# Ye Luo

*Curriculum Vitae*

## Professional Experience

2021–present **Associate Professor**, *The University of Hong Kong, Business School*, Hong Kong.

2025–present **Director of AI-Agent Lab of CAMO**, *The University of Hong Kong*, Hong Kong.

2025–present **Honorary Associate Professor**, *University of Queensland*, Brisbane, Australia.

2022–present **Director, Institute of Financial Technology at SZRI**, *The University of Hong Kong, Business School*, Hong Kong.

2022–present **Associate Director, Institute of Digital Economy and Innovations**, *The University of Hong Kong, Business School*, Hong Kong.

2018–2021 **Assistant Professor**, *The University of Hong Kong, Business School*, Hong Kong.

2017–2018 **Affiliated Faculty**, *University of Florida, Center for Big Learning*, Gainesville.

2015–2018 **Assistant Professor**, *University of Florida, Department of Economics*, Gainesville.

## Education

09/2010–06/2015 **Ph.d in Economics**, *Massachusetts Institute of Technology*, Cambridge.
Thesis Title: High Dimensional Econometrics and Model Selection

09/2007–06/2010 **B.S. in Mathematics and Economics**, *Massachusetts Institute of Technology*, Cambridge.

09/2005–07/2007 **Candidate for B.S. in Mathematics**, *Peking University*, Beijing.

## Awards and Grants

[1] "Enhancing Hong Kong's Role in Sustainable Supply Chain Finance via Technology Transformation", T32-615/24, Co-PI, Total Grant of 56M HKD (1.5M HKD entitled), 2024

[2] "Causal Reinforcement Learning in Dynamic Games", PI, SZRI Research Grant, Total Grant of 3M RMB, 2023

[3] "Dynamic Learning Mechanism Design", PI, RGC-NSFC Joint Grant, Total Grant of 1.2M HKD+1M RMB, 2022

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[4] "Statistical Inference on High Dimensional Linear Programming", PI, RGC Grant, Total Grant of 480K HKD, 2021

[5] "Financial Technology, Stability and Inclusion", Co-PI (data science), Theme-Based Research Scheme, Total Grant of 24M HKD (3M HKD entitled), 2020

[6] "Dynamic Pricing Models via Deep Learning", One out of Five Research Proposals Accepted and Sponsored by Didichuxing.com, Total Grant of 100K RMB, 2017

[7] MIT Economics Department Fellowship, 2010-2012

[8] Mingde Fellowship, Peking University, 2005-2007

[9] Gold Medal and 1st Rank with Perfect Score, 45th International Mathematical Olympiad, 2005

[10] Gold Medal and 1st Rank with Perfect Score, 20th Chinese Mathematical Olympiad, 2004

## Publications and Forthcoming Papers

[1] "AI Persuasion, Bayesian Attribution, and Career Concerns of Decision-Makers", 2026, Forthcoming, ***Management Science***, with Hanzhe Li, Jin Li and Xiaowei Zhang

[2] AgentGit: A Version Control Framework for Reliable and Scalable LLM-Powered Multi-Agent Systems, ***AAAI 2026***, with Yang Li, Siqi Ping, Xiyu Chen, Xiaojian Qi, Zigan Wang, and Xiaowei Zhang

[3] Selecting Inequalities for Sharp Identification in Models with Set-Valued Predictions, 2026, Forthcoming, ***Review of Economic Studies***, with Kirill Ponomarev and Hai Wang

[4] "High-Dimensional $L_2$Boosting: Rate of Convergence", 2025, ***Journal of Machine Learning Research***, with Jannis Kueck and Martin Spindler

[5] "Estimation and Inference of Treatment Effects with $\mathrm{L}_2$-Boosting in High-Dimensional Settings", 2023, ***Journal of Econometrics***, with Jannis Kueck, Martin Spindler and Zigan Wang

[6] "Shape-Enforcing Operators for Generic Point and Interval Estimators of Functions", 2021, ***Journal of Machine Learning Research***, with Xi Chen, Victor Chernozhukov, Ivan Fernandez-Val and Scott Kostyshak

