying Data Integration Systems”. *Proc. International Joint Conference in Artificial Intelligence (IJCAI 03)*, Morgan Kauffmann Publishers, 2003, pp. 10-15.
 92. P. Barcelo and L. Bertossi. “Logic Programs for Querying Inconsistent Databases”. In *Practical Applications of Declarative Languages (PADL 03)*, Springer LNCS 2562, 2003, pp. 208-222.

93. L. Bertossi, J. Chomicki, A. Cortes and C. Gutierrez. “Consistent Answers from Integrated Data Sources”. In *Flexible Query Answering Systems (FQAS 02)*, Springer LNCS 2522, 2002, pp. 71–85.
94. P. Barcelo and L. Bertossi. “Repairing Databases with Annotated Predicate Logic”. *Proc. Ninth International Workshop on Non-Monotonic Reasoning (NMR 02)*, S. Benferhat and E. Giunchiglia (eds.), 2002, pp. 160–170.
95. L. Bertossi and C. Schwind. “Analytic Tableaux and Database Repairs: Foundations”. In *Foundations of Information and Knowledge Systems (FoIKS 02)*, Springer LNCS 2284, 2002, pp. 32-48.
96. M. Arenas, L. Bertossi and J. Chomicki. “Scalar Aggregation in FD-Inconsistent Databases”. In *Database Theory - ICDT 2001*. Springer LNCS 1973, 2001, pp. 39 - 53.
97. L. Bertossi and C. Schwind. “An Analytic Tableaux based Characterization of Database Repairs for Consistent Query Answering (preliminary report)”. In *Working Notes of the IJCAI’01 Workshop on Inconsistency in Data and Knowledge*, AAAI Press, 2001, pp. 95 – 106.
98. M. Arenas, L. Bertossi and J. Chomicki. “Specifying and Querying Database Repairs using Logic Programs with Exceptions”. In *Flexible Query Answering Systems. Recent Developments (FQAS 00)*. Springer, 2000, pp. 27–41.
99. A. Celle and L. Bertossi. “Querying Inconsistent Databases: Algorithms and Implementation”. In *Computational Logic-CL2000*, Stream: 6th International Conference on Rules and Objects in Databases (DOOD 00). Springer LNCS 1861, 2000, pp. 942 – 956.
100. M. Arenas, L. Bertossi and M. Kifer. “Applications of Annotated Predicate Calculus to Querying Inconsistent Databases”. In *Computational Logic-CL2000*, Stream: 6th International Conference on Rules and Objects in Databases (DOOD 00). Springer LNCS 1861, 2000, pp. 926 – 941.
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102. M. Arenas, L. Bertossi, L. Bravo, L. Gallardo and A. Sydow. “Environmental Information System for Analysis and Forecast of Air Pollution (Application to Santiago de Chile)”. *Proc. of the International Conference on Environmental Modeling and Simulation (ICEMS 00)*, Simulation Councils Inc., 2000, pp. 71–75.
103. M. Arenas, L. Bertossi and J. Chomicki. “Consistent Query Answers in Inconsistent Databases” . *Proc. ACM Symposium on Principles of Database Systems (PODS 99)*, ACM Press, 1999, pp. 68–79.
104. C. Mareco and L. Bertossi. “Specification and Implementation of Temporal Databases in a Bitemporal Event Calculus”. In *Advances in Conceptual Modeling*, Springer LNCS 1727, 1999, pp. 74–85.

105. M. Arenas, L. Bertossi and J. Chomicki. “Query Evaluation in Almost Consistent Databases Using Residues”. *Proc. International Conference of the Chilean Computer Science Society (SCCC 98)*. IEEE Computer Society Press, 1998, pp. 8–14.
106. L. Bertossi, J. Pinto and R. Valdivia. “Specifying Active Databases in the Situation Calculus”. *Proc. International Conference of the Chilean Computer Science Society (SCCC 98)*. IEEE Computer Society Press, 1998, pp. 32–39.
107. M. Arenas and L. Bertossi. “Hypothetical Temporal Reasoning with History Encoding (Extended Abstract)”. *Proc. ESSLLI-98 Workshop on Reasoning about Actions: Foundations and Applications*, G. De Giacomo and D. Nardi (eds.), 1998, pp. 1–15.
108. M. Arenas and L. Bertossi. “Hypothetical Temporal Queries in Databases”. *Proc. 5th International Workshop on Knowledge Representation meets Databases (KRDB 98): Innovative Application Programming and Query Interfaces*, A. Borgida, V. Chaudhuri, M. Staudt (eds.), 1998, pp. 4.1–4.8.
109. L. Bertossi, J. Pinto, P. Saez, D. Kapur and M. Subramaniam. “Automating Proofs of Integrity Constraints in the Situation Calculus”. In *Foundations of Intelligent Systems (ISMIS 96)*, Springer LNAI 1079, 1996, pp. 212–222.
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111. B. Siu and L. Bertossi. “Answering Historical Queries en Databases (Extended Abstract)”. *Proc. XVI International Conference of the Chilean Computer Science Society (SCCC 96)*, M. V. Zelkowitz and P. Straub (eds.), Sociedad Chilena de Ciencia de Computacion, 1996, pp. 56-66.
112. T. Bedrax-Weiss and L. Bertossi. “Underlying Semantics for the Assessment of Reiter’s Solution to the Frame Problem”. In *Advances in Artificial Intelligence (SBIA 95)*, Springer LNAI 991, 1995, pp. 59–68.
113. L. Bertossi and R. Reiter. “On the Concept of Generic Object: A Nonmonotonic Reasoning Approach and Examples”. In *Logics for Artificial Intelligence (JELIA 94)*, Springer LNAI 838, 1994, pp. 347–363.
114. T. Bedrax-Weiss and L. Bertossi. “Assessment of Reiter’s General Monotonic Solution to the Frame Problem and its Applicability to Database Updates”. *Proc. Workshop on Logic and Change at ECAI 94*, C. Schwind (ed.), 1994, pp. 5-18.
115. L. Bertossi and C. Ferretti. “SCDBR: A Reasoner for Specifications in the Situation Calculus of Database Updates”. In *Temporal Logic*, Springer LNAI 827, 1994, pp. 543–545.
116. L. Bertossi and R. Reiter. “Circumscription and Generic Mathematical Objects”. *Proc. 4th International Workshop on Nonmonotonic Reasoning (NMR 92)*, D. Etherington and H. Kautz (eds.). pp. 28-33.

117. R. Chuaqui and L. Bertossi. “Approximation to Truth and the Theory of Errors”. In *Methods in Mathematical Logic*, Springer Lecture Notes in Mathematics 1130, Springer, 1985, pp. 13–31.
118. L. Bertossi. “Factual Probability and Brownian Motion” (in German). *Abstracts of the 7th International Congress on Mathematical Logic*, Hutteger OHG Verlag, Vol.1, 1983, pp. 202-209.

