Curriculum Vitae
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Dr. Maikel Leon

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Education

- Ph.D. in Computer Science and Artificial Intelligence (AI applied to transportation). Hasselt University, Belgium (2012)
- M.Sc. in Computer Science, "Summa Cum Laude," Central University of Las Villas, Cuba (2007)
- B.Sc. in Computer Science, "Summa Cum Laude," Central University of Las Villas, Cuba (2006)

Employment History

- Present – 2015: Business Technology Dept., University of Miami Business School, Florida, US.
- 2014 – 2013: Bachelor of Applied Science (Information Management), Palm Beach State College, Florida, US.
- 2012 – 2006: Computer Science Dept., Central University of Las Villas, Santa Clara, Villa Clara, Cuba.

Publication metrics

- Google Scholar report:
  - h-index: 20 | i10-index: 26
  - Total number of citations: 1,118

Journal Publications (with Impact Factor)

1. **Leon, M.** (2026). Fuzzy cognitive maps: A comprehensive survey and comparative analysis. Computers, Materials & Continua. Tech Science Press. https://doi.org/10.32604/cmc.2026.087930. Impact Factor: **2.4**
2. **Leon, M.** (2026). Governing generative AI in organizations: A design theory and quasi-experimental field study of sociotechnical guardrails. The Journal of Supercomputing, 82(12), Article 641. Springer. https://doi.org/10.1007/s11227-026-08760-7. Impact Factor: **3.5**
3. **Leon, M.** (2026). Layerwise conditioned backpropagation: A curvature-aware reparameterization of the backward pass with convergence guarantees. Big Data and Cognitive Computing, 10(8), Article 272. MDPI. https://doi.org/10.3390/bdcc10080272. Impact Factor: **5.3**
4. **Leon, M.** (2026). Agentic AI and labor disruption: A comprehensive review, measurement, and policy framework. Journal of Engineering and Technology Management, 81, Article 101993. Elsevier. https://doi.org/10.1016/j.jengtecman.2026.101993. Impact Factor: **4.3**
5. **Leon, M.** (2026). Publisher-built generative AI assistants in U.S. higher education: A critical review and a reproducible TRIAD–JTBD evaluation framework. Algorithms, 19(6), Article 492. MDPI. https://doi.org/10.3390/a19060492. Impact Factor: **2.6**
6. **Leon, M.** (2026). Cognitive mapping variants and their training algorithms. Computer Science Review, 59, Article 100862. Elsevier. https://doi.org/10.1016/j.cosrev.2025.100862. Impact Factor: **17.5**
7. **Leon, M.** (2026). Generative AI as a general-purpose technology: Foundations, applications, and labor market implications through 2030. Big Data and Cognitive Computing, 10(3), Article 69. MDPI. https://doi.org/10.3390/bdcc10030069. Impact Factor: **5.3**
8. **Leon, M.** (2026). GPT-5 and open-weight large language models: Advances in reasoning, transparency, and control. Information Systems, 136, Article 102620. Elsevier. https://doi.org/10.1016/j.is.2025.102620. Impact Factor: **4.0**
9. **Leon, M.** (2026). Lifecycle-based governance to build reliable ethical AI systems. Systems Research and Behavioral Science, 43(3), 1116–1132. Wiley. https://doi.org/10.1002/sres.70014. Impact Factor: **1.8**
10. **Leon, M.** (2026). Investing in AI interpretability, control, and robustness. Algorithms, 19(2), Article 136. MDPI. https://doi.org/10.3390/a19020136. Impact Factor: **2.6**
11. Nápoles, G., Jastrzebska, A., Grau, I., Salgueiro, Y., & **Leon, M.** (2026). A Review on Fuzzy Cognitive Mapping: Recent Advances and Algorithms. Big Data and Cognitive Computing, 10(1), Article 22. MDPI. https://doi.org/10.3390/bdcc10010022. Impact Factor: **5.3**

