

Curriculum Vitæ – Maria Vanina Martinez

PERSONAL INFORMATION

First and Family name	Maria Vanina Martinez Posse	
Researcher codes	SCOPUS Author ID(*)	57195288338
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Key words	Multi-agent Systems, Artificial Intelligence, Knowledge Representation and Reasoning, Knowledge and Belief Dynamics, Automated Decision-making, Ethical and Responsible AI	

A. CURRENT AND PREVIOUS RESEARCH POSITIONS

- Researcher at Artificial Intelligence Research Institute – IIIA-CSIC, Barcelona, since January 2023. Department of Computer Science, Faculty of Exact and Natural Sciences, University of Buenos Aires (UBA), since August 2018.
- Researcher at Consejo Nacional de Investigaciones Cientificas y Tecnicas, Member of Institute for Computer Science (UBA – CONICET), since August 2014.
- Director of the Data Science and Artificial Intelligence Program at Fundación Dr. Manuel Sadosky. The Dr. Manuel Sadosky Foundation, from August 2021 – December 2022.

B. QUALIFICATIONS

- PhD in Computer Science, year 2011, Department of Computer Science, University of Maryland College Park, USA. Advisor: V.S. Subrahmanian (Dep. of Computer Science, University of Maryland College Park).
- Master of Science in Computer Science, year 2008, Department of Computer Science, University of Maryland College Park, USA.
- Licenciatura in Computer Science, year 2005, Department of Computer Science and Engineering, Universidad Nacional del Sur, Bahía Blanca, Argentina.

C. AWARDS AND DISTINCTIONS

- 2013-2023 Konex Award: Notable personalities of science and technology (Area: Artificial Intelligence and Computer Science).
- 2021 Stimulus Award in the area of Engineering Sciences and Technology, awarded by the (Argentinian) National Academy of Exact, Physical and Natural Sciences: <https://www.ancefn.org.ar/categoria.asp?id=916>
- “AI’s Ten to Watch 2018”, awarded by IEEE Intelligent Systems to young scientists in Artificial Intelligence. Link: <https://www.computer.org/csdl/mags/ex/2018/01/mex2018010004.html>
- Selected by the executive and advisory boards of IJCAI 2017 for the Early Career Spotlight track. Link: <https://ijcai-17.org/early-career.html>
- Declared Outstanding Person of Science by the Honorable Chamber of Representatives of the Province of Buenos Aires, on November 22, 2018.
- Best paper award at the 9th Int. Web Rule Symposium 2015: “Existential Rules and Bayesian Networks for Probabilistic Ontological Data Exchange”, T. Lukasiewicz, M. V. Martinez, L. Predoiu, G. I. Simari.”

D. RESEARCH PROJECTS AND GRANTS

Participation as Principal Investigator/Coordinator:

1. Project Title: “[DODAM: Declarative and Ontology-Enhanced Data Analytics and Machine Learning](#).” STIC AMSUD - Francia. PI: Leopoldo Bertossi. (UAI, UBA, UdelaR, Université de Paris, and Université de Rennes 1). Period: 01/03/2022-28/02/2023. Amount: 30.750 €. Role: **Scientific Coordinator for Argentina**.
2. Project Title: “Inconsistent data in graph databases”. Funding Institution: National Agency of Scientific and Technological Promotion (PICT-2020). Period: 2022-2025. Amount: \$ 1,909,845.00 (ARS). Principal Investigator: Sergio Abriola. Role: **Co-principal Investigator**.
3. Project Title: “Inconsistency-tolerant query answering on data graphs.” National Council of Technical and Scientific Research (PIP). Period: 01/10/2021-30/09/2023. Amount: \$ 850,000.00 (ARS). Role: **Principal Investigator**.

4. Project Title: “Inconsistency-tolerant Query Answering for semi-structured databases”. Funding Institution: Secretaría de Investigación Científica y Tecnológica FCEN–UBA (RESCS-2020-345-E-UBA-REC). Period: 2020 – 06/2022. Amount: \$ 55,875.47 (ARS). Role: **Principal Investigator**.
5. Project Title: “Query Answering in Social Knowledge Bases under Uncertainty using Users’ Preferences”. Funding Institution: National Agency of Scientific and Technological Promotion (PHR-PIDRI-2014-0007). Period: 07/2015 – 06/2021. Amount: \$ 400,000.00 (ARS). Role: **Co-principal Investigator**.

Participation as External Advisor:

1. Project Title: “ProDy Knowledge-driven Profile Dynamics”. Funding Institution: Fundação para a Ciência ea Tecnologia (FCT), Ministry of Science, Technology and Higher Education in Portugal. PTDC/CCI-COM/4464/2020. Period: 2021 – 2024. Principal Investigator: Eduardo Fermé. Role: External advisor.

Participation as Researcher:

1. Project Title: “MIREL: MIning and REasoning with Legal texts”. Funding Institution: EU H2020 Marie Skłodowska-Curie grant agreement No. 690974. Period: 2016 – 2019. Amount: € 1,264,500.00 (EUR).
2. Project Title: “PrOQAW: Probabilistic Ontological Query Answering on the Web”. Amount: £813,812.00. Funding Institution: Engineering and Physical Sciences Research Council (EPSRC) UK. Period: 04/2012 – 04/2016. Principal Investigator: Thomas Lukasiewicz (University of Oxford).
3. Project Title: “Maintenance and Personalized Use of Knowledge Bases”. Funding Institution: Universidad Nacional del Sur (UNS), Argentina (PGI 24/ZN34). Period: 2018-2022. Principal Investigator: Gerardo I. Simari (UNS, Argentina).
4. Project Title: “Data-aware languages on graph databases”. Funding Institution: National Agency of Scientific and Technological Promotion (PICT-2016-0215 Tipo III-A - Raices). Period: 2018 – 2020. Principal Investigator: Santiago Figueira (UBA, Argentina).
5. Project Title: “Integration of Belief Bases maintaining Coherence and Consistency”. Funding Institution: UNER (PID-UNER 7053). Period: 2018–2021. Principal Investigator: Marcelo A. Falappa (UNS, Argentina).
6. Project Title: “Formalisms and Techniques for the personalized management of knowledge bases tolerant to inconsistency”. Funding Institution: Universidad Nacional del Sur (PGI 24/ZN31). Period: 01/2016 – 12/2017. Principal Investigator: Gerardo I. Simari (UNS, Argentina).

Participation as Junior Researcher:

7. Project Title: “Argumentation and Belief Revision to improve reasoning and representation in Multi-Agent Systems”. Funding Institution: PGI - Universidad Nacional del Sur. Period: 01/2013 – 12/2016. Amount: ARS\$ 10,000.00. Principal Investigator: Alejandro J. García and Marcelo Falappa (UNS, Argentina).
8. Project Title: “Combining Belief Revision and Argumentation to improve the reasoning and modeling of knowledge dynamics in Multit-Agent Systems”. Funding Institution: PIP-CONICET. Amount: ARS\$ 300,000.00. Period: 10/2014 – 12/2014. Principal Investigator: Marcelo Falappa (UNS, Argentina).
9. Project Title: “Probabilistic Semantic Query Answering on the Web”. Funding Institution: Google Research. Period: 10/2011 – 10/2012. Amount: US\$ 80,000.00. Principal Investigator: Thomas Lukasiewicz (University of Oxford).
10. Project Title: “Scaling Stochastic Opponent Modeling Agents”. Funding Institution: United States Air Force Office of Scientific Research. Period: 05/2009 – 04/2010. Amount: US\$ 436,753.00. Principal Investigator: V.S. Subrahmanian (University of Maryland College Park, USA).
11. Project Title: “SIMS: Scalable Incompleteness and Inconsistency Management Strategies”. Funding Institution: Office of Naval Research (USA). Period: 02/2009 – 12/2009. Amount: US\$ 100,000.00. Principal Investigator: V.S. Subrahmanian (University of Maryland College Park, USA).
12. Project Title: “CARA: Cognitive Architecture for Reasoning about Adversaries”. Funding Institution: United States Air Force Office of Scientific Research. Period: 05/2006 – 04/2011. Amount: US\$ 5,805,232.00. Principal Investigator: Dana Nau (University of Maryland College Park, USA).