[7] "EIV on LHS Variable in Quantitle Regression", 2021, ***Econometrica***, with Jerry Hausman, Haoyang Liu and Christopher Palmer

[8] "SortedEffects: Sorted Causal Effects in R", 2020, ***The R Journal***, with Shuowen Chen, Victor Chernozhukov and Iván Fernández-Val

[9] "Accelerate training of restricted Boltzmann machines via iterative conditional maximum likelihood estimation", 2019, ***Statistics and Its Interface***, with Mingqi Wu and Faming Liang

[10] "A Blockwise Consistency Method for Parameter Estimation of Complex Models", 2019, ***Sankhya B***, with Runmin Shi, Faming Liang, Qifan Song and Malay Gosh

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[11] "An Imputation-Consistency Algorithm for High-Dimensional Missing Data Problems and Beyond", 2018, ***Journal of Royal Statistics Society Series B***, With Faming Liang, Bochao Jia, Jingnan Xue and Qizhai Li

[12] "The Sorted Effect: Discovering Heterogeous Effect Beyond Their Averages", 2018, ***Econometrica***, with Victor Chernozhukov and Ivan Fernandez-Val

[13] "Core Determining Class and Inequality Selection", 2017, ***American Economic Review, papers and proceedings***, with Hai Wang

[14] "L2-Boosting for Economic Applications", 2017, ***American Economic Review, Papers and Proceedings***, with Martin Spindler

## Working Papers

[1] "Causal Reinforcement Learning: An Instrumental Variable Approach", 2026, Revise and Resubmit, ***Journal of Econometrics***, with Jin Li and Xiaowei Zhang

[2] "Selecting Informative Moments via LASSO", 2025, Revise and Resubmit, ***Journal of Econometrics***, with Hanmo Wang and Pu Wang

[3] "Do Entrepreneur Behavior Traits Explain Small Business Credit Outcomes", 2024, Revise and Resubmit, ***Journal of Banking and Finance***, with Chen Lin, Hao Sun and Mingzhu Tai

[4] "Self-fulfilling Bandits: Endogeneity Spillover and Dynamic Selection in Algorithmic Decision-making", with Jin Li and Xiaowei Zhang

[5] AI-based Value Investing: A Hierarchical Multi-Agent Approach with Experiments on A Share Market, Submitted, with Allen He, Mike Ma, Xiangguo Li, Mingyang Zhao and Xiaowei Zhang

[6] "Adaptive Discrete Smoothing", with Xi Chen, Victor Chernozhukov and Martin Spindler

[7] "Textual Analysis on Earning Call QA Sections in American Stock Exchange", with Xu Li

[8] "Complemetary Experimentation", with Jin Li, Xiaowei Zhang and Hanmo Wang

[9] Promotion Opportunities and Production Dynamics, with Jin Li, Michael Powell and Rongzhu Ke

[10] Learning to Compete or Learning to Collude? Emergent Behavior of AI Market Makers, with Jin Li, Yannan Sun and Xiaowei Zhang

[11] Collusive Market Making and Retail Investor Attention, with Jin Li, Yannan Sun and Xiaowei Zhang

[12] Can AI Master Econometrics? Evidence from Econometrics AI Agent on Expert-Level Tasks, with Qiang Chen, Tianyang Han, Jin Li, Yuxiao Wu, Xiaowei Zhang, and Tuo Zhou.

[13] Shrinking-Tube Concentration for Adaptive Markovian Stochastic Approximation, with Jin Li and Xiaowei Zhang

[14] Linear Programming Inference in High Dimensions, with Victor Chernozhukov, Ivan Fernandez-Val and Hao Sun.

[15] Supermodular Enforcing Operator , with Ivan Fernandez-Val and Hao Li.