Other Publications

119. L. Bertossi and F. Rizzolo. “Contexts and Data Quality Assessment”. Corr Arxiv Paper cs.DB/1608.04142, 2016.
120. A. Lopatenko and L. Bertossi. “Complexity of Consistent Query Answering in Databases under Cardinality-Based and Incremental Repair Semantics (extended version)”. Extended version of ICDT 2007 paper. Corr Arxiv Paper cs.DB/1605.07159, 2016.
121. L. Bertossi and J. Gardezi. “Tractable vs. Intractable Cases of Matching Dependencies for Query Answering under Entity Resolution”. Corr ArXiv paper cs.DB/1309.1884, 2013.
122. A. Rodriguez, L. Bertossi and M. Caniupan. “Consistent Query Answering under Spatial Semantic Constraints”. Corr ArXiv paper cs.DB/1106.1478, 2011.
123. Gardezi, J. and Bertossi, L. “Query Answering under Matching Dependencies for Data Cleaning: Complexity and Algorithms”. Corr ArXiv paper cs.DB/1112.5908, 2011.
124. L. Bertossi. “20 Years in Computing”. *BITS Magazine*, University of Chile, 2011. 14 pp. http://dcc.comopapel.com/revista_bits_de_ciencia/5/
125. L. Bertossi. “Some Research Directions in Consistent Query Answering: A Vision”. In *Proc. EDBT WS on Inconsistency and Incompleteness in Databases (IIDB 06)*, 2006.
126. L. Bertossi, J. Chomicki, P. Godfrey, Ph. Kolaitis, A. Thomo and C. Zuzarte. “Exchange, Integration and Inconsistency of Data: Report on the ARISE/NISR Workshop”. *ACM Sigmod Record*, 2005, 34(3):87-90.
127. L. Bertossi and A. Celle. “Information Technology in Chile”. Report requested by European Union Committee for the Information Society. 2000.
128. J. Roddick, L. Al-Jadir, L. Bertossi, Marlon Dumas, Florida Estrella, Heidi Gregersen, Kathleen Hornsby, Jens Luffer, Federica Mandreoli, Tomi Mnnist, Enric Mayol and Lex Wedemeijer. “Evolution and Change in Data Management - Issues and Directions”. *ACM Sigmod Record*, 2000, 29(1):21-25.
129. L. Bertossi and J. Pinto. “Computational Logic in Chile”. *Computational Logic. Newsletter of the European Network in Computational Logic*, 1995, 2(2):29-31.

130. L. Bertossi. “Remarks on the Mathematical Activity” (in Spanish). *Revista Apuntes de Ingenieria*, Escuela de Ingenieria, Pontificia Universidad Catolica de Chile, 47, 1993, pp. 29-38.
131. L. Bertossi. “Current Trends in Mathematics” (in Spanish). *Revista Universitaria*, Pontificia Universidad Catolica de Chile, 23, 1988.
132. L. Bertossi. “Some Problems in Computational Complexity Theory” (in Spanish). In *En Chile Tambien Hay Ciencia*, J. Ihoda, J. Melnick, S. Melnick (eds.), Univ. de Chile, 1986, pp. 197-205.
133. L. Bertossi, I. Mikenberg and V. Marshall. “Foundations of Mathematics” (in Spanish). Facultad de Matematicas, PUC, 1985, 250 pp.
134. L. Bertossi. “Introduction to Nonstandard Analysis and its Applications in Probability” (in Spanish). *Notas Matematicas 14*, Pontificia Universidad Catolica de Chile, 1983, 73 pp. (survey monograph).
135. L. Bertossi. “Introduction to Factor Analysis and its Applications with SPSS” (in Spanish). Technical Report, ECOM, 1976, 200 pp.

7 Keynote Conference Presentations and Tutorials

1. Tutorial. “Declarative Approaches to Data Quality Assessment and Cleaning”. 31st British International Conference on Databases (BICOD), 10-12 July 2017, London, UK.
2. “Datalog± Multidimensional Ontologies and Data Quality”. Gottlob Celebration WS, Genova, Dec. 2016.
3. ”ERBlox: Combining Matching Dependencies with Machine Learning for Entity Resolution”. CLEI’15, Oct. 2015, Arequipa, Peru.
4. “ERBlox: Combining Matching Dependencies with Machine Learning for Entity Resolution”. Keynote presentation. XII Congreso Internacional De Ingenieria de Software y Sistemas De Informacion. Nov. 2015, Trujillo, Peru.
5. “Ontology-Based Data Access Subjects, Issues and Trends”. Tutorial. XII Congreso Internacional De Ingenieria de Software y Sistemas De Informacion. Nov. 2015, Trujillo, Peru.
6. “Machine Learning: Some Techniques in Statistical Learning and Modeling”. Tutorial at the CIWS Summer School, PUC, Santiago de Chile, Jan. 10, 2015.
7. “Datalog Extensions as Ontology Representation Languages and their Applications”. Keynote presentation at the Ninth Latin American Workshop on Logic/Languages, Algorithms and New Methods of Reasoning (LANMR 2014), Valle de Bravo, Mexico, Nov. 2014.

8. “Ontology-Based Data Access Subjects, Issues and Trends”. Keynote presentation at COMTEL, Lima, Peru, October 2014.
9. “Semantic Constraints for Data Quality Assessment and Cleaning”. Keynote presentation at COMTEL, Lima, Peru, October 2014.
10. “Logica y Probabilidad en Representacion de Conocimiento” (in Spanish). Keynote presentation at Jornadas Rolando Chuaqui, Santiago de Chile, October 2014.
11. “Statistical Relational Learning with Logical Constraints”. Four session mini-course at School of Engineering, P. Catholic University of Chile (PUC), Santiago de Chile, June-July 2014.
12. “Inconsistency Management in Data and Knowledge Bases”. Compact, 2-week PhD course. University of Calabria, Rende, Nov. 2013.
13. “Inconsistency Management in Data and Knowledge Bases”. Compact, 2-week PhD course (with Domenico Lembo and Antonella Poggi). University of Rome, La Sapienza, Oct. 2013.
14. “Data Integration”. Compact, 3-week PhD course. Politecnico Di Milano, Milano, Italy, June 2013.
15. “Evolution and Change in Relational Databases An Overview of Some Issues”. Keynote presentation at Dagstuhl Seminar Foundations and Challenges of Change and Evolution in Ontologies (12441), Schloss Dagstuhl, Germany, Oct. 28 - Nov. 02, 2012.
16. “Research in Computer Science and IT: How and Where Are We (Going)? A Chilean Perspective”. Keynote presentation at Encuentros 2011, Berkeley, Nov. 2011.
17. “Semantic Constraints for Data Quality Assessment and Cleaning”. Keynote presentation at the International Conference of the Chilean Computer Science Society (SCCC’11). Curico, Chile, Nov. 2011.
18. “Semantic Constraints for Data Quality Assessment and Cleaning”. Tutorial at the Italian Database Conference (SEBD 11). Maratea, June 2011.
19. “Using Answer Set Programs to Specify Virtual Data Integration Systems under the LAV Approach: Obtaining Consistent Query Answers”. Keynote presentation at the Fifth Latin American Workshop on Non-Monotonic Reasoning 2009, Tlaxcala, Mexico, Nov. 2009.
20. “Data Integration and Data Quality”. Presentation at IBM CAS University Days, Toronto, September 2009.
21. “Designing, Specifying and Querying Metadata for Virtual Data Integration Systems”. Keynote presentation at International Conference on Data Management in Grid and P2P Systems (Globe 2009), Linz, Austria, September 2009.