E. PUBLICATIONS (Books, book chapters, and journals)

Martinez has over 95 publications in international journals (32) and top-tier international conferences and scientific meeting (49). She published 11 book chapters and 3 books. Her work has to date over 1200 citations (h-index: 21, i10-index: 33).

International Journals (peer reviewed):

32. Abriola Sergio, Cifuentes Santiago, Martinez Maria Vanina, Pardal Nina, Pin Edwin. "An epistemic approach to model uncertainty in data-graphs". *International Journal of Approximate Reasoning*, 2023, 108948, ISSN 0888-613X. Quartile (SJR): Q1. Scopus Percentile: 78th. IF: 3.816.
31. Carlos Teze, Jose N. Paredes, Maria Vanina Martinez, Gerardo Simari. "Engineering User-centered Explanations to Query Answers in Ontology-driven Socio-technical Systems." *Semantic Web Journal*. Accepted for publication January 2023. Quartile (SJR): Q1. WoS: 2.214. IF: 3.592
30. Sergio Abriola, Maria Vanina Martinez, Nina Pardal, Santiago Cifuentes, Edwin Pin Baque. "On the complexity of finding set repairs for data-graphs". *Journal of Artificial Intelligence Research*. Accepted for publication January 2023. Quartile (SJR): Q1. Scopus Percentile: 76th. WoS: 2.776. IF: 3.592
29. Paola D. Budán, Melisa G. Escañuela Gonzalez, Maximiliano C. Budán, Maria Vanina Martinez Guillermo RR. Simari. "Strength in coalitions: Community detection through argument similarity" *Argument & Computation*. *Argument & Computation*, vol. Pre-press, no. Pre-press, pp. 1-51, 2023. Quartile (SJR): Q2. Scopus Percentile: 54th. IF: 2.28
28. Gaston E Zanitti, Yamil Soto, Valentin Iovene, Maria Vanina Martinez, Ricardo O Rodriguez, Gerardo I Simari, Demian Wassermann: "Scalable Query Answering under Uncertainty to Neuroscientific Ontological Knowledge: The NeuroLang Approach". *Accepted Neuroinformatics* 2022. IF: 4.085
27. Jose N. Paredes, Juan Carlos L. Teze, Maria Vanina Martinez, Gerardo I. Simari: "The HEIC Application Framework for Implementing XAI-based Socio-technical Systems", *Online Social Networks and Media*. Volume 32, 2022, 100239, ISSN 2468-6964. Quartile (SJR): Q1. Scopus Percentile: 80th. IF: 4.419
26. Thomas Lukasiewicz, Enrico Malizia, Maria Vanina Martinez, Cristian Molinaro, Andreas Pieris, Gerardo I. Simari: "Inconsistency-tolerant Query Answering for Existential Rules", *Artificial Intelligence* 307: 103685 (2022). Quartile (SJR): Q1. Scopus Percentile: 99th. (WoS 2020): 9.088. IF:14.05
25. Fabio R. Gallo, Gerardo I. Simari, Maria Vanina Martinez, Natalia Abad Santos, and Marcelo A. Falappa: "Local Belief Dynamics in Network Knowledge Bases". *ACM Trans. Comput. Logic* 23, 1, Article 4, 2022. Quartile (SJR): Q1. Scopus Percentile: 77th. IF: 1.345
24. John Grant, Cristian Molinaro, Maria Vanina Martinez, Francesco Parisi: "Dimensional Inconsistency Measures and Postulates in Spatio-Temporal Databases", *Journal of Artificial Intelligence Research*, Vol. 71: 733-780 (2021). Quartile (SJR): Q1. Scopus Percentile: 76th. WoS: 2.775. IF: 3.592
23. Gerardo I. Simari, Maria Vanina Martinez, Fabio R. Gallo, Marcelo A. Falappa: "The Big-2/ROSe Model of Online Personality", *Cognitive Computation*, 13(5) pp. 1198 - 1214, 2021. Quartile (SJR): Q1. Scopus Percentile: 90th. IF: 5.24
22. Jose N. Paredes, Gerardo I. Simari, Maria Vanina Martinez, Marcelo A. Falappa: "Detecting malicious behavior in social platforms via hybrid knowledge- and data-driven systems", *Future Generation Computer Systems*, 2021, ISSN 0167-739X. Quartile (SJR): Q1. Scopus Percentile: 96th. IF:7.187
21. Cristhian A.D. Deagustini, Juan Carlos L. Teze, M. Vanina Martinez, Marcelo A. Falappa, Guillermo R. Simari: "Merging existential rules programs in multi-agent contexts through credibility accrual", *Information Sciences*, Volume 555, 2021, Pages 236-259. ISSN 0020-0255. Quartile (SJR): Q1. Scopus Percentile: 95th. (WoS 2020): 6.795. IF: 8.506
20. Jose N. Paredes, Gerardo I. Simari, Maria Vanina Martinez, Marcelo A. Falappa: "NetDER: An Architecture for Reasoning about Malicious Behavior", *Information Systems Frontiers* 23(1): 185-201 (2021). Quartile (SJR): Q1. Scopus Percentile: 89th. WoS: 6.191. IF: 6.814
19. Paola D. Budán, Melisa G. Escañuela Gonzalez, Maximiliano C. D. Budán, Maria Vanina Martinez, Guillermo R. Simari: "Similarity notions in bipolar abstract argumentation", *Argument & Computation*, vol. 11, 1—2, pp. 103–149, 2020, 10.3233/AAC-190479. Quartile (SJR): Q2. Scopus Percentile: 54th. IF: 2.28
18. Fabio R. Gallo, Gerardo I. Simari, Maria Vanina Martinez, Marcelo A. Falappa: "Predicting user reactions to twitter feed content based on personality type and social cue", *Future Generation Computer Systems*, 2019, ISSN 0167-739X. Quartile (SJR): Q1. Scopus Percentile: 94th. WoS: 7.187. IF: 8.872
17. Cristhian A.D. Deagustini, M. Vanina Martinez, Marcelo A. Falappa, Guillermo R. Simari: "Belief base contraction by belief accrual", *Artificial Intelligence*, Vol. 275, pp. 78-103, 2019, ISSN0004-3702, <https://doi.org/10.1016/j.artint.2019.05.002>. Impact Factor (SJR 2018): 1.01 – Quartile (SJR): Q1. Scopus Percentile: 86th. WoS: 9.088. IF:14.05
16. J. Paredes, Gerardo I. Simari, Maria Vanina Martinez, Marcelo A. Falappa: "First Steps towards Data-driven Adversarial Deduplication", *Information* 9(8), 2018. Quartile (SJR): Q3. Scopus Percentile: 40th. IF: 3.38

