

Curriculum Vitae

Myong Jong(MJ) Shin

Indiana University Bloomington

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EDUCATION

Indiana University Bloomington

Doctor of Philosophy in Economics

Bloomington, IN

Aug. 2016 – May 2023

Indiana University Bloomington

Master of Arts in Economics

Bloomington, IN

Aug. 2016 – March 2019

Soongsil University

Bachelor of Arts in Economics

Seoul, South Korea

March. 2010 – February 2016

RESEARCH FIELDS AND INTERESTS

Financial Econometrics, Applied Machine Learning, Big data, Macroeconometrics

WORKING PAPERS

Title: *Empirical investigation on supervised machine learning models predicting firm-level monthly equity risk premium.*

Abstract: Using US monthly data, we re-examine the performance of various supervised machine learning models' performance in forecasting multi-horizon firm-level equity risk premium. Following Gu, Kelly, and Xu (2020) we use a common panel of firm-level US financial ratios and macroeconomic variables and their interaction terms. The big data spans from March 1957 to December 2019. Using tests by Giacomini and White (2006) and Hansen (2005), we compare forecasting models to examine out-of-sample fit. We find that recently popular, but hard to interpret models such as random forest and neural network provides strongest fit. Using test by Li, Liao, and Quaadvlieg (2020) we further the inference by testing for model superiority conditional on a state variable indicative of the state of the US economy during the out-of-sample periods. We observe that the difference among the models become smaller when accounting The results are conditional on the choice of state variables chosen to conditionally evaluate model performances given the state of the economy of US.

TEACHING EXPERIENCE

Associate Instructor

Indiana University Bloomington

- M524 Financial Econometrics(graduate course) Fall 2021
- E370 Statistical Analysis For Business and Economics Fall 2022, Spring 2021, Spring & Fall 2020, Fall 2019
- E344 Health Economics Spring 2019
- E201 Intro to Microeconomics Fall 2018

Teaching assistant

Indiana University Bloomington

- E671 Econometrics 3(graduate course) Spring 2022
- E202 Intro to Macroeconomics Spring 2018
- E201 Intro to Microeconomics Fall 2017

Grading assistant

Indiana University Bloomington

- E202 Intro to Macroeconomics
- E370 Statistical Analysis For Business and Economics

Spring 2017

Fall 2016

PROGRAMMING/DATA EXPERIENCE

Programming: MATLAB, R, STATA, Python(tensorflow, xgboost), C/C++, L^AT_EX
Data: High Performance Computing(Slurm), Bloomberg, Datastream, WRDS

HONORS AND AWARDS

H. Crawford Graduate Top-up Fellowship
Soongsil Scholarship(숭실인재양성장학생)
Indiana University Graduate Assistantship

Fall 2022

Fall 2019, Spring 2020

Fall 2016 – Fall 2022

OTHER INFORMATION

Citizenship : Republic of Korea(F1-visa: STEM certified 3-year OPT)
Language : Korean (native), English (fluent)
Military Service : Aug 2011 – May 2013

REFERENCES

Department of Economics, Indiana University

- Dr. Ke-li Xu (Committee chair)
- Dr. Laura Liu (Committee member)
- Dr. Ruli Xiao (Committee member)
- Dr. Nastassia Krukava (Teaching)

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