22. “From Consistent Query Answering to Query Rewriting: A Detour Around Answer Set Programs”. Keynote presentation at Logic in Databases Workshop (LID 08), Rome, May 2008.
23. “Data Integration”. Tutorial at 2nd Workshop on Foundation on Databases and the Web, Punta del Este, Uruguay, October 23-26, 2007.
24. “Consistent Query Answering in Relational and XML Databases”. Plenary talk, Workshop on the Web, Universitat Pompeu Fabra, Barcelona, January 9, 2007.
25. “The Logics of Consistent Query Answering in Databases”. Advanced Course at European Summer School in Logic, Language and Information (ESSLLI 2005), Edimburgh, August 2005.
26. “Consistent Query Answering in Databases”. Tutorial at the Italian Database Conference (SEBD 04). Sardinia, June 2004.
27. “Description Logics and its Applications”. Tutorial at the International Conference of the Chilean Computer Science Society (SCCC), Arica, Chile, November 2004.
28. “Virtual Data Integration”. Tutorial at the International Conference of the Chilean Computer Science Society (SCCC), Chillan, Chile, November 2003.
29. “Datawarehouses and Data Mining”. X National Congress of Systems Engineering Students. Cartagena de Indias, Colombia, May 2001.

8 Invited Presentations (other)

1. “The Ontological Multidimensional Data Model in Datalog[±]”. Talk at Universidad Nacional del Sur, Bahia Blanca, Argentina, June 2017.
2. “Datalog[±] Multidimensional Contexts for Data Quality: Quality Data Extraction and Query Answering Algorithms”. Politecnico di Milano, Italy, Dec. 1st, 2016.
3. “Extending Weakly-Sticky Datalog[±]: Query-Answering Tractability and Optimization”. Seminar of the Center for Semantic Web Research, P. Catholic University of Chile, July 2016.
4. “ERBlox: Combining Matching Dependencies with Machine Learning for Entity Resolution”. Universidad del Bio-Bio, Concepcion, Chile, May 2015.
5. “Logical and Probabilistic Knowledge Representation and Reasoning”. Cognitive Science Seminar, Carleton University, January 2015.
6. “Contexts and Multidimensional Data Quality Assessment and Cleaning”. Seminar of the Center for Semantic Web Research, University of Chile, June 2014.
7. “Semantic Constraints, Contexts and Multidimensional Data Quality Assessment and Cleaning”. Departmental Seminar, Dept. of Computer Science, P. Catholic University of Chile (PUC), Santiago de Chile, June 2014.

8. “From Hilbert to Turing and beyond”. Mathematical Engineering Seminar, P. Catholic University of Chile (PUC), Santiago de Chile, June 2014.
9. “Datalog \pm : Its Languages and Evaluation Issues”. Talk at LogicBlox, Atlanta, April, 2014.
10. “Contexts and Multidimensional Data Quality Assessment and Cleaning”. University of Toronto, January 2014.
11. “Matching Dependencies for Entity Resolution in Databases”. University of Rome, La Sapienza, Italy, Sept. 2013.
12. “Semantic Constraints for Data Quality Assessment and Cleaning”. University of Milano (Bicocca), Milano, Italy, June 2013.
13. “Entity Resolution with Matching Dependencies: Beyond Certainty”. BIN AGM, Vancouver, May 2013.
14. “Query Rewriting in Datalog for On-The-Fly Entity Resolution”. BIN AGM, Toronto, Nov. 2012.
15. “Business Intelligence: Recent Experiences in Canada”. Universidad del Desarrollo (UDD), Santiago, Chile, August 2012.
16. “Multidimensional Contexts for Data Quality Assessment”. University of Chile, Santiago, Chile, August 2012.
17. “Semantic Constraints for Data Quality Assessment and Cleaning”. Simon Fraser University, Vancouver, Canada, July 2012.
18. “Repair-Oriented Relational Schemas for Multidimensional Databases”. University of Calabria, Cosenza/Rende, Italy, May 2012.
19. “Repair-Oriented Relational Schemas for Multidimensional Databases”. Polytechnic University of Milan, Italy, April 2012.
20. “Contexts for Data Quality Assessment and Cleaning”. BIN/IBM WS, IBM Watson Research Center, NY, February, 2012.
21. “Information Agents in a Peer Data Exchange System”. University of Calabria, Cosenza, June 2011.
22. “Information Agents in a Peer Data Exchange System”. University of Washington, Seattle, April 2011.
23. “Multidimensional Databases: Consistency Handling and Contexts”. Seminar series, Universidad de la Republica, Montevideo, Uruguay, May 2011.
24. “Some Scientific Challenges in Data Management for Business Intelligence”. Oxford University, England, February 2011.

25. "Some Scientific Challenges in Data Management for Business Intelligence". Birkbeck College London, England, February 2011.
26. "From Consistent Query Answering to Query Rewriting: A Detour Around Answer Set Programs". University of British Columbia, October 2009.
27. "Information Integration and Business Intelligence". Universidad del Bio-Bio, Concepcion, Chile, June 2009.
28. "Information Integration and Business Intelligence". Universidad Catolica de San Pablo, Arequipa, Peru, May 2009.
29. "Information Integration and Business Intelligence". Universidad Peruana Union, Juliaca, Peru, May 2009.
30. "Information Agents in a Peer Data Exchange System". Universite du Quebec en Outaouais, Feb. 2009.
31. "Data Quality in Information Integration and Business Intelligence". Adolfo Ibañez University, Chile, Dec. 2008.
32. "From Hilbert to Turing and beyond". University of Concepcion, Chile, Dec. 2008.
33. "Information Agents in a Peer Data Exchange System". University of Bio-Bio, Chile, Dec. 2008.
34. "Dealing with Inconsistent Data Sources: Scientific and Technical Challenges". University College Dublin, Ireland, Sept. 2008.
35. "Taking Advantage of Answer Set Programs for Consistent Query Answering". 1st Symposium on XML, Logic, and Automata, Grantown-on-Spey, Scotland, 18-20 July, 2008.
36. "Information Agents in a Peer Data Exchange System". University of Chile, Santiago, Chile, May 2008.
37. "Information Agents in a Peer Data Exchange System". University of Rome 3, Rome, Italy, May 2008.
38. "Virtual Data Integration and Global Consistency". Tutorial at Catholic University of Chile, Dec. 2007.
39. "Virtual Data Integration". Tutorial at University of Concepcion, Chile, Dec. 2007.
40. "The Semantics of Consistency and Trust in P2P Data Exchange Systems". Universidad de la Republica, Uruguay, October 2007.
41. "Consistent Query Answering in Databases Under Cardinality-Based Repair Semantics". University of Edinburgh, May 2007.
42. "Consistent Query Answering in Databases Under Minimum Cardinality Semantics". University of Toronto, Dec. 2006.

43. “Consistent Query Answering in Databases: Recent Developments”. University of Concepcion, Nov. 2006.
44. “Static and Incremental Complexity of Consistent Query Answering under Attribute- and Cardinality-based Repairs”. Freiburg University, Germany, July 2006.
45. “Consistent Query Answering from Inconsistent Databases”. University of Talca, Chile, April 2006.
46. “Cardinality-based Semantics for Consistent Query Answering: Incremental and Parameterized Complexity”. Workshop ‘Logic and Databases’. Isaac Newton Institute for Mathematical Sciences, Cambridge, February 2006.
47. “Consistent Query Answering in Databases”. Simon Fraser University, Vancouver, March 2005.
48. “Consistent Query Answering in Virtual Data Integration Systems”. Simon Fraser University, Vancouver, March 2005.
49. “Consistent Answers from Integrated Data Sources”. University at Buffalo, April 2005.
50. “Consistent Query Answering in Databases”. University of Akureyri, Iceland, April 2005.
51. “Consistent Answers from Integrated Data Sources”. Queen’s University, May 2005.
52. “Complexity and Approximation of Fixing Numerical Attributes in Databases Under Integrity Constraints”. Technical University of Vienna, August 2005.
53. “Complexity and Approximation of Fixing Numerical Attributes in Databases Under Integrity Constraints”. Ottawa University, December 2005.
54. “Query Answering in P2P Data Exchange Systems”. Dagstuhl Seminar on Logic-Based Information Agents, Dagstuhl, April 2004.
55. “Common Sense Reasoning in Knowledge-Based Systems”. Cognitive Science Seminar, Cognitive Science Program at Carleton University, January 2003.
56. “Consistently Querying Data Integration Systems”. Free University Bolzano, Italy, May 2003.
57. “Semantically Correct Answers from Inconsistent Databases”. Dagstuhl Seminar on Inconsistency Tolerance, June 2003.
58. “Implementing Consistent Query Answering in Databases”. IBM Center for Advanced Studies, Toronto Lab., September 2003.
59. “Obtaining Consistent Answers from Databases”. Universite du Quebec en Outaouais, October 2003.
60. “Querying Inconsistent Databases”. Ottawa University, December 2001.