15. Bettina Fazzinga, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Ontological query answering under many-valued group preferences in Datalog+/-", *International Journal of Approximate Reasoning*, vol. 93, pp. 354–371, 2018. Quartile (SJR): Q1. Scopus Percentile: 78th. IF: 3.816
14. Zhenghua Xu, Oana Tifrea-Marcuska, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Cheng Chen: "Lightweight Tag-Aware Personalized Recommendation on the Social Web Using Ontological Similarity", in *IEEE Access*, vol. 6, pp. 35590-35610, 2018. Quartile (SJR): Q1. Scopus Percentile: 74th. (WoS 2020): 3.367. IF: 4.34
13. Fabio R. Gallo, Gerardo I. Simari, Maria Vanina Martinez, Marcelo A. Falappa, Natalia Abad Santos: "Reasoning about Sentiment and Knowledge Diffusion in Social Networks", *IEEE Internet Computing* 21(6): 8-17 (2017). Quartile (SJR): Q1. Scopus Percentile: 74th. IF: 2.341
12. Cristhian A. D. Deagustini, Maria Vanina Martinez, Marcelo A. Falappa, Guillermo R. Simari: "How does incoherence affect inconsistency-tolerant semantics for Datalog+/-?". *Annals of Mathematics and Artificial Intelligence*, pp. 1–26, 2016. Quartile (SJR): Q3. Scopus Percentile: 52nd. IF: 1.299
25. Cristhian Ariel David Deagustini, Maria Vanina Martinez, Marcelo A. Falappa, Guillermo R. Simari: "Datalog+/- Ontology Consolidation". *Journal Artificial Intelligence Research (JAIR)* 56: 613–656, 2016. Quartile (SJR): Q1. Scopus Percentile: 82nd. (WoS 2020): 2.776. IF: 2.775
10. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Preference-based Query Answering in Probabilistic Datalog+/- Ontologies". *Journal on Data Semantics*, vol. 4, no. 2, pp. 81–101, June 2015. Quartile (SJR): Q3. Scopus Percentile: 73rd. IF: 1.68
9. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Ontology-Based Query Answering with Group Preferences". *ACM Transactions on Internet Technology (TOIT)* 14(4):25, 2014. Quartile (SJR): Q1. Scopus Percentile: 53rd. IF: 3.135
8. Maria Vanina Martinez: "Personalizable Knowledge Integration". *AI Communications* vol. 3, no. 27, pp. 285–297. Mayo 2014. Quartile (SJR): Q3. Scopus Percentile: 56th. IF: 1.37
7. Maria Vanina Martinez, Francesco Parisi, Andrea Puglise, Gerardo I. Simari, V.S. Subrahmanian: "Policy-based Inconsistency Management in Relational Databases". *International Journal of Approximate Reasoning*, vol. 55, no. 2, pp. 501–528. January 2014. Quartile (SJR): Q1. Scopus Percentile: 93rd. (WoS 2020): 3.816. IF: 4.306
6. Georg Gottlob, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari: "Query Answering Under Uncertainty in Datalog ± Ontologies". *Annals of Mathematics and Artificial Intelligence*, vol. 69, no. 1, pp. 37–72. September 2013. Quartile (SJR): Q3. Scopus Percentile: 37th. IF: 1.299
5. Maria Vanina Martinez, Cristian Molinaro, John Grant, V.S. Subrahmanian: "Customized Policies for Handling Partial Information in Relational Databases". *IEEE Transactions on Knowledge and Data Engineering*, vol. 25, no. 6, pp. 1254 – 1271, 2013. Quartile (SJR): Q1. Scopus Percentile: 94th. IF: 6.977
4. Gerardo I. Simari, Maria Vanina Martinez, Amy L. Sliva, V.S. Subrahmanian: "Focused Most Probable World Computations in Probabilistic Logic Programs". *Annals of Mathematics and Artificial Intelligence*, vol. 64, no. 2-3, pp. 113-143. Marzo 2012. Quartile (SJR): Q3. Scopus Percentile: 26th. IF: 1.299
3. Maria Vanina Martinez, Gerardo I. Simari, Amy L. Sliva, V.S. Subrahmanian: "CONVEX: Similarity-based Algorithms for Forecasting Group Behavior". *IEEE Intelligent Systems*, vol. 23, no. 4, pp. 51-57, Jul/Aug 2008. Quartile (SJR): Q1. Scopus Percentile: 89th. IF: 5.842
2. V.S. Subrahmanian, Massimiliano Albanese, Maria Vanina Martinez, Dana Nau, Diego Reforgiato, Gerardo I. Simari, Amy L. Sliva, Octavian Udrea y Jonathan Wilkenfeld: "CARA: A Cultural-Reasoning Architecture". *IEEE Intelligent Systems*, vol. 22, no. 2, pp. 12-16, April 2007. Quartile (SJR): Q1. Scopus Percentile: 89th. IF: 5.842
1. Samir Khuller, Maria Vanina Martinez, Dana Nau, Gerardo I. Simari, Amy L. Sliva, V.S. Subrahmanian: "Computing Most probable Worlds of Action Probabilistic Logic Programs: Scalable Estimation for 10 30,000 worlds". *Annals of Mathematics and Artificial Intelligence*, vol. 51, no. 2-4, pp. 295-331, December 2007. Quartile (SJR): Q3. Scopus Percentile: 25th. IF: 1.299

Published Books:

3. John Grant and Maria Vanina Martinez (Eds): "Measuring Inconsistency in Information". Role: Editor. College Publications ISBN 978-1-84890-244-2 (2018).
2. Gerardo I. Simari, Cristian Molinaro, Maria Vanina Martinez, Livia Predoiu, Thomas Lukasiewicz: "Ontology-Based Data Access Leveraging Subjective Reports". Springer Briefs in Computer Science, 1st Edition (2017), ISBN 978-3-319-65229-0.

1. Maria Vanina Martinez, Cristian Molinaro, V.S. Subrahmanian, Leila Amgoud: "A General Framework for Reasoning On Inconsistency". Springer Briefs in Computer Science 2013, VII, ISBN 978-1-4614-6749-6.

Book Chapters (peer reviewed):

11. V. S. Subrahmanian, Maria Vanina Martinez, Diego Reforgiato Recupero: "Multimedia Presentation Databases". Encyclopedia of Database Systems (2nd ed.), 2018.
10. Maria Vanina Martinez, Sebastian Gottifredi: Query Answering in the Semantic Social Web: An Argumentation-Based Approach. Encyclopedia of Social Network Analysis and Mining (2nd ed.), 2018.
9. Thomas Lukasiewicz, Maria Vanina Martinez, Cristian Molinaro, Livia Predoiu, Gerardo I. Simari: "Ranking Answers to Datalog+/- Ontologies based on Trust and Reliability of Subjective Reports". Computational Models of Rationality: Essays Dedicated to Gabriele Kern-Isberner on the Occasion of Her 60th Birthday, College Publications, Tributes Series, vol. 29, pp. 175–192, 2016.
8. Tommaso Di Noia, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo Simari, Oana Tifrea-Marcuska: "Ontological CP-Nets". Proceedings of ISWC International Workshops, URSW 2011-2013, Revised Selected Papers. Lecture Notes in Computer Science Volume 8816, pp. 289–308.
7. Thomas Lukasiewicz, Maria Vanina Martinez, Livia Predoiu, Gerardo Simari: "Information Integration with Provenance on the Semantic Web via Probabilistic Datalog+/-". Proceedings of ISWC International Workshops, URSW 2011-2013, Revised Selected Papers. Lecture Notes in Computer Science Volume 8816, pp. 41–62.
6. Maria Vanina Martinez and Sebastián Gottifredi: "Query Answering in the Semantic Social Web: An Argumentation- based Approach.", in Encyclopedia of Social Network Analysis and Mining (ESNAM): pp. 1441–1455. Springer 2014—ISBN 978-1-4614-6169-2.
5. Amy Sliva, Gerardo I. Simari, Maria Vanina Martinez, V.S. Subrahmanian: "SOMA: Stochastic Opponent Modeling Agents for Forecasting Violent Behavior.", in Handbook of Computational Approaches to Counterterrorism. SpringerVerlag, 2012.
4. Maria Vanina Martinez, Amy Sliva, Gerardo I. Simari, V.S. Subrahmanian: "Forecasting Changes in Terror Group Behavior.", in Handbook of Computational Approaches to Counterterrorism. Springer-Verlag, 2012.
3. M. Albanese, M. Broecheler, J. Grant, Maria Vanina Martinez, V.S. Subrahmanian: "PLINI: A Probabilistic Logic Program Framework for Inconsistent News Information", in Logic Programming, Knowledge Representation, and Nonmonotonic Reasoning, Balduccini, Marcello and Son, Tran Cao (Eds.). Lecture Notes in Computer Science vol. 6565, pp. 347–376. Springer, 2011.
2. V.S. Subrahmanian, Maria Vanina Martinez, Diego Reforgiato: "Multimedia Presentation Databases.", In Encyclopedia of Database Systems (eds. T. Ozsú and L. Liu), pp. 1829-1831. Springer-Verlag, 2009.
1. Amy L. Sliva, V.S. Subrahmanian, Maria Vanina Martinez, Gerardo I. Simari: "CAPE: Automatically Predicting Changes in Group Behavior", in Mathematical Methods in Counterterrorism, N. Memon, J. D. Farley, D. L. Hicks, and T. Rosenorn, Eds., pp. 247-263. Springer-Verlag, 2009.

