Yu Bai

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Current Position

Research Fellow (Level B, Step 6), Department of Econometrics and Business Statistics, Monash University.

Past Position

Research Fellow, Department of Economics, Bocconi University, January - August 2022.

Education

PhD in Economics and Finance, Bocconi University, 2022.

M.A. in Economics, Huazhong University of Science & Technology, 2016.

B.A. in Management, Shanxi University of Finance and Economics, 2012.

Research Interests

Econometrics; Forecasting; Applied Macroeconomics; Financial Econometrics

Working Papers

- 1. Optimal forecasting under parameter instability, 2023. Job Market Paper [pdf] [Slides] [Link to video presentation]
- 2. Local GMM estimation for nonparametric time-varying coefficient moment condition models, 2023. Submitted [pdf]

Publications

- 1. Mean group instrumental variable estimation of time-varying large heterogeneous panels with endogenous regressors, with G. Kapetanios and M. Marcellino, forthcoming in the Econometrics and Statistics. [link]
- 2. Macroeconomic Forecasting in a Multi-country Context, joint with A. Carriero, T. E. Clark and M. Marcellino, Journal of Applied Econometrics, 37(6), 1230-1255, 2022. [link]
- 3. A Monte Carlo comparison of GMM and QMLE estimators for short dynamic panel data models with spatial errors, joint with Shaofu Zhou and Zhaoyuan Fan, Journal of Statistical Computation and Simulation, 88(2), 376-409, 2018. [link]

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Work in Progress

1. Forecasting with hierarchical factor augmented regression models, with Y. Mao and B. Peng.

2. A stochastic volatility in mean multivariate autoregressive index model, with B. Peng and W. Yao.

Research Grants

2020.9-2022.8. MIUR, "Hi-Di NET. Econometric Analysis of High Dimensional Models with Network Structures in Macroeconomics and Finance".

Research Experiences

Research Assistant for Prof. M. Marcellino, Multiple times

- Provide and check existing Matlab code for large dimensional macroeconomic forecasting models
- Provide Matlab code to estimate proxy VAR models

Teaching Experiences

Instructor:

• Econometrics III, Bocconi University, Spring 2020, 2021, 2022. [link to teaching evaluation]

Teaching assistant:

- Financial Econometrics, Monash University, Autumn 2023. [link to teaching evaluation]
- Econometrics, Bocconi University, Spring 2019, 2020, 2021, 2022.
- Time Series Analysis, Huazhong University of Science & Technology, Spring 2014, 2015.

Professional Services

Referee for: Journal of Time Series Econometrics, Journal of Forecasting, Australian & New Zealand Journal of Statistics.

Conference Presentations

2023

- The TSF2023 Symposium, Sydney, Novermber 20-21 (scheduled)
- 2023 Econometric Society Australasian Meeting, Sydney, August 7-10
- SETA 2023, Singapore, July 7-8
- 2023 IAAE Annual Conference, Oslo, June 27-30

2022

- 7th Continuing Education in Macroeconometrics workshop, Melbourne, November 7-8
- The TSF2022 Symposium, Sydney, December 1-2

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2021 (Virtual)

- CMStatistics 2021, London, December 18-20
- 2021 IAAE Annual Conference, June 22-25
- Dongbei University of Finance and Economics, June 18
- 2021 North American Summer Meeting of the Econometric Society, June 10-13.

2020

- Capital University of Economics and Business, November 6 (Virtual)
- The Econometric Society World Congress, August 17-21 (Virtual)
- Strathclyde Business School, Brown Bag Seminar, January 30.

2019

- 2019 Asian Meeting of the Econometric Society, Xiamen, China, June 14-16.
- 25th International Panel Data Conference, Vilnius, Lithuania, July 4-5.

Honors and Awards

Bocconi PhD fellowship, 2016-2020

References

Massimiliano Marcellino (PhD advisor)

Professor of Econometrics
Department of Economics
Università Bocconi
massimiliano.marcellino@unibocconi.it

Shuping Shi

Professor of Economics Department of Economics Macquarie University shuping.shi@mq.edu.au Bin Peng (Postdoc manager)

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Natalia Bailey (Teaching reference)

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