61. "Querying Inconsistent Databases". University of Chile, May 2002.
62. "Consistent Answers from Integrated Data Sources". Concordia University, Montreal, Canada, October 2002.
63. "Specifying Database Repairs for Querying Inconsistent Databases". State University of New York at Buffalo, September 2000.
64. "Answer Sets for Consistent Query Answering in Inconsistent Databases". Dagstuhl-Seminar on Semantics of Databases. Dagstuhl, Germany, January 2001.
65. "Inconsistency Issues in Databases". II Chilean/German Workshop on Information Technology, GMD-FIRST Berlin, January 2001.
66. "Querying Inconsistent Databases". Universite de Marseille, February 2001.
67. "Querying Inconsistent Databases". Carleton University, Ottawa, Canada, March 2001.
68. "Querying Inconsistent Databases". University of Toronto, Canada, November 2001.
69. "Querying Inconsistent Databases". York University, Toronto, Canada, February 2000.
70. "Querying Inconsistent Databases". Simon Fraser University, Vancouver, Canada February 2000.
71. "Implementing Consistent Query Answering in Inconsistent Databases". Dagstuhl-Seminar on Logic for Emerging Applications of Databases. Dagstuhl, Germany, July 2000.
72. "Handling Inconsistency in Databases: An Approach from Computational Logic". II Jornadas Rolando Chuaqui. School of Mathematics, Catholic University of Chile, May 2000.
73. "Research on Information Technology in Chile". In European Union - Latin America Initiative for Cooperation in Information Society Technologies. IST Info Day in Buenos Aires, June 2000.
74. "Specifying Database Repairs for Querying Inconsistent Databases". Universidad de Lujan, Argentina, June 2000.
75. "Consistent Query Answering in Inconsistent Databases". University of Paris (Orsay), January 1999.
76. "Specifying Temporal Databases in an Extended Event Calculus". University of Marseille (Luminy), February 1999.
77. "Specifying Database Updates in the Situation Calculus". Seminar Institute FIRST of the GMD, Adlershoff, Berlin, Germany, February 1998.
78. "Using History Encoding for Answering Historical Queries in Databases". University of Marseille (Luminy), February 1998.

79. “Using History Encoding for Answering Historical Queries in Databases”. Instituto Tecnico Superior, Lisbon, Portugal, February 1998.
80. “Applications of the Situation Calculus to Specification of Database Updates” and “Querying Inconsistent Databases”. University of Ceara, Fortaleza, Brazil, November 1998.
81. “Scientific Aspects of Computing”. International Conference of the Chilean Computer Science Society. Antofagasta, November 1998.
82. “Answering Historical Queries in Databases”. Department of Computer Science, University of Marseille (Luminy), France, January 1997.
83. “Answering Historical Queries in Databases”. Department of Computer Science, University of Torino, Italy, February 1997.
84. “Proving Database Integrity Constraints by Automated Induction”. University of Brasilia, Brazil, February 1997.
85. “Proving Database Integrity Constraints by Automated Induction”. New Jersey Institute of Technology, USA, May 1997.
86. “Specifying Database Updates in the Situation Calculus”. Distributed Systems Colloquium, Technical University of Berlin, October 1997.
87. “Using History Encoding for Answering Historical Queries in Databases”. Database Colloquium, University of Freiburg, Germany October 1997.
88. “Specifying the Dynamics of Database Views”. Database Colloquium, Technical University Cottbus, Germany, December 1997.
89. “Proving Database Integrity Constraints by Automated Induction”. Workshop on Deduction. Humboldt University, Berlin, Germany, December 1997.
90. “Proving Integrity Constraints with a Rewrite Rule based Theorem Prover”. Dagstuhl-Seminar on Automation of Mathematical Induction, 1995.
91. “Applications of the Situation Calculus to Database Updates Specifications: Research Proposal”. Workshop on Automation of Proof by Mathematical Induction. Eleventh National Conference on Artificial Intelligence, AAAI-93, 1993.
92. “Nonmonotonic Reasoning” and “Circumscription and Generic Mathematical Objects”. Seminar on Computational Logic, Instituto de Estudios Avanzados, IVIC, Caracas, Venezuela, 1992.

9 Supervision

Postdocs

- Completed

1. Flavio Rizzolo. Carleton University, July 2009 - June 2011.

PhD Students

- Completed

1. Mostafa Khaghani-Milani. PhD Program in Computer Science, Carleton University. January 2017.
2. Babak Salimi. “Query-Answer Causality in Databases and its Connections with Reverse Reasoning Tasks in Data and Knowledge Management”. PhD in Computer Science, Carleton University. Dec. 2015.
3. Mohammad (Sina) Ariyan. “A Multidimensional Data Model with Subcategories for Expressing and Repairing Summarizability”. PhD in Computer Science, Carleton University, 2014.
4. Loreto Bravo. “Handling Inconsistency in Databases and Data Integration Systems”. PhD in Computer Science, Carleton University. 2007.
5. Monica Caniupan. “Optimizing and Implementing Repair Programs for Consistent Query Answering in Databases”. PhD in Computer Science, Carleton University. 2007.
6. Pablo Saez. “Proving Database Integrity Constraints by Automated Induction”. Doctor in Sciences of Engineering, PUC. 1999.

- In course

6. Zeinab Bahmani. PhD Program in Computer Science, Carleton University. PhD candidate.
7. Jaffer Gardezi. PhD Program in Computer Science, University of Ottawa. Co-supervision. PhD candidate.
8. Pourya Saljoughi. PhD Program in Computer Science, Carleton University.
9. Zahra Hasanzadeh. PhD Program in Computer Science, Carleton University.

Masters Students

- Completed

1. Arthur E. Kathan, “Diagnosis of Multiple Faults from First Principles Using Compact Representations”, Master of Science in Electrical Engineering Thesis, University of Wisconsin-Milwaukee. Graduated, Dec. 1990.
2. Tania Bedrax-Weiss. “Assessment of Reiter’s Solution to the Frame Problem for Database Updates” (in Spanish). Magister in Sciences of Engineering, PUC. Graduated, Dec. 1995.²
3. Bernardo Siu. “Historical Queries in Databases” (in Spanish). Magister in Sciences of Engineering, PUC. Graduated, May 1996.