Proceedings of International Conference (peer reviewed):

49. Damián Ariel Furman, Pablo Torres, José Rodríguez, Laura Alonso Alemany, Diego Letzen, Maria Vanina Martinez: "Which Argumentative Aspects of Hate Speech in Social Media can be reliably identified?". Accepted for publication at International Conference on Computational Semantics (IWCS 2023). International Workshop on Designing Meaning Representation.
48. Martin Gjoreski, Kacper Sokol, Maria Vanina Martinez, Piotr Romashov, Marc Langheinrich: "BayCon: Model-agnostic Bayesian Counterfactual Generator". IJCAI 2022: 740-746.
47. Daniel A. Grimaldi, Maria Vanina Martinez, Ricardo O. Rodriguez: "Updating the Belief Promotion Operator". IJCAI 2021: 1901-1907.
46. Maria Vanina Martinez, Gerardo I. Simari: "Explanation-Friendly Query Answering Under Uncertainty". Reasoning Web 2019: 65–103.
45. Jose Paredes, Maria Vanina Martinez, Gerardo I. Simari, Marcelo A. Falappa: "Leveraging Probabilistic Existential Rules for Adversarial Deduplication". PRUV@IJCAR 2018.
44. Maria Vanina Martinez, Lluís Godó, Gerardo I. Simari: "Inferring Quantitative Preferences: Beyond Logical Deduction". SUM 2018, pp. 387–395.
43. Maria Vanina Martinez: "Knowledge Engineering for Intelligent Decision Support". Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI 2017).

42. Fabio R. Gallo, Gerardo I. Simari, Maria Vanina Martinez, Natalia Abad Santos, Marcelo A. Falappa: "A First Approach to Belief Dynamics in Complex Social Networks". Proceedings of the 11th Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2017).
41. Thomas Lukasiewicz, Maria Vanina Martinez, David Poole, Gerardo I. Simari: "Probabilistic Models over Weighted Orderings: Fixed-Parameter Tractable Variable Elimination". Proceedings of the 15th International Conference on Principles of Knowledge Representation and Reasoning (KR 2016), pp. 494–504.
40. Thomas Lukasiewicz, Maria Vanina Martinez, Livia Predoiu, Gerardo I. Simari: "Basic Probabilistic Ontological Data Exchange with Existential Rules". Proceedings of the 30th AAAI Conference on Artificial Intelligence (AAAI 2016).
39. Tommaso Di Noia, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Combining Existential Rules with the Power of CP-Theories". Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI 2015), pp. 2918–2925.
38. Paola D. Budán, Maria Vanina Martinez, Maximiliano C. D. Budan, Guillermo R. Simari "Introducing Analogy in Abstract Argumentation". Proceedings of the Third Workshop on Weighted Logics for AI (WL4AI 2015).
37. Cristhian Deagustini, Maria Vanina Martinez, Marcelo Falappa, Guillermo Simari: "On the Influence of Incoherence in Inconsistency-tolerant Semantics for Datalog+/-". Proceedings of the Workshop on Ontologies and Logic Programming for Query Answering". (ONTOLP 2015).
36. Thomas Lukasiewicz, Maria Vanina Martinez, Andreas Pieris, Gerardo I. Simari: "From Classical to Consistent Query Answering under Existential Rules". Proceedings of the 9th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2015). CEUR Vol 1378.
35. Thomas Lukasiewicz, Maria Vanina Martinez, Livia Predoiu, Gerardo I. Simari: "Existential Rules and Bayesian Networks for Probabilistic Ontological Data Exchange". Proceedings of the 9th International Web Rule Symposium (RuleML 2015), pp. 294–310. **Best paper award.**
34. Thomas Lukasiewicz, Maria Vanina Martinez, Andreas Pieris, Gerardo Simari: "From Classical to Consistent Query Answering under Existential Rules". Proceedings of the 29th AAAI Conference on Artificial Intelligence (AAAI-15), pp. 1546–1552.
33. Thomas Lukasiewicz, Maria Vanina Martinez, Livia Predoiu, Gerardo I. Simari: "Probabilistic Ontological Data Exchange with Bayesian Networks". Proceedings of the 11th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2015), pp. 38–49.
32. Maria Vanina Martinez, Cristhian Ariel David Deagustini, Marcelo A. Falappa, Guillermo R. Simari: "Inconsistency-Tolerant Reasoning in Datalog+/- Ontologies via an Argumentative Semantics". Proceedings of the 14th Ibero-American Conference on Artificial Intelligence (IBERAMIA 2014), Lecture Notes in Computer Science Volume 8864, pp. 15–27. Springer, 2014.
31. Cristhian Deagustini, Maria Vanina Martinez, Marcelo Falappa, Guillermo Simari: "Improving Inconsistency Resolution by Considering Global Conflicts". Proceedings of the 8th International Conference on Scalable Uncertainty Management (SUM 2014), pp. 120–133.
30. Thomas Lukasiewicz, Maria Vanina Martinez, Cristian Molinaro, Livia Predoiu, Gerardo I. Simari: "Answering Ontological Ranking Queries based on Subjective Reports". Proceedings of the 8th International Conference on Scalable Uncertainty Management (SUM 2014), pp. 223–236.
29. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari: "Probabilistic Preference Logic Networks". Proceedings of the 21st European Conference on Artificial Intelligence (ECAI 2014), pp. 561–566.
28. Cristhian Deagustini, Maria Vanina Martinez, Marcelo Falappa, Guillermo Simari: "Improving Inconsistency Resolution by Considering Global Conflicts". Proceedings of the 21st European Conference on Artificial Intelligence (ECAI 2014), 991–992.
27. Thomas Lukasiewicz, Maria Vanina Martinez, Cristian Molinaro, Livia Predoiu, Gerardo I. Simari: "Answering Ontological Ranking Queries based on Subjective Reports". Proceedings of the First Workshop on Logics for Reasoning about Preferences, Uncertainty, and Vagueness (PRUV 2014), pp. 127–140.
26. Tommaso Di Noia, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Computing k-rank Answers with Ontological CP-Nets". Proceedings of the First Workshop on Logics for Reasoning about Preferences, Uncertainty, and Vagueness (PRUV 2014), pp. 74–87.
25. Tommaso Di Noia, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Computing k-rank Answers with Ontological CP-Nets". Proceedings of the 22nd Italian Symposium on Advanced Database Systems (SEBD 2014 – Discussion Paper).
24. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari: "Preference-based Query Answering in Datalog± Ontologies". Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013), pp. 1017– 1023.

23. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Query Answering in Probabilistic Datalog \pm Ontologies under Group Preferences". Proceedings of the 2013 Int. Conf. on Web Intelligence (WI 2013), pp. 171–178.
22. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari: "Preference-based Query Answering in Probabilistic Datalog \pm Ontologies". Proceedings of the 12th International Conference on Ontologies, Databases, and Applications of Semantics (ODBASE 2013), OTM Conferences 2013, pp. 501–518.
21. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari: "Complexity of Inconsistency-Tolerant Query Answering in Datalog \pm ". Proceedings of the 12th International Conference on Ontologies, Databases, and Applications of Semantics (ODBASE 2013), OTM Conferences 2013, pp. 488–500.
20. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Group Preferences for Query Answering in Datalog \pm Ontologies". Proceedings of the 7th International Conference on Scalable Uncertainty Management (SUM 2013), pp. 360–373.
19. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari: "Preference-based Query Answering in Datalog \pm Ontologies". Proceedings of the 26th International Workshop on Description Logics (DL 2013), pp. 791–803.
18. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari: "Complexity of Inconsistency-Tolerant Query Answering in Datalog \pm ". Proceedings of the 26th International Workshop on Description Logics (DL 2013), pp. 804–815.
17. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, Oana Tifrea-Marcuska: "Query Answering in Datalog \pm Ontologies under Group Preferences and Probabilistic Uncertainty". Proceedings of the 2nd International Workshop on Data Management in the Social Semantic Web (DMSSW 2013). Lecture Notes in Computer Science Volume 8295, 2013, pp. 192–206.
16. Thomas Lukasiewicz, Maria Vanina Martinez, Giggio Orsi, Gerardo Simari: "Heuristic Ranking in Tightly Coupled Probabilistic Description Logics". Proceedings of the 28th Conference on Uncertainty in Artificial Intelligence (UAI2012), pp. 554-563.
15. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo Simari: "Inconsistency-Tolerant Query Rewriting for Linear Datalog \pm ". Datalog in Academia and Industry, Second International Workshop, Datalog 2.0. Lecture Notes in Computer Science, vol. 7494, pp. 123-134. Springer, 2012.
14. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo Simari: "Consistent Answers in Probabilistic Datalog \pm Ontologies". Proceedings of the 6th International Conference on Web Reasoning and Rule Systems (RR 2012). Lecture Notes in Computer Science, vol. 7497, pp. 156-171. Springer, 2012.
13. Maria Vanina Martinez, Alejandro J. García, Guillermo R. Simari: "On the Use of Presumptions in Structured Defeasible Reasoning". Proceedings of the 4th International Conference on Computational Models of Argument (COMMA2012), pp. 185-196.
12. Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo Simari: "Inconsistency Handling in Datalog \pm Ontologies". Proceedings of the 20th European Conference on Artificial Intelligence (ECAI 2012), pp. 558-563.
11. Maria Vanina Martinez: "Contributions to Personalizable Knowledge Integration.". Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI 2011), pp. 2826-2827.
10. Maria Vanina Martinez, Francesco Parisi, Andrea Pugliese, Gerardo I. Simari, V.S. Subrahmanian: "Efficient Policy-based Inconsistency Management in Relational Knowledge Bases". Proceedings of the 4th International Conference on Scalable Uncertainty Management (SUM 2010). Lecture Notes in Artificial Intelligence, vol. 6379, pp. 264-277. Springer Berlin/Heidelberg, 2010.
9. Maria Vanina Martinez, Anthony Hunter: "Incorporating Classical Logic Argumentation into Policy-based Inconsistency Management in Relational Databases", The Uses of Computational Argumentation, 2009 AAI Fall Symposium, AAAI Press.
8. Avigdor Gal, Maria Vanina Martinez, Gerardo I. Simari, V.S. Subrahmanian: "Aggregate Query Answering under Uncertain Schema Matching." Proceedings of the 25th International Conference on Data Engineering (ICDE 2009), pp. 940-51, IEEE.
7. Gerardo I. Simari, Maria Vanina Martinez, Amy L. Sliva, V.S. Subrahmanian: "Scaling Most Probable World Computation in Probabilistic Logic Programs." Proceedings of the 2nd International Conference on Scalable Uncertainty Management (SUM 2008). Lecture Notes in Artificial Intelligence, vol. 5291, pp. 372-385. Springer Berlin/Heidelberg, 2008.
6. John Dickerson, Maria Vanina Martinez, Diego Reforgiato, V.S. Subrahmanian: "CIG: Cultural Islands and Games." Proceedings of the 2nd International Conference on Computational Cultural Dynamics, pp.26-31. Dynamics, AAAIPress, 2008.

5. Maria Vanina Martinez, Gerardo I. Simari, Amy L. Sliva, V.S. Subrahmanian: "The SOMA Terror Organization Portal (STOP): Social Network and Analytic Tools for the Real-Time Analysis of Terror Groups." Proceedings of the First International Workshop on Social Computing, Behavioral Modeling and Prediction, pp. 9-18. Springer US, 2008.
4. Maria Vanina Martinez, Francesco Parisi, Andrea Pugliese, Gerardo I. Simari, V.S. Subrahmanian: "Inconsistency Management Policies." Proceedings of the 11th International Conference on Principles of Knowledge Representation and Reasoning (KR 2008), pp. 367-377, AAAI Press.
3. Maria Vanina Martinez, Andrea Pugliese, Gerardo I. Simari, V.S. Subrahmanian, Henri Prade: "How Dirty is Your Relational Database? An Axiomatic Approach." 9th European Conference on Symbolic and Quantitative Approaches to Reasoning under Uncertainty (ECSQARU2007). Lecture Notes in Artificial Intelligence, vol.4724, pp.103-114. Springer Berlin/Heidelberg, 2007.
2. Samir Khuller, Maria Vanina Martinez, Dana Nau, Gerardo Simari, Amy L. Sliva, V.S. Subrahmanian: "Finding Most Probable Worlds of Probabilistic Logic Programs." International Conference on Scalable Uncertainty Management (SUM 2007). Lecture Notes in Artificial Intelligence, vol. 4772, pp. 45-59. Springer Berlin/Heidelberg, 2007.
1. Amy L. Sliva, Maria Vanina Martinez, Gerardo I. Simari, V.S. Subrahmanian: "SOMA Models of the Behaviors of Stakeholders in the Afghan Drug Economy: A Preliminary Report". First International Conference on Computational Cultural Modeling (ICCCD 2007), pp. 78-86. AAAI Press.

Thesis:

- Maria Vanina Martinez: "[Personalizable Knowledge Integration](#)". Doctoral Thesis, University of Maryland College Park, USA. August 2011.
- Maria Vanina Martinez: "[An Axiomatic Approach to Measure the Degree of Dirtiness in Relational Databases](#)". Scholarly paper, Masters of Science, University of Maryland College Park, USA. 2009.
- Maria Vanina Martinez: "[Communication among BDI Agents: A Proposal for bearing Argumentation-based Negotiation](#)". Tesis de Licenciatura (Undergraduate thesis), Universidad Nacional del Sur, Bahía Blanca, Argentina. 2005.

Scientific Reports and Other Publications:

- Sergio Abriola, Santiago Cifuentes, Maria Vanina Martínez, Nina Pardo, Edwin Pin: On the complexity of finding set repairs for data-graphs. <http://arxiv.org/abs/2206.07504> (2022).
- Gaston E. Zanitti, Yamil Soto, Valentin Iovene, Maria Vanina Martinez, Ricardo Oscar Rodríguez, Gerardo I. Simari, Demian Wassermann: "Scalable Query Answering under Uncertainty to Neuroscientific Ontological Knowledge: The NeuroLang Approach." [CoRR abs/2202.11333](#) (2022).
- Luciana Micha, Maria Vanina Martinez, Pablo Farías, Ricardo O. Rodriguez, "[Inteligencia Artificial y Sistemas Autónomos de Aplicación de la fuerza: Generando conceptos que faciliten el debate y orientación de estrategias](#)". SEHLAC September 2021.
- Maria Vanina Martinez and Ricardo O. Rodriguez. "[Deconstructing AI: Artificial intelligence, emerging technologies and law: interdisciplinary reflections](#)". Vol. 2. Cecilia Danesi, Ed. Hammurabi Editorial. 2021.
- Maria Vanina Martinez and Ricardo O. Rodriguez: "[Contributions to the debate on the use of Artificial Intelligence for armament purposes](#)". SEHLAC 2020.
- "[Ethical Considerations on the Development of Computer Tools for the Storage and Comparison of Genetic Profiles for Forensic Purposes](#)". Recommendation of the National Committee on Ethics in Science and Technology (CECTE), Principal rapporteur. 2020
- "[Ethics of Research in the Context of the COVID-19 Pandemic](#)". Recommendation of the National Committee on Ethics in Science and Technology (CECTE). 2020.
- Maria Vanina Martinez and Ricardo O. Rodriguez: "[The IA, the new arms race and the role of scientists](#)".
- Thomas Lukasiewicz, Maria Vanina Martinez, Livia Predoiu, and Gerardo I. Simari: "Information Integration with Provenance on the Semantic Web via Probabilistic Datalog+/-". Department of Computer Science, University of Oxford, [Technical Report RR-15-01](#), January 2015.
- Thomas Lukasiewicz, Maria Vanina Martinez, and Gerardo Simari: "A General Framework for Inconsistency-Tolerant Query Answering in Datalog+/-". Department of Computer Science, University of Oxford, [Technical Report RR-14-04](#).

- Tommaso Di Noia, Thomas Lukasiewicz, [Maria Vanina Martinez](#), Gerardo Simari, and Oana Tifrea-Marcuska: "Computing k-Rank Answers with Ontological CP-Nets". Department of Computer Science, University of Oxford, [Technical Report RR-14-03](#).
- Thomas Lukasiewicz, [Maria Vanina Martinez](#), Cristian Molinaro, Livia Predoiu, y Gerardo I. Simari: "Top-k Query Answering in Datalog+/- Ontologies under Subjective Reports (Technical Report)". <https://arxiv.org/abs/1312.0032>, 2013.