12. Nápoles, G., Hoitsma, F., Knoben, A., Jastrzebska, A., & **Leon, M.** (2023). Prolog-based agnostic explanation module for structured pattern classification. Information Sciences, 622, 1196–1227. Elsevier. https://doi.org/10.1016/j.ins.2022.12.012. Impact Factor: **6.0**
13. Nápoles, G., Salgueiro, Y., Grau, I., & **Leon, M.** (2023). Recurrence-Aware Long-Term Cognitive Network for Explainable Pattern Classification. IEEE Transactions on Cybernetics, 53(10), 6083–6094. IEEE. https://doi.org/10.1109/TCYB.2022.3165104. Impact Factor: **11.3**
14. Nápoles, G., **Leon, M.**, Grau, I., & Vanhoof, K. (2018). FCM Expert: Software Tool for Scenario Analysis and Pattern Classification Based on Fuzzy Cognitive Maps. International Journal on Artificial Intelligence Tools, 27(7), Article 1860010, 1–25. World Scientific. https://doi.org/10.1142/S0218213018600102. Impact Factor: **1.0**
15. **Leon, M.**, Mkrtchyan, L., Depaire, B., Ruan, D., & Vanhoof, K. (2014). Learning and clustering of fuzzy cognitive maps for travel behaviour analysis. Knowledge and Information Systems, 39(2), 435–462. Springer. https://doi.org/10.1007/s10115-013-0616-z. Impact Factor: **3.6**
16. **Leon, M.**, Nápoles, G., Bello, R., Mkrtchyan, L., Depaire, B., & Vanhoof, K. (2013). Tackling Travel Behaviour: An approach based on Fuzzy Cognitive Maps. International Journal of Computational Intelligence Systems, 6(6), 1012–1039. Taylor & Francis. https://doi.org/10.1080/18756891.2013.816025. Impact Factor: **4.0**
17. Hannes, E., Kusumastuti, D., **Leon, M.**, Janssens, D., Vanhoof, K., & Wets, G. (2012). Mental maps and travel behaviour: meanings and models. Journal of Geographical Systems, 14, 143–165. Springer. https://doi.org/10.1007/s10109-010-0144-2. Impact Factor: **2.8**

Peer review and editorial activity

- Discover Informatics, Springer Nature: Editorial Board Member
- Algorithms, MDPI: Guest Editor, Special Issue “AI-Driven Business Analytics Revolution” (2025–2026), Reviewer
- Applied Sciences, MDPI: Reviewer
- Applied Soft Computing, Elsevier: Reviewer
- Applied System Innovation, MDPI: Reviewer
- Behavioral Sciences, MDPI: Reviewer
- Big Data and Cognitive Computing, MDPI: Reviewer
- Bioengineering, MDPI: Reviewer
- Biomimetics, MDPI: Reviewer
- BMC Public Health, Springer Nature: Reviewer
- Computers, MDPI: Reviewer
- Information, MDPI: Reviewer
- Information Sciences, Elsevier: Reviewer
- International Journal of Knowledge and Information Systems, Springer: Reviewer
- International Journal of Soft Computing, Springer: Reviewer
- Journal of Experimental and Theoretical Artificial Intelligence, Taylor & Francis: Reviewer
- Journal of Risk and Financial Management, MDPI: Reviewer
- Knowledge and Information Systems, Springer: Reviewer
- Machine Learning and Knowledge Extraction, MDPI: Reviewer
- Mathematical and Computational Applications, MDPI: Reviewer
- Prosthesis, MDPI: Reviewer
- Sensors, MDPI: Reviewer
- Soft Computing, Springer: Reviewer
- Sustainability, MDPI: Reviewer
- Systems, MDPI: Reviewer
- Technologies, MDPI: Reviewer
- IEEE Transactions on Computational Social Systems, IEEE: Reviewer
- IEEE Transactions on Fuzzy Systems, IEEE: Reviewer
- IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE: Reviewer
- World Development Sustainability, Elsevier: Reviewer
- Cengage: Textbook chapter and test bank reviewer
- FLAIRS Florida Artificial Intelligence Research Society Conference, Florida AI Research Society: Program Committee
- IEEE Symposium on Computational Intelligence for Security and Defense Applications (IEEE CISDA), IEEE: Program Committee
- IEEE Opportunity Research Scholars Symposium (ORSS), IEEE: Program Committee

