

# Curriculum Vitae

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## EDUCATION

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**Indiana University Bloomington**

*Doctor of Philosophy in Economics*

Bloomington, IN

*Aug. 2016 – May 2023(expected)*

**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

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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 performance of supervised machine learning models in forecasting multi-horizon firm-level equity risk premium. US monthly data from Gu, Kelly, and Xiu (2020), a panel of firm-level US financial characteristics and macroeconomic predictors from March 1957 to December 2016 is used. To access performance we first test for equal predictive ability model pairs and check their out-of-sample fit. Second, we compare across all models jointly and find the model with superior predictive ability(SPA). Finally we test for conditional superior predictive ability(CSPA) across models jointly, where a model's CSPA is conditional on a prior chosen state variable. Among the models tested, we find that partial least squares and random forest have SPA and CSPA over other models.

## 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*

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

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