²The Magister in Engineering Sciences Program at the PUC requires a thesis based on original research

4. Karina Bottinelli. “Design and Implementation of a Computational System based on Metacognition for Learning Logic” (in Spanish). Magister in Sciences of Engineering, PUC. Graduated, Aug. 1997.
5. Marcelo Arenas. “Dynamic and Consistency Issues in Databases” (in Spanish). Magister in Sciences of Engineering, PUC. Graduated, July 1998.
6. Carlos Mareco. “Specification and Implementation of Temporal Databases in an Extended Event Calculus” (in Spanish). Magister in Sciences of Engineering, PUC. Graduated, June 1999.
7. Sandra Valdes. “Design and Implementation of a Datawarehouse for Supporting Loan Assignment in a Banking Environment” (in Spanish). Computer Engineering Professional Title Thesis, PUC. September 1999.
8. Alexander Celle. “Implementation of Consistent Answers in Inconsistent Databases”. Magister in Sciences of Engineering, PUC. Graduated, June 2000.
9. Rosa Maria Alvarez. “Using Semantic Information for Optimizing Data Mining Algorithms” (in Spanish). Magister in Sciences of Engineering, University of Concepcion. Graduated, September 2000.
10. Desiree Galaz. “Genome Databases” (in Spanish). Computer Engineering Professional Title Thesis, PUC. December 2001.
11. Loreto Bravo. “Modeling Ozone Concentration and Diffusion in Santiago” (in Spanish). Transportation Engineering Professional Title Thesis, PUC. May 2002.
12. Alvaro Cortes. “Consistent Answers from Integrated Data Sources” (in Spanish). Magister in Sciences of Engineering, PUC. Graduated, June 2002.
13. Pablo Barcelo. “Applications of Annotated Predicate Calculus and Logic Programs to Querying Inconsistent Databases”. Magister in Sciences of Engineering, PUC. Graduated, August 2002.
14. Sandra Villalobos. “Inconsistency Handling in XML Databases”. Magister in Sciences of Engineering, PUC. Graduated, October 2003.
15. Gayathri Jayaraman. “A Mediator-Based Data Integration System for Query Answering using an Optimized Extended Inverse Rules Algorithm”. Masters Program in Computer Engineering, Carleton University. Graduated, May 2010.
16. Lechen Li. “Achieving Data Privacy Through Virtual Updates”. Masters Program in Computer Science, Carleton University. Graduated, January 2011.
17. Mahkameh Yaghmaie. “Repair-Oriented Relational Schemas for Multidimensional Databases”. Masters Program in Computer Science, Carleton University. December 2011.
18. Aida Maleki. “Multidimensional Contexts for Data Quality Assessment”. Masters Program in Computer Science, Carleton University. January 2013.

External Member of Graduate Thesis Committees: Anahi Gajardo-Schulz (PhD. Ecole Normale Supérieure de Lyon & University of Chile, 2001), Dongming Liang (PhD.

York University, Canada, 2004), Eric Evangelista (MSc. Simon Fraser University, 2004), Andrei Lopatenko (PhD. University of Manchester, England, 2006), Marco Ruzzi (PhD. University of Rome, La Sapienza, 2006), Ariel Fuxman (PhD. University of Toronto, 2006), Agnes Boskovitz (PhD. Australian National University, Canberra, 2007), Solmaz Kolahi (PhD. University of Toronto, 2007), Mehedi Masud (PhD. Ottawa University, 2009), Ali Kiani Tallaei (PhD. Concordia University, 2010), Wei Jiang (PhD. University of Waterloo, 2010), Xing Tan (PhD. University of Toronto, 2011), Ahmad Altamini (PhD. Concordia University, 2012), Dmitriy Zheleznyakov (PhD. Free University of Bolzano-Bozen, Italy, 2013), Jaroslav Szlichta (PhD. York University, Toronto, Canada, 2013), Jiewen Wu (PhD. University of Waterloo, 2013), Rana Awada (PhD. Ottawa University, 2014), Simon Razniewski (PhD. Free University of Bolzano-Bozen, Italy, 2014), Chelsea Battell (MSc. Math. Ottawa University, 2016). Daniel Hernandez (Dr. Ciencia de Computacion, U. de Chile, 2017).

10 Conference and Workshop Organization

1. Member Scientific Advisory Board of the “Reasoning Web Summer School” (RW 2017).
2. PC-cochair and organizer. ‘Uncertain Reasoning’ track at Flairs, Marco Island, Florida, USA, 2017.
3. PC-cochair. 10th International Web Rule Symposium (RuleML), July 2016, Stony Brook University, New York, USA.
4. General Chair. The Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2013). Puebla, Mexico, 2013.
5. Member of the Steering Committee of the “Alberto Mendelzon” International Workshop on Foundations of Data Management, since 2005.
6. The Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2009). Arequipa, Peru, May 2009.
7. II Workshop on Foundations of Databases and the Web (AMW). Punta del Este, Uruguay, October 23-26, 2007.
8. Workshop on Foundations of Databases and the Web. In honor to Alberto Mendelzon. San Rafael Glacier, Chile, 2006.
9. Second International Workshop on Exchange and Integration of Data (EID 2006). Brixen-Bressanone, June, 2006.
10. Workshop on Exchange and Integration of Data. Toronto, 2004.
11. Dagstuhl-Seminar Nr. 03241. Inconsistency Tolerance in Database, Knowledgebase and Software Systems. June 2003.
12. Steering Committee. Winter School on Semantics and Applications (WSSA 2003). Montevideo, Uruguay, 2003.

13. Latin American Committee for Local Arrangements. International Joint Conference on Artificial Intelligence (IJCAI 2003). Acapulco, Mexico, 2003.
14. 2nd Chilean-German Workshop on Information Technology, Berlin, 2001.
15. Dagstuhl-Seminar Nr. 01021. Semantics of Databases. January 2001.
16. Workshop on Inconsistency in Data and Knowledge. International Joint Conference on Artificial Intelligence (IJCAI 2001), Seattle, 2001.
17. Encuentro Chile Ciencia 2000. Santiago de Chile, 2000.
18. NSF/CONICYT Workshop on Collaborative Research in Information Technology. Viña del Mar, Chile, 2000.
19. Chilean-German Kickoff Workshop on Information Technology, Santiago de Chile, 1999.
20. Chilean-French Workshop on Complex Mathematical Systems. Santiago de Chile, 1999.
21. II Jornadas Chilenas de Computacion, Chilean Computer Science Society (SCCC 1994). Concepcion, Chile, 1994.
22. I Jornadas Chilenas de Computacion, Chilean Computer Science Society (SCCC 1993). La Serena, Chile, 1993.

11 Conference Program Committees

1. ‘Uncertain Reasoning’ track at Flairs, Florida, USA, 2018.
2. EDBT 2018 (demo track). Vienna, Austria, March, 2018.
3. FoIKS 2018 (Tenth International Symposium on Foundations of Information and Knowledge Systems).
4. Theory and Practice of Provenance Workshop (TaPP17), Seattle, USA, June 2017.
5. International Semantic Web Conference (ISWC’17). October 21-25, Vienna, Austria, 2017.
6. International Conference on Data Science, Technology and Applications (DATA’17). 24-26 July, 2017. Madrid, Spain.
7. KI 2017 (The 40th German Conference on Artificial Intelligence), September 25-28th, 2017, Dortmund, Germany.
8. International Joint Conference on Rules and Reasoning (RuleML+RR 2017), London, UK, July 12-15th, 2017.
9. SUM 2017 (11th International Conference on Scalable Uncertainty Management), Granada, Spain, October 4-6, 2017.
10. International Conference on Management of Data (COMAD), 2017.

11. ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS'17). 2017.
12. 10th International Conference on Web Reasoning and Rule Systems (RR'16). Aberdeen, Scotland, September 9-11, 2016.
13. 9th International Symposium on Foundations of Information and Knowledge Systems (FoIKS'16). Linz, Austria, March 07-11, 2016.
14. Brazilian Symposium on Databases (SBBD'16). Salvador, Bahia, Brazil, October 04-07, 2016.
15. International Joint Conference on Artificial Intelligence (IJCAI'16). New York City, July 2016.
16. Theory and Practice of Provenance Workshop (TaPP'16), Washington DC, June, 2016.
17. PC-cochair, International Web Rule Symposium (RuleML), 2016.
18. Senior PC Member, International Workshop on the Web and Databases (WebDB'16). Co-located with ACM SIGMOD 2016.
19. EDBT 2015, Bordeaux, France, in March 15-18, 2016. Demo Track Program Committee member.
20. International Joint Conference on Artificial Intelligence (IJCAI), Buenos Aires, Argentina, 2015.
21. International Conference on Scalable Uncertainty Management (SUM), Quebec City, Sept. 2015.
22. International Conference on Web Reasoning and Rule Systems (RR), Berlin, August 2015.
23. Brazilian Symposium on Databases (SBBD), Itaipava - Petropolis, Brazil, October, 2015.
24. Editorial board of special issue of the Journal on Data Semantics on Rule Reasoning, 2015.
25. Program Committee SIGMOD/PODS Ph.D. Symposium, Melbourne, Australia, 2015.
26. Program Committee AAI, Austin, USA, 2015.
27. International Conference of the Chilean Computer Science Society (SCCC 14). Nov. 10-14, Talca, Chile.
28. 8th International Conference on Scalable Uncertainty Management (SUM 2014), Oxford, UK, September 15-17, 2014.
29. Ershov Informatics Conference (the PSI Conference Series, 9th edition). June 24-27, 2014, Peterhof, St. Petersburg, Russia.

30. International Conference on Web Reasoning and Rule Systems (RR'14), PhD Consortium. Athens, Greece, 15-17 September 2014.
31. International Conference on Web Reasoning and Rule Systems (RR'14). Athens, Greece, 15-17 September 2014.
32. Eighth International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2014). Bordeaux, France, March 03-07, 2014.
33. VI Congreso Internacional de Computacion y Telecomunicaciones (COMTEL 2014). October 22-24, Lima, Peru.
34. The 5th International Workshop on Acquisition, Representation and Reasoning with Contextualized Knowledge (ARCOE-LogIC 2013). September 15-19, 2013, Corunna, Spain.
35. VLDB 2014. PC Member.
36. ACM Symposium on Principles of Database Systems (PODS), 2013, New York, USA.
37. NoCoDA (Non-Conventional Data Access) 2013. Co-located with the 22nd ACM International Conference on Information and Knowledge Management (CIKM 2013), November 1st, 2013, San Francisco, CA, USA.
38. VLDB 2013, "Demonstrations" track. August 2013, Riva del Garda, Italy.
39. SUM 2013 (7th International Conference on Scalable Uncertainty Management), 2013, Washington D.C.
40. 7th International Conference on Web Reasoning and Rule Systems (RR'13). Mannheim, Germany, July 27-29 2013.
41. LPNMR 2013, International Conferences on Logic Programming and Nonmonotonic Reasoning. Corunna, Spain, September 15-19, 2013.
42. Alberto Mendelzon International WS on Foundations of Data Management (AMW 2012), PhD Track. Ouro Preto, Brazil, June 27-30, 2012
43. 4th International Workshop on Acquisition, Representation and Reasoning with Contextualized Knowledge (ARCOE), August 27-28, 2012, Montpellier, France.
44. WS on Non-Conventional Data Access (NoCoDA), co-located with ER12, October 12-15, 2012, Florence, Italy.
45. International Conference on Scalable Uncertainty Management (SUM), Marburg, Germany, Sep 17-19, 2012.
46. 2012. Latin American Workshop on Logic / Languages, Algorithms and New Methods of Reasoning (LANMR), September 10-11, 2012, Mexico, D.F.
47. IV Congreso Internacional de Computacion y Telecomunicaciones (COMTEL), October 24-27, 2012, Lima, Peru.

48. Mexican International Conference on Artificial Intelligence (MICAI 2012), San Luis Potosi, Mexico, Oct. 27 - Nov. 4, 2012.
49. Extended Semantic Web Conference (ESWC 2012), Semantic Data Management track. Heraklion, Greece, May 27-31, 2012.
50. International Symposium on Foundations of Information and Knowledge Systems (FoIKS), March 5-9, 2012, Kiel, Germany.
51. Seventh Latin American Workshop on Logic/Languages, Algorithms and New Methods of Reasoning, Toluca, Mexico, 7-8 November, 2011, LANMR 2011.
52. Senior PC, IJCAI 2011. 22nd International Joint Conference on Artificial Intelligence, Barcelona, Spain, July 19-22, 2011.
53. ACM Conference on Information and Knowledge Management, CIKM 2011 (DB Track), Glasgow, October 24th-28th, 2011.
54. 30th International Conference of the Chilean Computer Science Society (SCCC 2011). Curico, Chile, November 9-11, 2011.
55. Second International Workshop on Logic-Based Interpretation of Context: Modeling and Applications (Log-IC 2011). In conjunction with LPNMR 2011, Vancouver, Canada, May 16-19, 2011.
56. Annual International Conference of Computer Science and Software Engineering (CASCON 2011), IBM Centers for Advanced Studies, Markham, Ontario, Canada, November 2011.
57. Fifth International Conference on Scalable Uncertainty Management (SUM 2011), Dayton, Ohio, USA, October 10th-12th, 2011.
58. Workshop on “Data, Logic and Inconsistency” (DALI). Collocated with DEXA 2011, Toulouse, 30 August-2 September 2011.
59. International Database Engineering & Applications Symposium (IDEAS 2011). Portugal, 2011.
60. The Ershov Informatics Conference (PSI Conference). June, 27 - July, 1, 2011, Novosibirsk, Akademgorodok, Russia.
61. International Conference on Flexible Query Answering Systems (FQAS 2011). Ghent, Belgium, October 26-28, 2011.
62. International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2011), May 9 to 12, 2011, Vancouver, Canada.
63. International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2010). Crete, Greece, Oct. 26-28, 2010.
64. The Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2010). Buenos Aires, Argentina, May 2010.