University of Miami courses taught

- BUS 150 Business Analytics*
- BTE 210 Fundamentals of Business Technology & Innovation*
- BTE 271 Generative Artificial Intelligence for Business Technology*
- BTE 320 Programming: Fundamentals and Algorithms*
- BTE 371 Foundations of AI for Business Technology*
- BTE 413 Introduction to Machine Learning in Business Technology*
- BTE 423 Database Management Systems*
- BTE 471 Artificial Intelligence Programming for Business Management*
- BTE 499 Special Topics in Business Technology*
- BTE 601 Python Programming*
- BTE 609 Artificial Intelligence for Business
- BTE 613 Business Intelligence Technologies
- BTE 620 Database Development for High-Performance Computing
- BTE 621 Management Information Systems
- BTE 661 AI: Principles and Techniques
- BUS 663 Entrepreneurship & Innovation

* Course Content Creator

Televised interviews (present-2016)

- Univision Despierta America: Inteligencia Artificial ¿Debemos preocuparnos? 2023
- CNN Dinero: Deepfake: así funciona la creación de videos e imágenes falsas. 2021
- CNN Dinero: Dominio tecnológico: ¿Si no es Huawei, quién? 2019
- CNN Oppenheimer Presenta: Los autos del futuro (2018); ¿Nos van a reemplazar los robots? (2017); ¿Ocuparán los robots nuestro empleo? (2016)

Awards

- Best poster award. 39th International Florida Artificial Intelligence Research Society Conference (FLAIRS), Marco Island, FL, USA (2026)
- Best paper award. 29th IEEE International Conference on Tools with Artificial Intelligence (ICTAI), Boston, MA, USA (2017)
- Award for the Most Relevant Research in Computer Science from the Cuban National Academy of Sciences (2015)

Summary of other activities and services

- 2026 Teaching with AI: Harvard Business Impact Certificate
- 2024 Teaching with AI: Seizing Opportunities & Navigating Challenges cohort graduate
- 2024 Oracle Cloud Infrastructure Generative AI Certified Professional
- 2024 Harvard Business Publishing Fundamentals of Case Teaching Certificate
- 2023 UM QEP Faculty Fellow (COIL Collaborative Online International Learning track)
- 2022 UM QEP Faculty Fellow (PBL Problem-based Learning track)
- 2021 AWS Academy Educator Certified Professional
- AI Institute Fellow, Intelligent Computer Systems Research Institute (ICSRI), August 1, 2026 – present
- Director of the Intelligent Computer Systems Research Institute (ICSRI), July 1, 2025 – June 30, 2026
- Director of the Master of Science in Business Technology program, July 1, 2024 – June 30, 2025
- Taught executive education classes for Global Alumni, insurance companies, banks, and other organizations
- Member of the University of Miami Business School Latin America and Caribbean Initiative (LACI) advisory board
- Member of UStart@Miami program, instructed “Digital Transformation for Community Development” (2026, 2024, 2023, 2022)
- Member of the UM Hemispheric University Consortium Social Entrepreneurship Collaborative Center (HUC SECC)
- Chaired 2024 UM’s Student Research Symposium
- Chaired the “Learning/Teaching Methodologies and Assessment” session at the 13th Canada International Conference on Education (CICE 2023)
- Chaired TECHXPLORER 2023: Ecuadorian Chamber of Innovation and Technology, Ecuadorian Federation of Exporters in Miami Consulate