

Francklin Iván Rivas Echeverría

Artificial intelligence · Research · Teaching

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ACADEMIC PROFILE

Systems engineer, PhD in Applied Sciences and law graduate. His career combines intelligent systems research, university teaching, academic leadership and collaboration with industry. His work spans Venezuela, Ecuador, Chile and the United States, with research in machine learning, computer vision, process control and AI applied to law.

30+

years of experience

+100

journal articles

19

books as author/editor

80+

supervised theses

SELECTED APPOINTMENTS

The University of Texas at Arlington | Since 2024

Associate Professor of Instruction, Computer Science and Engineering.

Kauel Inc. | Since 2021

Chief Research Officer. Research in applied artificial intelligence.

MIU City University Miami | Since 2022

Professor, researcher and Lead Instructor in Computer Engineering.

Pontificia Universidad Católica del Ecuador - Ibarra | Since 2016

Part-time professor in Systems Engineering.

Universidad Técnica Federico Santa María | 2018-2022

Informatics professor and Relationship Director. Chile.

Universidad de Los Andes | 1994-2018

Teaching in Systems Engineering; Full Professor from 2011. Venezuela.

EDUCATION

1993 · Systems Engineering · Universidad de Los Andes

1996 · MSc in Control Engineering · Universidad de Los Andes

2000 · PhD in Applied Sciences · Universidad de Los Andes

2017 · Law, cum laude · Universidad de Los Andes

2023 · Postgraduate program in AI and Machine Learning · Purdue University

Research and recognition

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SELECTED PUBLICATIONS

LegalBot-EC: An LLM-Based Chatbot for Legal Assistance in Ecuadorian Law

2025 · IEEE Access

DOI: [10.1109/ACCESS.2025.3580488](https://doi.org/10.1109/ACCESS.2025.3580488)

A study of YOLO architectures for wildfire and smoke detection in ground and aerial imagery

2025 · Results in Engineering

DOI: [10.1016/j.rineng.2025.104869](https://doi.org/10.1016/j.rineng.2025.104869)

Synthetic generated data for intelligent corrosion classification in oil and gas pipelines

2025 · Intelligent Systems with Applications

DOI: [10.1016/j.iswa.2024.200463](https://doi.org/10.1016/j.iswa.2024.200463)

A review of computer vision applications for asset inspection in the oil and gas Industry

2024 · Journal of Pipeline Science and Engineering

DOI: [10.1016/j.jpse.2024.100246](https://doi.org/10.1016/j.jpse.2024.100246)

SELECTED BOOKS

Control de Procesos (2020)

Co-author with Oscar Camacho and Andrés Rosales. Escuela Politécnica Nacional.

ISBN 978-9978-383-57-5

Ciencia, Innovación y Tecnología (2023)

Co-editor with Jhenny Cayambe and Ximena Coronado. Centro de Publicaciones PUCE.

ISBN 978-9978-375-68-6

AWARDS AND DISTINCTIONS

2025 · Forttuna Global 100 - The Power List

2024 · Visionary Award - Internet 2.0 Conference, Dubai

2024 · Magna Distinction - Universidad de El Salvador

2023 · Bicentennial Distinction - Universidad de Los Andes

2023 · Outstanding Leadership Award - Internet 2.0 Conference, Las Vegas

2021 · Outstanding Professor - Universidad Técnica Federico Santa María

IEEE Senior Member (2022).

TEACHING AND MENTORING

The CV records 62 undergraduate, 11 postgraduate and 8 doctoral theses. It also documents academic program coordination, leadership of Universidad de Los Andes' Intelligent Systems Laboratory and research projects.

PROFESSIONAL PROFILES

[Google Scholar](#) · [ResearchGate](#) · [LinkedIn](#)