

# Curriculum Vitae

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## EDUCATION

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**Indiana University Bloomington**

Bloomington, IN

*Doctor of Philosophy in Economics*

*Aug. 2016 – May 2023(expected)*

**Indiana University Bloomington**

Bloomington, IN

*Master of Arts in Economics*

*Aug. 2016 – March 2019*

**Soongsil University**

Seoul, South Korea

*Bachelor of Arts in Economics*

*March. 2010 – February 2016*

## RESEARCH FIELDS AND INTERESTS

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Financial Econometrics, Applied Machine Learning, Big Data Analysis, Macroeconometrics

## WORKING PAPERS

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**Title: *Empirical investigation on supervised machine learning models predicting equity risk premium(Job Market Paper)***

**Abstract:** We examine the predictive performance of supervised machine learning models in forecasting multi-horizon firm-level equity risk premium. We use an extensive collection of individual firms' financial characteristics and US macroeconomic return predictors for data. We forecast excess returns for (1) all individual firms and (2) each group of firms belonging to the same industry sector in the US. We first show an out-of-sample fit for each forecast model. Second, we forecast and evaluate models pairwise to find ones with superior predictive ability. We also estimate model confidence sets collecting models with superior predictive ability. Finally, we test for a model's conditional superior predictive ability, where a model's predictive ability is determined conditionally on a priori chosen variable indicative of the state of the market.

## TEACHING EXPERIENCE

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### 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 Spring 2017
- E370 Statistical Analysis For Business and Economics Fall 2016

## PROGRAMMING/DATA EXPERIENCE

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Programming: MATLAB, R, STATA, Python(tensorflow, scikit-learn), C, C++, L<sup>A</sup>T<sub>E</sub>X  
Data: High Performance Computing(Slurm), Bloomberg, Datastream, WRDS

## HONORS AND AWARDS

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H. Crawford Graduate Top-up Fellowship	Fall 2022
Soongsil Scholarship	Fall 2019, Spring 2020
Indiana University Graduate Assistantship	Fall 2016 – Fall 2022

## PRESENTATIONS

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2022 KAEA virtual conference	Fall 2022
92nd SEA Annual Meeting (Accepted, Fort Lauderdale, FL)	Fall 2022
Macro Brownbag (Indiana University Bloomington)	Fall 2022
Hoosier Economics Conference (Indiana University Bloomington)	Fall 2020

## OTHER INFORMATION

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Citizenship : Republic of Korea(F1-visa: STEM certified 3-year OPT)  
Language : Korean (native), English (fluent)  
Military Service : Aug 2011 – May 2013  
Year of birth: 1991

## REFERENCES

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*Department of Economics, Indiana University Bloomington*

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

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