# Luis A. Quintero Domínguez

*Curriculum Vitae*

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## Summary


Luis A. Quintero-Domínguez is a Professor at the University of Sancti Spíritus, Cuba, with a BSc in Computer Science and a PhD in Technical Sciences. He teaches Artificial Intelligence and programming. His research focuses on computational intelligence, data science and the Internet of Things, applied to problems with social impact such as healthcare, sustainable agriculture and renewable energy. He leads the Artificial Intelligence and Internet of Things (AIoT) research group.


## Education

2017 – 2021 **PhD. Technical Sciences**, *Central University of Las Villas*, Santa Clara, Cuba

2017 **Visiting PhD. Student**, *Department of Computer Science and Numerical Analysis, University of Cordoba*, Córdoba, Spain

2013 – 2016 **MSc. Applied Computing**, *University of Ciego de Ávila*, Ciego de Ávila, Cuba

2007 – 2012 **BSc. Computer Science**, *Central University of Las Villas*, Santa Clara, Cuba

## Work Experience

2023 – present **Vice President**, *Cuban Association for Pattern Recognition (ACRP)*, Cuba

2022 – present **Head of Department**, *Computer Engineering Department, University of Sancti Spíritus "José Martí Pérez"*, Cuba

2012 – present **Professor**, *Computer Engineering Department, University of Sancti Spíritus "José Martí Pérez"*, Cuba

**Career path:** Lecturer → Assistant Professor → Associate Professor → Professor (2026)

Teaches Artificial Intelligence and Programming

## Selected Publications


[1] Martínez-López, Y., Saborit, M. G., ..., **Quintero-Domínguez, L.**, et al. (2026). UCO-UC-CICESE-Plenitas Team at HOPE-EXP 2026: A Hybrid Classical and Large Language Model Approach for Outcome-Oriented Expectation Analysis. In Proceedings of the Iberian Languages Evaluation Forum (IberLEF 2026) (Vol. 4273). CEUR.

[2] León Ávila, B. Y., Cotfas, P. A., **Quintero Domínguez, L. A.**, Cotfas, D. T., García Vázquez, C. A., & Pérez Baluja, O. (2024). Exploring the Potential of Supercapacitors in Solar Energy Harvesting Applications for Wireless Sensor Networks. In Alternative Energy Sources, Materials & Technologies (AESMT'24).

[3] Quintana-Zaez, J. C., **Quintero-Domínguez, L. A.**, Antón-Vargas, J. A., Sorí Gómez, J., & Quintana Bernabé, N. (2024). Clustering Opinion Polarity of Student's Strategies as Clues for Motivation. International Journal of Combinatorial Optimization Problems and Informatics, 15(5).

[4] Ávila, B. Y. L., Vázquez, C. A. G., Baluja, O. P., Alexandru, M., Cotfas, D. T., Cotfas, P. A., & **Domínguez, L. A. Q.** (2024). Protothread and Cooperative Multitasking Scheduler on the Arduino Framework. 2024 International Conference on Applied and Theoretical Electricity (ICATE).

[5] **Quintero-Domínguez, L. A.**, Morell, C., & Ventura, S. (2021). A propositionalization method of multi-relational data based on Grammar-Guided Genetic Programming. Expert Systems with Applications, 168, 114263.

[6] Antón-Vargas, J. A., **Quintero-Domínguez, L. A.**, Sosa-Gómez, G., & Rojas, O. (2021). Variable Mesh Optimization for Continuous Optimization and Multimodal Problems. In D. Oliva, E. H. Houssein, & S. Hinojosa (Eds.), Metaheuristics in Machine Learning: Theory and Applications (pp. 301–317). Springer, Cham.

[7] **Quintero-Domínguez, L. A.**, Morell, C., & Ventura, S. (2019). WordificationMI: Multi-relational data mining through multiple-instance propositionalization. Progress in Artificial Intelligence, 8(3), 375–387.

## Awards

2024 **Rector Award** , *University of Sancti Spíritus*, Sancti Spíritus, Cuba

2023 **Science Academy Provincial Award**, *Ministry of Science, Technology and Environment*, Sancti Spíritus, Cuba

2020 **National Young Researcher Award**, *Ministry of Science, Technology and Environment*, Cuba, Category: Computing

## Associations and Academic Networks

2025 – present **Youth Council of the Cuban Academy of Sciences**

2023 – present **Branch of the Cuban Academy of Sciences in Sancti Spíritus**

2021 – present **International Association for Pattern Recognition (IAPR)**

2021 – present **Cuban Association for Pattern Recognition (ACRP)**

2021 – present **Cuban Society of Mathematics and Computing (SCMC)**