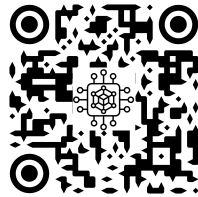


# José Carlos Hernández Azucena, Ph.D.

Industrial Engineering Postdoctoral Fellow



🌐: <https://kvothesfs.github.io>  
✉: [jch051@uark.edu](mailto:jch051@uark.edu)  
☎: 479-304-9333  
🌐: <https://linkedin.com/in/jcha14>  
🐙: <https://github.com/kvothesfs>

## Education

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<b>University of Arkansas</b>	<b>Fayetteville, AR</b>
Ph.D. in Industrial Engineering	Expected Fall 2023
M.Sc. in Industrial Engineering	Fall 2022

<b>Lehigh University</b>	<b>Bethlehem, PA</b>
Gene Golub SIAM Summer School (G2S3)	Summer 2023
on Quantum Computing and Optimization	

<b>Escuela Superior de Economía y Negocios</b>	<b>La Libertad, El Salvador</b>
Post-Graduate Diploma	Feb. 2015
Quantitative Methods for Business and Economics	

Business Engineering Bachelor	Jan. 2014
Magna Cum Laude	
Valedictorian	

<b>Hochschule Furtwangen University</b>	<b>Baden-Württemberg, Germany</b>
International Engineering: Visiting student	Winter 2012

## Information Science Expertise

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

**Programming Languages** - Python, R, Java, Scala,  $\text{\LaTeX}$ , 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

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<b>Senior Graduate Research Assistant</b>	<b>Jan. 2018 - Present</b>
<i>Department of Industrial Engineering. University of Arkansas. AR</i>	

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](https://kvothesfs.github.io/work_experience)

## **Competencies**

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**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**

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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**

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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**

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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**

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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>