[16] Agent-UCT: Upper Confidence Bounds Applied to Trees for Agentic Workflow Optimization with Cost-Awareness, submitted to AAAI 2027, Yang Li, hai liu, Dian Shao, Yu wang, Xiyu Chen, Sergey Volkov, Bozhi Wang, Ziyu Sun, Sihang Liu, Ye Luo*, Xiaowei Zhang*

[17] Algorithmic Game with Belief Towers, With Zhonghao Huang

[18] MDP state test and selection, with Xu Hao, Tianyang Han and Zicheng Wang

[19] State Learning in MDP, with Xu Hao, Tianyang Han and Zicheng Wang

[20] Financial High-Frequency World Model with High Frequency, with Yuheng Lei, Yike Wang

[21] StateFuse: Deterministic Conflict-Preserving Memory for Multi-Agent Systems, with Sergey Volkov, Yang Li

## Invited Seminars and Public Talks

### Academic Institutions

09/2025 Conference of Center of AI for Management and Organizations, Shenzhen
05/2025 Workshop of AI and Biotechnology, Shenzhen
12/2024 Workshop of AI and Next Generation Organization, Shenzhen
05/2024 Workshop of AI and Financial Technology, Hong Kong
11/2022 Workshop of Financial Technology and Financial Inclusion, Beijing
10/2021 Workshop of Causal Machine Learning in Economics, Shenzhen
12/2020 Artifically Intelligence Seminar Series, Guanghua School of Management, Peking University
11/2020 Seminar in Big Data and AI methods, Shenzhen Instiute of Big Data
11/2020 Economics Department Seminar, Boston University
10/2020 IEDA Department Seminar, HKUST
04/2019 Seminar in Big Data and AI methods, Shenzhen Institute of Big Data
03/2018 Economics Department Seminar, HKU Business School
03/2018 Statistics Department Seminar, HKUST Business School
01/2017 IOMS Department Seminar, New York University
06/2016 Economics Department Seminar, Chinese University of Hong Kong
09/2015 Statistics Department Seminar, University of Florida
05/2015 Economics Department Seminar, Singapore Management University

### Conferences and Industry Talks

08/2026 Lecture of AI in Financial Applications, China Merchant Bank, HK
07/2026 Lecture of AI in Financial Applications, China Construction Bank, HK
11/2025 Lecture of AI in Financial Applications, Bank of China, HK
09/2025 Lecture of AI in Management and Human Resources, Baidu, Beijing HQ

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| 12/2024 | 1st Annual Econometrics Meeting of the Greater Bay Area, Macau |
| 09/2024 | AI Agent and Its Development, Bank of China, Hong Kong |
| 08/2024 | Keynote Speech, 1st China Conference of Econometrics and Machine Learning,Shandong |
| 10/2023 | Conference in Economics and AI, HangZhou |
| 08/2023 | Keynote Speeach, 8th International Conference of Smart Finance, Dubai |
| 03/2023 | HuaWei AI Lab, Hong Kong |
| 07/2022 | Asian Econometric Society Meeting, Session Chair, Shenzhen |
| 07/2021 | China Econometric Society Meeting, Shanghai |
| 01/2021 | Noah's Ark AI Lab, HuaWei, Shenzhen |
| 07/2019 | Tongdun Financial Technology, Hangzhou |
| 11/2018 | Shunfeng Express, Shenzhen |
| 10/2018 | Novartis APMA meeting, Hong Kong |
| 06/2017 | Asian Econometric Society Meeting, Hong Kong |
| 01/2017 | American Economic Association, Chicago, IL |
| 11/2015 | Informs, Philadelphia, PA |

## Knowledge Exchange Activities

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|---|---|
| 2021-2023 | Causal Reinforcement Learning, Noah's Ark AI Lab, HuaWei, Shenzhen |
| 2019-2020 | Individual credit ceil modelling with life cycle income forecast, China Construction Bank Beijing HQ |
| 2019-2020 | Dynamic risk prediction for small and micro enterprises by hyerachial machine learning, China Construction Bank Beijing HQ |
| 2017-2018 | Identification and correction of product mis-labelling, JD.com Beijing HQ |
| 2016-2017 | Dynamic pricing by double deep learning, Didichuxing.com Beijing HQ |

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