

# Enrico Laoh, PhD(cand.)

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## Educations and Certifications

- **Doctor of Philosophy**, *Industrial Engineering and Management*, Oklahoma State University, Expected 07/2025
- **Master of Science**, *Industrial Engineering and Management*, Oklahoma State University, GPA 4.00/4.00
- **Graduate Certificate**, *Business Analytics and Data Science*, Oklahoma State University, GPA 4.00/4.00

**Certifications:** [\*Tableau Desktop Specialist\*](#), [\*Amazon SageMaker Studio\*](#), [\*Amazon Redshift\*](#), [\*AWS MLOps\*](#), [\*Six Sigma Green Belt\*](#), [\*Supply Chain Design\*](#)

## Experiences

### APPLIED MACHINE LEARNING TECHNOLOGY FOR TIME SERIES DATA

JUN - AUG 2025

#### Advanced Demand Forecasting Model for Airline Industry (*United Airlines, Inc.*)

- Observing the pricing model and understanding the effect of demand forecasting for different products.
- Updating the demand forecasting model and testing novel variables extracted from internal databases and external potential influences.
- Successfully reduced the forecasting MAPE by ~2%.

**Skills:** *Databases, SQL, Statistical Learning, Visualization and Storytelling, Business Analytics, Customer Segmentation, Product Analytics, Time Series Analysis*

### HIGH-STAKE DECISION SUPPORT SYSTEM

JAN 2021 - NOW

#### Collaborative AI for a Robust Predictive Model (*Oklahoma State University*)

- Developing machine learning models incorporating trust issues for risk-sensitive decision-making.
- Implementing a collaborative AI approach to increase the performance while validating the prediction.
- Designing a continuous human and AI learning framework.
- Testing the model's robustness over different data sets.
- Funded by NIH under a \$ 1.2M research grant (PI: Dr. Liu, MIT '05)

**Skills:** *Data-driven Decision Making, Data Wrangling, Machine Learning, Incremental Learning, Continuous Learning, Transfer Learning, Time Series Analysis, Bayesian Analysis, Interpretable and Explainable AI*

### ADVANCED STATISTICAL METHODS AND EXPERIMENTAL DESIGN

AUG 2017 - DEC 2020

#### Transformative Big Data Insight for Industrial Advancement (*University of Indonesia*)

- Designed and implemented experimental research on customer segmentation using advanced clustering methods, demonstrating a solid understanding of statistical methodologies.
- Conducted sentiment analysis on tourism-related data, effectively extracting and communicating actionable insights to drive business decisions.
- Utilized data visualization techniques in multiple studies, implying proficiency with dashboarding tools to present complex data clearly.

**Skills:** *Large Language Modelling (LLM), Text Mining, Spatial Analysis, Lifetime Value Analysis, Customer Clustering, Sampling Methods, Design of Experiment*

## Selected Awards

- **Roy and Virginia Dorrough Distinguished Graduate Fellowship**, Oklahoma State University, 2023, 2024, 2025, Awarded to recognize outstanding graduate students with evidence of exceptional academic performance and achievements, leadership experiences, and notable extracurricular or community engagement activity.
- **Lisa Zaken Award for Excellence**, Institute of Industrial and Systems Engineers, 2024, This international annual award, given only to one winner who has outstanding scholastic achievement, leadership, and dedication to the Industrial and Systems Engineering profession, demonstrates the highest of standards.
- **President Leadership Recognition**, Hargis Leadership Institute, 2024, Awarded for demonstrating exemplary leadership and impact within the university and broader community.
- **Outstanding Graduate Student Award**, CEAT, Oklahoma State University, 2024, Selected as the top graduate student in the CEAT based on academic excellence and research achievements.
- **Robberson Dissertation Fellowship**, Oklahoma State University, 2024, Recognized for outstanding doctoral research contributing to advancements in industrial engineering and data science.