F. PAST RESEARCH EMPLOYMENT

- Member of Institute for Computer Science and Engineering (Universidad Nacional del Sur – CONICET) (August 2014 – May 2018).
- Member of the Artificial Intelligence Research and Development Laboratory (LIDIA) in the Department of Computer Science and Engineering, Universidad Nacional del Sur, Bahía Blanca, Argentina (September 2014 – 2018).
- Postdoctoral Research Assistant in the Department of Computer Science, University of Oxford (October 2011–September 2014).
- Graduate Research Assistant in the University of Maryland Institute for Advanced Computer Studies (UMIACS, USA) under the supervision of V. S. Subrahmanian (August 2006 – August 2011).
- Member of the Laboratory for Computational Cultural Dynamics (LCCD) in the University of Maryland Institute for Advanced Computer Studies, USA (October 2005 – August 2011).
- Member of the Artificial Intelligence Research and Development Laboratory (LIDIA) in the Department of Computer Science and Engineering, Universidad Nacional del Sur, Bahía Blanca, Argentina (March 2004 – August 2005).

G. TEACHING EXPERIENCE

At Department of Computer Science, University of Buenos Aires (UBA), Argentina

Graduate Level		
Computational Intelligence - (PhD Program)	1 st and 2 nd Semester 2021	Professor
Ethical Aspects of Artificial Intelligence - (PhD Program)	1 st Semester 2019, 2020, 2021, 2022	Professor
Integration of Knowledge Bases - (PhD Program)	2 nd Semester 2019	Professor
Integration of Knowledge Bases - (PhD Program)	1 st Semester 2018	Visiting Professor

Under- Graduate Level		
Concepts of Computational Intelligence	1 st and 2 nd Semester 2021	Professor
Ethical Aspects of Artificial Intelligence	1 st Semester 2019, 2020, 2021, 2022	Professor
Databases	2 nd Semester 2018, 2021 1 st Semester 2019, 2020, 2022	Professor

At Department of Computer Science, University of Oxford, UK

Graduate Level		
Databases – (Msc and PhD Program)	2013	Class Tutor
Theory of Data and Knowledge bases	2013, 2014	Class Tutor

- (Msc and PhD Program)		
Theory of Data and Knowledge Bases - (Msc and PhD Program)	2012	Teaching Assistant

At Department of Computer Science and Engineering, Universidad Nacional del Sur (UNS), Argentina

Under-Graduate Level		
Formal Methods for Software Engineering	2015, 2016	Professor
Software Design	2016, 2017	Head Teaching Assistant
Concepts of Artificial Intelligence	2015	Head Teaching Assistant
Problem Analysis and Comprehension	2003, 2004, 2005	Teaching Assistant
Problem Solving and Algorithms	2001, 2002	Undergraduate Teaching Assistant
Elements of Programming	2002	Undergraduate Teaching Assistant
Fundamentals of Computer Science	2002	Undergraduate Teaching Assistant
Logic for Computer Science	2004, 2005	Undergraduate Teaching Assistant
Database Theory and Design	2004	Undergraduate Teaching Assistant
Programming Languages	2005	Undergraduate Teaching Assistant

Other Teaching Experience:

- “Central Notions on Big Data”, Higher Diploma in Artificial Intelligence and Society, Universidad Tres de Febrero, Argentina. Short course, April 2022.
- Co-organizer of UNESCO’s MOOC: “[Artificial Intelligence in Latin America and the Caribbean: so that no one is left behind](#)”. November 2021.
- “Deconstructing the AI”, Visiting Professor at University of San Martin, Argentina. Short course, November 2020.

H. INVITED SPEAKER AND PARTICIPATION AS EXPERT IN EVENTS AND PANELS

Invited Speaker (selected) in AI and KR&R:

1. “A Framework for XAI in Socio-Technical Systems” at [#frAlday – All You Want to Know About AI – Seminar Series](#). Centre for Transdisciplinary AI at Umeå University, Sweden, October 2022.
2. “A Framework for XAI in Socio-Technical Systems” at [Institut D’Investigacio en Inteligencia Artificial \(IIIA-CSIC\)](#), Barcelona, May 2022.
3. **Keynote Speaker:** “NETDER: An Architecture for Reasoning About Malicious Behavior” at 20th Mexican International Conference on Artificial Intelligence (MICA I 2021), September 2021.
4. Tutorial: “Explanation-Friendly Query Answering under Uncertainty” 15th International Summer School 2019, Bolzano, Italy, September 20–24, 2019.
5. “Knowledge Dynamics in Social Environments”. International Center for Computational Logic, TU Dresden, Germany, September 2019.
6. “Inconsistency-Tolerant Query Answering: A brief overview from the OBDA PoV”. Department of Computer Science, University of Luxembourg. November, 2017.
7. **Keynote speaker:** “Probabilistic Reasoning with Preferences for the Social Semantic Web” at [Logical Foundations for Uncertainty and Machine Learning](#) Workshop at IJCAI-17, Melbourne, Australia. August 2017.
8. **Keynote speaker:** “Knowledge Engineering for Intelligent Decision Support”. Early Career Spotlight, IJCAI 2017, Melbourne, July 2017.
9. “Inconsistency-Tolerant Query Answering: A brief overview from the OBDA PoV”. Department of Informatics, King’s College London, UK. October, 2016.
10. “Inconsistency-Tolerant Query Answering: A brief overview from the OBDA PoV”. School of Computing and

Engineering, University of Huddersfield, Huddersfield, UK. September 2016.

11. "Argumentation and Belief Revision in Datalog +/- Ontologies" at Dagstuhl Seminar 13231 on Belief Change and Argumentation in Multi-Agent Scenarios. Schloss Dagstuhl, Alemania, June 2013.
12. "The Intelligence of Machines: faster, smarter, and more helpful machines every day?" Computer Science Academic Sessions for the Oxford Pathways Year 12 Study Days (Brasenose College, University of Oxford, UK. March 2012) and Women in Science Residential Programme (Jesus College, University of Oxford, UK. April 2013).
13. "Inconsistency-Tolerant Query Answering in Datalog+/-". Dipartimento di ingegneria Informatica, Modellistica, Elettronica e Sistemistica (DIMES), Università della Calabria. Rende, Italy, June 2014.
14. "On the Use of Presumptions in Structured Defeasible Reasoning". United States Military Academy at West Point, Network Science Center. West Point, USA, September 2013.
15. "Personalizable Knowledge Management. Invited talk at Syracuse University, Department of Electrical Engineering and Computer Science, Syracuse, USA, April 2011.
16. "Effectively Managing Uncertainty in Relational Databases". Google Workshop for Women Engineers, Mountain View, California, USA, February 2009.

Invited Speaker and Participation in Panels as Expert in Ethics of AI (selected):

1. Regional Conference on the social and humanitarian impact of autonomous weapons. Title of the talk: "The risks of autonomous weapons. A southern perspective". Costa Rica. February 2023.
2. OECD Working Party on AI Governance approaches: tour de table on national AI policies. AIGO – OECD, Paris, France. November 2022.
3. Third Roundtable on LAWS: New Technologies, Artificial Intelligence and Autonomous Weapons. Title of the talk: "Ethical Dilemmas in light of Artificial Intelligence". SEHLAC - SG-SICA. June 2021.
4. First Roundtable on Emerging Technologies in the Area of LAWS. Organized by the Foreign Ministry of Colombia - May 2021.
5. "LAWS: Table-Top Exercises on the Human Element and Autonomous Weapons Systems" Security and Technology Programme (SecTec) at the United Nations Institute for Disarmament Research (UNIDIR): <https://unidir.org/publication/table-top-exercises-human-element-and-autonomous-weapons-system>. October 2020.
6. "UNIDIR/ODA Webinar on Technological Aspects of LAWS". Security and Technology Programme (SecTec) at the United Nations Institute for Disarmament Research (UNIDIR). September 2020.
7. "The Impending Age of Killer Robots? How our data fuels autonomous weapons, and why it is not too late to stop them". [RightsCon 2020](#). July 2020.
8. [2nd Pugwash Workshop on Cyber Security and Warfare](#), co-sponsored by the Mission of Brazil to the United Nations Office in Geneva, Palais des Nations, 30-31 January 2020, Geneva, Switzerland. Title of the talk: "Weapons based on AI: technical and ethical considerations for regulation".
9. [2nd HUMAINT Winter school on Fairness, Accountability and Transparency in Artificial Intelligence](#), organized by Joint Research Centre, European Commission, Seville, Spain, January 2020.
10. UNESCO Regional Forum on Artificial Intelligence in Latin America and the Caribbean: "Towards a Humanistic Approach". Panel: "[Artificial Intelligence and the Future of Scientific Research and Environmental Management](#)". 12th-14th December 2019.
11. Speaker at "Seminar in AI and Ethics: the challenge of autonomous lethal weapons." Association for Public Policies (APP), Human Security for Latin America and the Caribbean (SEHLAC) and the Campaign to stop Killer Robots. Buenos Aires, Argentina. May 2019.
12. "Artificial Intelligence applied to the Development of Autonomous Weapons: technological and legal challenges". Association for Public Policies (APP), SEHLAC, the Campaign to stop Killer Robots, and Catholic University Argentina. November 2018.
13. Panel moderator at Workshop "Ethics in science and technology: Challenges for synthetic biology, artificial intelligence and global climate change." National Committee for Ethics in Science and Technology. May 2019, Argentina.
14. "T20 Argentina summit", UNESCO: "Artificial Intelligence: Ethical, Social and Human Rights Challenges". September, 2018.