65. The International ACM Conference on Management of Emergent Digital EcoSystems (ACM MEDES'10), Bangkok, Thailand, October 26th-29th, 2010.
66. 14th International Conference on Knowledge-based and Intelligent Information & Engineering Systems (KES 2010), September 8-10, 2010, Cardiff, Wales, UK.
67. Fourth International Conference on Scalable Uncertainty Management (SUM 2010). Toulouse, September 28-30, 2010.
68. Third International Conference on Data Management in Grid and P2P Systems (Globe 2010), September 1-2, 2010, Bilbao, Spain.
69. 4th International Conference on Web Reasoning and Rule Systems (RR 2010). Bresanone (Italy), 22-24 September 2010.
70. VLDB 2010. Singapore, September 13-17, 2010.
71. International Conference on Database and Expert Systems Applications (DEXA 2010), Bilbao, Spain, August-September 2010.
72. Sixth International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2010), Sofia, Bulgaria, February 2010.
73. First International Workshop on Logic-Based Interpretation of Context: Modelling and Applications. In conjunction with (LPNMR 2009), Potsdam, September 2009.
74. International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2009), Vilamoura, Algarve-Portugal, November 2009.
75. Annual International Conference of Computer Science and Software Engineering (CASCON 2009), IBM Centers for Advanced Studies, Markham, Ontario, Canada, November 2009.
76. **PC Co-chair.** International Workshop on Logic in Databases (LID 2009), Roskilde, Denmark, October 2009.
77. International Conference on Web Reasoning and Rule Systems (RR 2009). Virginia, USA, October 2009.
78. International Conference on Scalable Uncertainty Management (SUM 2009). Washington DC, USA, September 2009.
79. Advanced Knowledge-based Systems. Invited Session of the 13th International Conference on Knowledge-based and Intelligent Information & Engineering Systems (KES 2009). Santiago, Chile, September 2009.
80. International Conference on Web Information Systems Engineering (WISE 2009), Poznan, Poland, October 2009.
81. International Conference on Data Management in Grid and P2P Systems (Globe 2009), Linz, Austria, 2009.

82. International Conference on Logic Programming and Nonmonotonic Reasoning (LP-NMR 2009), Potsdam, Germany, September 2009.
83. International Conference on Database and Expert Systems Applications (DEXA 2009), Linz, Austria, August-September, 2009.
84. Sixth European Semantic Web Conference (ESWC 2009), Heraklion, Greece, May-June 2009.
85. International Conference on Database Theory (ICDT 2009), St. Petersburg, January 2009.
86. **PC Co-chair.** Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2009). Arequipa, Peru, May 2009.
87. Non-Monotonic Reasoning Conference (NMR 2008). Sydney, Australia, September 2008.
88. International Semantic Web Conference (ISWC 2008), Karlsruhe, Germany, October 2008.
89. International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2008), Monterrey, Mexico, November 2008.
90. Advanced Knowledge-based Systems, invited Session of the 12nd International Conference on Knowledge-based and Intelligent Information & Engineering Systems (KES 2008), Zagreb, Croatia, September, 2008.
91. Annual International Conference of Computer Science and Software Engineering (CASCON 08), Markham, Canada, October, 2008.
92. Second International Conference on Web Reasoning and Rule Systems (RR2008), Colocated with ISWC 2008, Karlsruhe, October/November, 2008.
93. 7th International Conference on Web Information Systems Engineering (WISE 2008), Karlsruhe, October/November 2008.
94. International RuleML Symposium on Rule Interchange and Applications (RuleML-2008), Orlando, October 2008.
95. International Conference on Scalable Uncertainty Management (SUM 2008), Naples, October 2008.
96. Symposium Logic In Databases (LID 2008), Rome, May 2008.
97. Eleventh International Conference on Principles of Knowledge Representation and Reasoning (KR 2008), Sydney, September 2008.
98. Fifth European Semantic Web Conference (ESWC 2008), Tenerife, Spain, June 2008.
99. Fifth International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2008), Pisa, Italy, February 2008.

100. Latin American Theoretical Informatics Conference (LATIN 2008). Rio de Janeiro, April 2008.
101. International Workshop on “Living with Uncertainties”, co-located with the 22nd International on Automated Software Engineering (ASE 2007), Atlanta, USA, Nov. 2007.
102. International RuleML Symposium on Rule Interchange and Applications (RuleML-2007). Orlando, USA, October 2007.
103. 4th Semantic Web and Databases Workshop (SWDB 2007). Collocated with VLDB 07, Vienna, Austria, 2007.
104. 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference, 2007 (ISWC+ASWC’07), Busan, Korea, 2007.
105. International Conference on Conceptual Modeling (ER 2007). Auckland, New Zealand, 2007.
106. Scalable Uncertainty Management Conference (SUM 2007), Washington DC., USA, 2007.
107. European Semantic Web Conference (ESWC 2007), Innsbruck, Austria, June 2007.
108. Noveno Simposio Argentino de Inteligencia Artificial (ASAI 2007). Mar del Plata, Argentina, 2007.
109. Third International Advanced Database Conference (IADC 2007). Track “Advances in Querying Non-Conventional Data Sources”, San Diego, USA, 2007.
110. 5th International Conference on “Research, Innovation & Vision for the Future (RIVF)”. Information and Communications Technology. Track on Integrated Information Systems: Semantic Concepts & Interoperability. Hanoi, Vietnam, 2007.
111. Second International Conference on Rules and Rule Markup Languages for the Semantic Web (RuleML 2006). Atlanta, USA, 2006.
112. 16th Annual International Conference of Computer Science and Software Engineering (CASCON 2006). Toronto, Canada, 2006.
113. International Workshop on Nonmonotonic Reasoning (NMR 2006). Lake District, England, 2006.
114. FLOC/ICLP Workshop on Applications of Logic Programming in the Semantic Web and Semantic Web Services. Seattle, USA, 2006.
115. **PC Co-Chair.** IFIP International Conference on Theoretical Computer Science at the IFIP World Computer Congress (WCC 2006), Santiago de Chile, Chile, 2006.
116. Fourth International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2006). Budapest, 2006.

117. 4th International Conference in Computer Sciences “Research, Innovation & Vision for the Future”. Ho Chi Minh City, Vietnam, 2006.
118. ACM Symposium on Principles of Database Principles (PODS’06). Chicago, 2006.
119. EDBT Workshop on Inconsistency and Incompleteness in Databases (IIDB 2006). Muenchen, 2006.
120. 10th East-European Conference on Advances in Databases and Information Systems (ADBIS 2006). Thessaloniki, 2006.
121. 8th International Conference on Logic Programming and Nonmonotonic Reasoning (LP-NMR 2005). Cosenza, Italy, 2005.
122. International Conference on Ontologies, Databases and Applications of SEmanantics (ODBASE 2005). Cyprus, 2005.
123. International Conference of the Chilean Computer Science Society (SCCC’05). Santiago de Chile, 2005
124. INFOMIX Workshop on Data Integration. Co-located with LPNMR’05. Diamante, Italy, 2005.
125. International Conference on Database Theory (ICDT 2005). Edinburgh, 2005.
126. Third International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2004). Vienna, 2004.
127. International Conference on Very Large Databases (VLDB 2004). Toronto, 2004.
128. IASTED International Conference on Databases and Applications (DBA 2004). Innsbruck, 2004.
129. Workshop on Theory and Applications of LP&NMR. Mexican International Conference on Artificial Intelligence. Mexico City, 2004.
130. Eighth East-European Conference on Advances in Databases and Information Systems (ADBIS 2004). Budapest, 2004.
131. CASCON 2004, Toronto, 2004.
132. Workshop on Deduction and Reasoning Techniques. IBERAMIA, Puebla, Mexico, 2004.
133. Fifteenth International Conference on Software Engineering and Knowledge Engineering (SEKE 2003). San Francisco, 2003.
134. East-European Conference on Advances in Databases and Information Systems (ADBIS 03). Dresden, 2003.
135. Brazilian Symposium on Databases (SBBD 2003). Manaus, 2003.
136. Jornadas Iberoamericanas de Ingenieria de Software e Ingenieria de Conocimiento (IISIC 2003). Valdivia, Chile, 2003.

