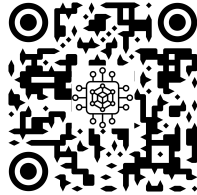


José Carlos Hernández Azucena

Industrial Engineering Ph.D. Candidate



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Education

University of Arkansas

Ph.D. in Industrial Engineering

M.Sc. in Industrial Engineering

Fayetteville, AR

Expected Fall 2023

Fall 2022

Lehigh University

Gene Golub SIAM Summer School (G2S3)

on Quantum Computing and Optimization

Bethlehem, PA

Summer 2023

Escuela Superior de Economía y Negocios

Post-Graduate Diploma

Quantitative Methods for Business and Economics

La Libertad, El Salvador

Feb. 2015

Business Engineering Bachelor

Magna Cum Laude

Valedictorian

Jan. 2014

Hochschule Furtwangen University

International Engineering

Visiting student

Baden-Württemberg, Germany

Winter 2012

Information Science Expertise

Applications Explored - Systems Reliability, Data Analytics, and Machine Learning.

Programming Languages - Python, R, Java, Scala, \LaTeX , VBA, and Julia

Database Management - Oracle PL/SQL, MongoDB

Machine Learning - SciKit Learn, XGBoost, H2O

Deep Learning - PyTorch, Tensorflow, OpenAI-Gym

Quantum Computing - IBM Qiskit, D-Wave for Quantum Annealing

More details at <https://kvothesfs.github.io/competencies/#information-science>

Professional Experience

Senior Graduate Research Assistant

Jan. 2018 - Present

Department of Industrial Engineering. University of Arkansas. AR

Research activities focused on Computational Methods applied to Systems Reliability. Topics related to Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Statistical Analysis, and Quantum Computing for Optimization.

Business Intelligence Coordinator

Nov. 2015 - Jan. 2018

Termoencogibles S.A. de C.V. La Libertad, El Salvador.

Data and insights support for the B2B sales team. Automation and development of reports to provide insights into market trends and business opportunities. Supporting continuous improvement and measuring the performance of the sales team against budget and goals.

Management Information Systems Coordinator

Apr. 2014 - Oct. 2015

Grupo Editorial Altamirano. San Salvador, El Salvador.

Developing and automating KPI reports for the CFO and CEO. Extracting insights about productivity, efficiency, sales performance, cost analysis, and ROI

More details at https://kvothesfs.github.io/work_experience

Competencies

Interpersonal Communication - Experience doing collaboration in multidisciplinary and diverse teams. Intercultural Communication Skills. Native Spanish speaker, and a beginner German speaker. Empathic Listening.

Insights and Decision Making - Experience translating data analysis to actionable insights for VPs and Directors. Experience adjusting results from research for different stakeholders.

More details at <https://kvothesfs.github.io/competencies>

Publications

Journal and conference proceedings articles on Deep Learning, Systems Reliability, Simulation, and Optimization. Collaborations in multiple projects and a variety of applications.

More details at <https://kvothesfs.github.io/publications>

Teaching Experience

Experience as an independent instructor and as a teaching assistant. Courses related to Economic Analysis, Statistics and Probability, Production Planning, and Statistical Programming. Teaching in English and Spanish to diverse audiences.

More details at <https://kvothesfs.github.io/teaching>

Presentations and Talks

Performed a variety of technical presentations for industry practitioners and academic audiences in specialized conferences.

More details at <https://kvothesfs.github.io/talks>

Awards and Honors

Outstanding Graduate Student 2023 (Apr. 2023). Department of Industrial Engineering

Distinguished Doctoral Fellowship (Jan. 2018 - May. 2022). University of Arkansas

More details at <https://kvothesfs.github.io/awards>