Invited Speaker (other):

1. "[Navigating the Digital Transformation Journey Researchers and machines working together to drive companies forward.](#)" 2019 ESOMAR Congress. September 2019, Edinburgh, Scotland.
2. "Embracing the Power of AI: How the Banking Industry is Using A.I. to Drive Decisions". 2018 Raleigh CIO Forum Premier. December 2018, Raleigh, USA.

I. ACADEMIC SERVICE

ADVISING

PhD and Masters Advising:

- Damián Furman, PhD student in Computer Science at Universidad de Buenos Aires and doctoral scholar at CONICET. Thesis title: "Learning Representations for Argument Mining". Role: Co-advisor (thesis) and advisor (scholarship). Ongoing.
- Cristian Damián Pacifico, PhD student in Computer Science at Universidad Nacional del Sur. Thesis title: "Dynamics of Desires in BDI Agents". Role: Co-advisor. Ongoing.
- Paola Daniela Budán, PhD in Computer Science at Universidad Nacional del Sur. Thesis title: "Interpretations of Similarity for Argumentation Frameworks". Role: Co-advisor. Defended December 2020. Grade: 10/10.
- Luis Magariños, Master student in Information Systems at Universidad Nacional de Entre Ríos. Thesis title: "A Comparative Analysis of Architectural Styles and Patterns". Role: Co-advisor. Ongoing.
- Paola Daniela Budán, Master student in Computer Science at Universidad Nacional del Sur. Thesis title: "Argumentation Frameworks and Critical Thinking in Artificial Intelligence". Role: Co-advisor. Defended October 2016. Grade: 10/10.

Researchers and Scholarships Advising:

- Postdoctoral fellowship supervisor of Dr. Juan Manuel Perez. Project: "Hybrid methods to identify and combat disinformation processes in social networks". Work place: Institute for Computer Science (ICC) CONICET – UBA. Period: 2022-2024.
- Postdoctoral fellowship supervisor of Dr. Paola Daniela Budán. Project: "Representation and Reasoning Based on Schemes of Argumentation by Similarities combined with Expert-based Argumentation Schemes". Work place: Institute for Computer Science (ICIC) - CONICET - Universidad Nacional del Sur (UNS). Period: 2022-2024.
- Dr. Juan Carlos Teze: Assitant Researcher in CONICET. Work place: Institute for Computer Science (ICIC) - CONICET - Universidad Nacional del Sur (UNS).
- Lic. Juan Manuel Perez: doctoral scholarship at CONICET. Work place: Institute for Computer Science (ICC) CONICET - UBA. Defended PhD Thesis June 2022. Grade 10/10.

Undergraduate Advising:

- Co-Direction Computer Science Undergraduate Thesis: "Exploring text embeddings in computational argumentation". Juan Junqueras. University of Buenos Aires, Argentina. Ongoing.
- Co-Direction Computer Science Undergraduate Thesis: "Adaptación y optimización de BERT multilingual con bajos recursos al idioma y al dominio". Gonzalo Sánchez Cano. University of Buenos Aires. Defended December 2022. Grade: Sobresaliente (10/10). Universidad de Buenos Aires, Argentina
- Direction Computer Science Undergraduate Thesis: "Blockchain Network Diffusion and ontological reasoning based on Existential Rules". Julian Len. Defended Septiembre 2022. Grade: Sobresaliente (10/10). Universidad de Buenos Aires, Argentina.
- Direction Computer Science Undergraduate Thesis: "BayCon: Model-agnostic Bayesian Counterfactual Generator". Piotr Romashov. Defended June 2022. Grade: Sobresaliente (10/10). Universidad de Buenos Aires, Argentina.

- Direction Computer Science Undergraduate Thesis: “On the Complexity of Finding Data-graphs Repairs under Path and Node Constraints”. Santiago Cifuentes. Defended April 2022. Grade: Sobresaliente (10/10). Universidad de Buenos Aires, Argentina.
- Co-Direction Computer Science Undergraduate Thesis: “Datalog +/-, an inconsistency-tolerant interface”. Pablo Fromer. Defended April 2020, Grade: Sobresaliente (10/10). Universidad de Buenos Aires, Argentina.

INSTITUTIONAL SERVICE

- Member of [AI CONNECT Program](#): The Atlantic Council GeoTech Center and the U.S. Department of State Bureau of Cyberspace and Digital Policy (March 2022 - present).
- Founding member of Pugwash Argentina ([Pugwash Conferences on Science and World Affairs](#)), (March 2022 - present).
- Member of the Academic Committee for Specialization in Data Science Program, Universidad Nacional del Sur, (July 2020 - present).
- Member of the National Committee on Ethics in Science and Technology (CECTE), (February 2019 – present).
- Member of the Committee of the Master in Data Science, Faculty of Exact and Natural Sciences, University of Buenos Aires (December 2018 – present).
- Member of the PhD Studies Committee, Department of Computer Science, University of Buenos Aires, (October 2018 – Feb 2023).
- Academic tutor in the frame of the project “Strategic Plan for the Training of Engineers (PEFI)” 2013–2016, Universidad Nacional del Sur, Bahía Blanca, from March 2016 to December 2016.
- Secretary of the Oxford Women in Computer Science Society (OxWoCS) en University of Oxford during Summer and Michaelmas Term 2013.
- Co-founder of Oxford Women in Computer Science Society at University of Oxford (<http://www.cs.ox.ac.uk/societies/women/>).
- Member of the Maryland Center for Women in Computing at University of Maryland College Park (2006-2010).

SCIENTIFIC MANAGEMENT

Research Groups Direction:

- Co-director of the Cognitive Engineering and Databases research group (Universidad Nacional del Sur - UBA), since 2014.

Doctoral Thesis Committee:

- Gastón Ezequiel Zanitti. Thesis Title: “Development of a probabilistic domain-specific language for brain connectivity including heterogeneous knowledge representation”. Université Paris-Saclay, Paris, France. March 2023.
- Miguel Martin. Thesis Title: “Inferencia de estructuras y patrones temporales para el modelado de la expectativa, certeza y ambigüedad en el pulso musical”. Universidad de Buenos Aires, Argentina. Septiembre 2022.
- Valentin Ivone. Thesis Title: “Langage de programmation logique probabiliste pour la meta-analyse de données hétérogènes et incertaines en neuroscience cognitive”. Université Paris-Saclay, Paris, France. November 2021.
- Ramiro Galvez. Thesis Title: “Modelado computacional de mimetización prosódica entre hablantes para mejorar la interacción humano-computadora”. Universidad de Buenos Aires, Argentina. February 2021.

Evaluation of Project Proposals and Researchers Promotions:

- Evaluator of research project proposals for the Research Agency of Uruguay (ANII).
- Evaluator for research and technological development projects for FONTAR (Argentinian Technological Fund), National Agency of Scientific and Technological Promotion (ANPCyT), Argentina.