137. Sixth East-European Conference on Advances in Databases and Information Systems (ADBIS 2002). Slovakia, 2002.
138. Workshop on Paraconsistent Computational Logic at FLoC 02/ICLP 02. Copenhagen, 2002.
139. Non-Monotonic Reasoning Conference (NMR 2002). Toulouse, 2002.
140. 4th International Conference on Software Engineering and Knowledge Engineering (SEKE 2002). Ischia, Italy, 2002.
141. Sixth East-European Conference on Advances in Databases and Information Systems (ADBIS 2002). Bratislava, Slovakia, 2002.
142. Fifth International Conference on Flexible Query Answering Systems (FQAS 2002). Copenhagen, Denmark, 2002.
143. XXII International Conference of the Chilean Computer Science Society (SCCC 2002). Copiapo, Chile, 2002
144. I Workshop Chileno de Bases de Datos. Jornadas Chilenas de Computacion. Copiapo, Chile, 2002.
145. Second International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2002). Schlo Salzau, Germany, 2002.
146. Latin American Theoretical Informatics (LATIN 2002). Cancun, Mexico, 2002.
147. XX International Conference Chilean Computer Science Society (SCCC 2000). Santiago de Chile, 2000.
148. Thirteenth International Conference on Software Engineering & Knowledge Engineering (SEKE 2001), Buenos Aires, Argentina, 2001.
149. East-European Conferences on Advances in Databases and Information Systems (ADBIS 2001). Vilnius Lithuania, 2001.
150. Program Committee. XVI Brazilian Symposium on Databases (SBBD 2001). Rio de Janeiro, 2001.
151. **PC Co-Chair.** Workshop on Inconsistency in Data and Knowledge. International Joint Conference on Artificial Intelligence (IJCAI 2001), Seattle, 2001.
152. XV Brazilian Symposium on Databases (SBBD 2000). Joao Pessoa, 2000.
153. International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2000), Burg, Germany, 2000.
154. Symposium on Advances in Databases and Information Systems (ADBIS 2000). Prague, Czech Republic, 2000.
155. Brazilian Artificial Intelligence Symposium (SBIA 2000). Sao Paulo, Brazil, 2000.

156. Seventh Ibero-American Conference on Artificial Intelligence (IBERAMIA 2000). Sao Paulo, Brazil, 2000.
157. 14th IEEE Automated Software Engineering Conference (ASE 1999). Cocoa Beach, Florida, USA, 1999.
158. Sixth Ibero-American Conference on Artificial Intelligence (IBERAMIA 1998). Lisbon, Portugal, 1998.
159. Joint Conference on Declarative Programming (APIA-GULP-PRODE 1998). A Coruna, Spain, 1998.
160. 13th IEEE Automated Software Engineering Conference (ASE 1998). Honolulu, Hawaii, 1998.
161. Joint Conference on Declarative Programming (APIA-GULP-PRODE 1997). Grado, Italy, 1997.
162. 12th IEEE Automated Software Engineering Conference (ASE 1997). Lake Tahoe, USA, 1997.
163. Pacific Rim Conference on Artificial Intelligence (PRICAI 1996). Cairns, Australia, 1996.
164. XXII Latin American Conference on Informatics (CLEI 1996). Bogota, 1996.
165. Joint Conference on Declarative Programming (APIA-GULP-PROCADE 1996). San Sebastian, Spain, 1996.
166. Second International Symposium Latin American Theoretical Informatics (LATIN 1995). Valparaiso, 1995.
167. XX Latin American Conference on Informatics (CLEI 1994), Ciudad de Mexico 1994.
168. XIII International Conference Chilean Computer Science Society (SCCC 1993). La Serena, Chile, 1993.

12 Funding³ (some)

1. 2016-2018: LogicBlox, PhD student grant. \$20,000 per year.
2. 2016-2021: NSERC DG. \$31,000 per year.
3. NSERC Engage. With Gnowit. \$25,000, 2015.
4. NSERC Engage. With Red Tiger Labs. \$25,000, 2015.
5. 2011-2015: NSERC DG. \$29,000 per year.

³Amounts are per year; and conversion rates, when applicable, are as of year of the grant.

6. 2009-2013: NSERC Strategic Network on Business Intelligence” (BIN). Funding from NSERC and industry, \$1,400,000 per year. Individual grant: \$60,000 per year.
7. BIN Network, Carleton University: \$5,000 per year, 2009-20013.
8. NSERC/IBM CRD Grant (with Jarek Gryz, York U.), approx. \$30,000 per year, 2009-2012.
9. 2006-10: NSERC. Discovery Grant. Ca\$35,400 per year.
10. 2006 : IBM. IBM CAS Faculty Fellowship. Ca\$ 21,015.
11. 2002-05: NSERC. Discovery Grant. Ca\$25,000 per year,
12. 2005 : IBM. IBM CAS Faculty Fellowship. US\$10,000
13. 2004 : IBM. IBM CAS Faculty Fellowship. Ca\$26,000
14. 2003 : IBM. IBM CAS Faculty Fellowship. Ca\$10,700
15. 2001 : Carleton University. Startup Grant. Ca\$20,000
16. 2000-01: FONDECYT.⁴ Research Grant. US\$25,146
17. 2000-01: CONICYT. International Cooperation Grant. US\$3,500
18. 1999-00: CONICYT/NSF. International Research Exchange with USA. Ca\$11,000
19. 1999-00: CONICYT/BMBF. International Research Exchange with Germany. Ca\$10,000
20. 1998-00: CONICYT/ECOS. International Research Exchange with France. Ca\$10,000
21. 1998-99: FONDECYT. Research Grant. US\$29,000
22. 1998-99: CONICYT. International Cooperation Grant. US\$3,500
23. 1993-95: FONDECYT. Research Grant. US\$29,170
24. 1993 : CONICYT/SAREC. International Research Exchange with Sweden. US\$5,000

13 Teaching

Courses at Carleton University (since 2001):

1. Undergraduate: Transaction Processing Systems. Discrete Structures. Knowledge Representation. Database Management Systems. Computer Science Logic. Theory of Computation (Automata, Formal Languages and Computability). Semantic Web: Concepts and Techniques. Data Management for Business Intelligence. Computational Logic and Automated Reasoning.
2. Graduate: Semantics of Deductive Databases, Data Integration, Knowledge Representation, Computational Logic.

⁴FONDECYT is the standard research funding program of CONICYT, the Chilean Agency for Research Funding.

Courses at PUC, Computer Science (1992-2001):

1. Undergraduate: Logic for Computer Science, Discrete Mathematics for Computer Science, Modern Database Systems.
2. Graduate: Design and Analysis of Algorithms, Computational Complexity, Logic and Knowledge Representation, Semantics of Logic Programming, Deductive Databases, Advanced Topics in Databases, Emerging Methodologies in Databases.

Courses taught at the University of Wisconsin-Milwaukee (1990):

1. Undergraduate: Discrete Information Structures.
2. Graduate: Artificial Intelligence.

Courses at the University of Toronto (1989/90):

1. Undergraduate: Introduction to Computer Science, Discrete Mathematics for Computer Science (twice), Effective and Efficient Computing.

Courses at the PUC, Mathematics (until 1992): Probability and Statistical Methods, Numerical Methods, Mathematical Logic, Foundations of Mathematics, Computability, etc.

Some other courses taught:

1. Logic for Computer Science (graduate). Universidad Mayor San Simon, Cochabamba, Bolivia. 1996.
2. Logic for Computer Science (CC51I). Computer Science Department, University of Chile. First semester 1994.
3. Artificial Intelligence. University of Tarapaca, Arica, Chile. 1992.