

# INSU CHOI, Ph.D.

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## CURRENT POSITION

<b>Assistant Professor, Gachon University</b> Big Data Business Management Major, Department of Finance and Big Data, College of Business	March 2026 – Present
<b>Assistant Professor, Dongduk Women's University</b> Division of Business Administration, College of Business	September 2025 – February 2026

## RESEARCH INTERESTS

Financial Data Science | Business Analytics | Data-Informed Decision Making

## EDUCATION

<b>Ph.D., Industrial and Systems Engineering, KAIST</b> • Dissertation Award: 11th Best Doctoral Dissertation, Korean OR & MS Society • Advisor: Prof. Woo Chang Kim	March 2021 – February 2025
<b>M.S., Industrial and Systems Engineering, KAIST</b> • Thesis Award: 17th Best Master Thesis, Korea Institute of Industrial Engineers	February 2018 – February 2021
<b>B.E., Industrial and Management Systems Engineering, Kyung Hee University</b> • Valedictorian, College of Engineering (GPA: 4.42/4.5)	March 2013 – February 2018

## SELECTED PUBLICATIONS

20+ peer-reviewed journal articles in SSCI/SCIE indexed journals. Selected highlights:

- Knowledge-Based Systems (2024) – ETF price forecasting with xAI [SCIE, Top 13.5%]
- International Review of Financial Analysis (2024) – Risk forecasting for metals [SSCI, Top 2.4%]
- International Review of Economics & Finance (2024) – Information transfer networks [SSCI, Top 9.6%]
- Engineering Applications of Artificial Intelligence (2024) – Deep clustering [SCIE, Top 2.5%]
- Research in International Business and Finance (2023) – Downside risk estimation [SSCI, Top 4.5%]

## SELECTED RESEARCH PROJECTS

<b>Principal Investigator – Portfolio Risk Assessment with Explainable AI</b> Korea Institute of Public Finance	May 2025 – Sep 2025
<b>Project Leader – Foreign Currency Asset Management Impact Analysis</b> Bank of Korea	Nov 2023 – Jul 2024
<b>Project Leader – Financial Data-Driven Market Valuation Model</b> Shinhan Bank	Aug 2021 – Dec 2023
<b>Researcher – AI-Based Anomalous Transaction Detection</b> Korea Exchange	Jul 2021 – Dec 2024

## PROFESSIONAL SERVICE

Reviewer: International Review of Financial Analysis, Finance Research Letters, Knowledge-Based Systems, Machine Learning with Applications, Annals of Operations Research, and 20+ journals

## TEACHING EXPERIENCE

- Algorithmic Trading (DIGB441) – Korea University Sejong Campus (2025–2026)
- Financial Engineering (IE329), Engineering Economics (IE201) – Kyung Hee University (2024)
- Introduction to Financial Engineering, Applied Statistics – Kangnam University (2025–2026)
- Financial Artificial Intelligence (IE471) – KAIST, Teaching Assistant (2022–2024)