- Researchers Promotions within CONICET: evaluator in the process of promotions to the Researcher Career. Advisory Committee of Informatics and Communications, CONICET, Argentina.
- Research Project Proposals: Projects of Scientific Research and Technology - PICT 2016. National Agency of Scientific and Technologic Promotion FONCyT, Argentina.

Conference Steering Committee Member and Journal Editorial Board:

- Associate Editor of Transactions on Graph Data and Knowledge (TGDK), since 2023.
- Knowledge Representation and Reasoning (KR & R) since November 2021, Diversity and Inclusion representative.
- Data Mining and Management (specialty section of Frontiers in Big Data) since July 2021.
- COMMA (Computational Models of Argument) since September 2020.
- NMR (International Workshop of Non-monotonic Reasoning) since October 2020.

Member of Editorial Board:

- Frontiers in Computer Science, since May 2021.
- "Handbook of Research on Culturally-Aware Information Technology: Models and Perspectives" Dr. Emmanuel G. Blanchard, McGill University, and Dr. Daniele Allard, eds. Dalhousie University, publisher IGI Global, 2010.

Conferences and Scientific Meetings Chair:

- Program Chair European Conference on Logics in Artificial Intelligence (JELIA) 2023.
- Workshops and Tutorial co-chair for [KR 2022](#) (19th International Conference on Principles of Knowledge Representation and Reasoning).
- Co-chair of the Diversity and Inclusion Committee of [KR 2021](#) (18th International Conference on Principles of Knowledge Representation and Reasoning).
- Co-chair for [NMR 2020](#) (18th International Workshop on Non-Monotonic Reasoning), collocated with KR 2020.
- Co-chair for [AMW 2020](#) (14th Alberto Mendelzon International Workshop on Foundations of Data management), May 2020, Cusco, Perú.
- Co-chair of promotion and communication of the 9th International Symposium on Foundations of Information and Knowledge Systems (FoKS 2016).
- Promotion co-chair for the International Joint Conference on Artificial Intelligence (IJCAI 2015).
- Local Organization co-chair for the International Conference on Scalable Uncertainty Management (SUM 2014, Oxford, UK).

Scientific Meeting Organizer:

- 35th School on Informatics 2022, University of Buenos Aires ([Escuela de Ciencias Informáticas - ECI](#)).
- Global meeting for the Campaign to Stop Killer Robots to be held in Buenos Aires from 26th—28th of February 2020.
- Spokesperson and contributing to the organization of the global meeting for the Campaign to Stop Killer Robots to be held in Buenos Aires from 26th—28th of February 2020.
- Workshop on Ethics in science and technology. Challenges for synthetic biology, artificial intelligence and global climate change. Discussion moderator. National Committee for Ethics in Science and Technology. Argentina, May 2019.

Senior Program Committee Member:

- Extended Semantic Web Conference, ESWC 2023.
- International Semantic Web Conference, ISWC 2022.
- AAAI Conference on Artificial Intelligence, 2021/2022/2023.
- International Conference on Autonomous Agents and Multi-Agent Systems, AAMAS 2022.
- International Joint Conference on Artificial Intelligence, IJCAI 2020/2021.

Program Committee Member:

- International Joint Conference on Artificial Intelligence since 2016.
- European Conference in Artificial Intelligence since 2018.
- International Conference on the Principles of Knowledge Representation and Reasoning since 2018.
- AAAI Conference on Artificial Intelligence since 2017.
- Conference on Uncertainty in Artificial Intelligence since 2013.

- Extended Semantic Web Conference (ESWC 2016).
- International Workshops on Nonmonotonic Reasoning (NMR 2016, 2018).
- International Semantic Web Conference (ISWC 2015, 2016).
- International Conference on Scalable Uncertainty Management (SUM 2015).
- Argumentation in Multi-Agent Systems Workshop Series (ArgMAS 2015).
- Alberto Mendelzon Workshop International Workshop on Foundations of Data Management (AMW 2015, 2016).
- International Web Rule Symposium (RuleML 2015).
- International Conference on Web Engineering (ICWE 2015, Demos and Posters).
- International Conference on Computational Models of Argument (COMMA) since 2014.
- Italian Symposium on Advanced Database Systems (SEBD 2014).
- IEEE Region 10 Humanitarian Technology Conference (IEEE R10 HTC 2014).
- Workshop on Logics for Reasoning about Preferences, Uncertainty, and Vagueness (PRUV 2014).
- International Workshop on Semantic Digital Archives (SDA 2014).
- International Conference on Computational Cultural Dynamics (ICCCD 2009).
- Ibero-American Conference on Artificial Intelligence (IBERAMIA 2008, 2014, 2016).

Reviewer for Journals:

- Intelligent Systems and Applications (since April 2022).
- IEEE Intelligent Systems (since October 2020).
- ACM Transactions on Database Systems (ACM TODS, since 2019).
- ACM Transactions on Computational Logic (ACM TOCL since 2018).
- Semantic Web Journal (SWJ, since 2017).
- Int. Journal of Approximate Reasoning (IJAR, since 2016).
- Int. Journal of Uncertainty, Fuzziness & Knowledge-Based Systems (IJUFKS, since 2016).
- Theory and Practice of Logic Programming (TPLP, since 2015).
- IfCoLog Journal of Logics and their Applications (since 2015).
- Journal of Applied Logic (since 2014).
- Fuzzy sets and systems (since 2014).
- ACM Transactions on Intelligent Systems and Technology (ACM TIST, since 2013).
- Journal of Distributed and Parallel Databases (DAPD, since 2011).
- Annals of Mathematics and Artificial Intelligence (AMAI, since 2010).
- Fundamenta Informaticae (since 2009).
- Mathematical Reviews (since 2011).
- Information Sciences Journal (since 2012).

J. SCIENTIFIC ADVICING

- Scientific Advisor on Artificial Intelligence for the National Directorate for the Promotion of Scientific Policy (in charge of the international cooperation) of Ministry of Science and Technology in Argentina since August 2021 - [RESOL-2021-487-APN-MCT](#).
- Invited by the Ministry of Science and Technology in Argentina to participate in the regional consultation and final revision committee of the [UNESCO 2021 recommendation on the ethics of artificial intelligence](#).
- Invited as an expert in Artificial Intelligence, to participate in the construction of the [National Strategic plan for AI for the Argentinian Republic](#).

K. INTERNATIONAL ACADEMIC STAYS/VISITS

- Universidad da Madeira, Portugal, May 2022. Visit to Dr. Eduardo Fermé at [Group of Knowledge Representation and Reasoning](#).
- TU Dresden, Germany, September 2019. Visit to Dr. Sebastian Rudolph at the [International Center For Computational Logic](#).
- University of Luxemburg, Luxemburg, November 2017 (1 month) and July 2018 (1 month). In the framework of research project "[MIREL: MIning and REasoning with Legal texts](#)".
- [Institut D'Investigacio en Intelligencia Artificial \(IIIA-CSIC\)](#), Barcelona, February-May 2017. Visit to Dr. Lluís Godo and Dr. Carles Sierra.
- University of Oxford, UK, September 2016. Visit to Dr. Thomas Lukesiewicz.

- King's College London, UK, October 2016. Visit to Drs. Simon Parsons and Elizabeth Sklar.
- University of Huddersfield, UK, August-September 2016. Visit to Dr. Grigoris Antoniou in the framework of research project "MIREL: Mining and REasoning with Legal texts".
- University of Oxford, UK, February 2015. Visit to Dr. Thomas Lukesiewicz.
- Università della Calabria, Italy, July 2014. Visit to Dr. Sergio Greco.
- University of Liverpool, UK, March 2014. Visit to Dr. Simon Parsons.
- US Military Academy at West Point, West Point, USA, September 2013. Visit to Dr. Paulo Shakarian.

L. INDUSTRIAL AND COMMERCIAL ACTIVITIES

- Consultant for Sistemas Globales S.A. for the AI Studio, from August 2018 – March 2020. Project: AI – Code Generation. Leader: Agustin Huerta (AI Studio, Globant). Role: consultant on Artificial Intelligence.
- Consultant for The Black Puma S.A.: Several Projects on Data Management and Data Governance.

Maria Vanina Martinez Posse
March 2023