Yucheng Yang

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Academic Positions

University of Zurich *2023-*

Assistant Professor of Finance

Swiss Finance Institute (SFI) *2023-*

Faculty Member

Yale University Department of Economics *Aug-Sep 2024*

Cowles Visitor

NYU Stern School of Business & Department of Economics *Sep-Nov 2023*

Visiting Scholar

Education

Princeton University *2017-2023*

Ph.D. Dissertation: *"Macroeconomics and Heterogeneous Reality with Machine Learning"*

Committee: Gianluca Violante, Weinan E, Christopher Sims, Jonathan Payne

University of Wisconsin-Madison *2015-2017*

M.A. in Economics

Peking University *2011-2015*

B.S. in Statistics, B.A. in Economics

Fields

Primary Macroeconomics, Finance, Machine Learning

Secondary Monetary Economics, Computational Economics, Data Science

Working Papers

1. "Deep Learning for Search and Matching Models." with Jonathan Payne and Adam Rebei. 2024.
2. "Lagrangian Iteration for Private Information Economy." with Felix Kubler, Chengfeng Shen, and Zhennan Zhou. 2024.
3. "Redistributive Inflation and Optimal Monetary Policy." 2022.

   Awards: CICF Yihong Xia Best Paper Award, Gregory C. Chow Best Paper Award.
4. "DeepHAM: A Global Solution Method for Heterogeneous Agent Models with Aggregate Shocks." with Jiequn Han and Weinan E. 2021. Updated in 2024. R&R. *Quantitative Economics*. Replication code

   Coverage: Sargent reading group.

5. "The Knowledge Graph for Macroeconomic Analysis with Alternative Big Data." with Yue Pang, Guanhua Huang and Weinan E. 2020.

   Coverage: Quantpedia.

6. "Networks, Business Cycles, and Asset Pricing" with Wu Zhu. 2020.

Seminar and Conference Presentations (including scheduled)

2025 HEC Lausanne, University of Bern; ES North American Winter Meeting (Invited Session).

2024 Arizona State, Atlanta Fed, CKGSB, EIEF, ETH Zürich, Norges Bank, PKU, PSE, Rice, St Gallen, Tsinghua, Yale {Econometrics, Macro}, Zurich {Econ, Math}; AEA ("Inflation and Inequality" session), Conference on Diversity, Equity and Inclusion in Economics, Finance, and Central Banking (Banco de España), Swiss Winter Conference on Macroeconomics and Finance, T2M, SFI Research Day, Zurich Workshop on the Frontier of Quantitative Macroeconomics, CEF (Invited session), CICM, SED, CESifo Macro Finance Conference (discussant), Conference on Frontiers in Machine Learning and Economics (Philly Fed and Chicago Booth), Frankfurt Workshop on Numerical Methods in Macroeconomics.

2023 Bank of Canada, CUHK {Econ, Finance}, CUNY Baruch College, ETH Zürich, Guelph, HKU, HKUST GZ Fintech, NUS, NYU, PKU {Guanghua, INSE, PHBS}, Rice, Rutgers, SDU, Tsinghua, UNC Chapel Hill, U Houston, Zurich; AEA (discussant, "AI in Economics" session), CES (Oklahoma), Sveriges Riksbank Workshop in Money and Finance, 21st Macro Finance Workshop (Georgia Tech), HKUST/Jinan Macro Workshop, PHBS Sargent Institute Workshop (discussant), CEBRA (Columbia and NY Fed), CICF, Econometric Society DSE Summer School (HEC Lausanne, "Deep Learning for Solving and Estimating Dynamic Models"), EEA-ESEM (UPF), EMAEE (ETH Zürich), 5th Conference on "Nontraditional Data, Machine Learning, and Natural Language Processing for Macroeconomics" (Federal Reserve Board), CESifo Big Data Conference, Minnesota Junior Finance Conference.

2022 Stanford SITE, Princeton, UPenn, PKU, Tsinghua, Federal Reserve Bank of Philadelphia Frontiers in Machine Learning and Economics Conference, Philly Fed Young Scholars Conference on Machine Learning in Economics and Finance, Monash-Warwick-Zurich Text-as-Data Workshop, CICM, NASMES (Miami Herbert), AMES (CUHK Shenzhen), CEA (Carleton), T2M.

pre 2021 Princeton, Banca d'Italia and Federal Reserve Board Conference in Macroeconomics, IWH-CIREQ-GW Macroeconometric Workshop, National Bureau of Statistics of China, 4th International Symposium on New Structural Economics, Her Majesty's Treasury (UK), SoFiE Machine Learning Workshop, RES, ESCoE, AMES (Curtin).

Professional Activities

(Co-)Coordinator Zurich Finance Seminar, Zurich Macro-Finance Seminar, Macro-Finance Reading Group.

(Co-)Organizer Zurich Workshop on the Frontier of Quantitative Macroeconomics: Methods and Models, Swiss Winter Conference on Macroeconomics and Finance, PASC Minisymposium on "Advances of Deep Learning in Economics".

Referee *Econometrica, AER: Insights, Journal of Economic Theory, Journal of Econometrics, European Economic Review, Journal of Economic Dynamics and Control, Journal of Mathematical Economics, Journal of Financial Econometrics.*

Program Committee European Winter Finance Summit (EWFS) 2024, Society for Computational Economics Conference (CEF) 2024.

Department Service UZH Finance PhD Program Committee.

Teaching

Instructor	Torino Deep Learning Summer School (Turin, Summer 2025)
	Advanced Financial Economics (Zurich, Spring 2024)
	Econometric Society DSE Summer School on Deep Learning (HEC Lausanne, Summer 2023)
	Macroeconomic Analysis with Machine Learning & Big Data (Peking, Summer 2019)
TA/Grader	Intermediate Macroeconomics (Princeton, Spring 2021)
	Mathematical Introduction to Machine Learning (Princeton, Fall 2018, Spring 2019)
	Chinese Financial and Monetary Systems (Princeton Master in Finance, Fall 2019 & 2020)
	Introduction to Differential Equations (Princeton, Spring 2020)
	PhD Macroeconomics II (UW-Madison, Spring 2017)
	Master Macroeconomics I (UW-Madison, Spring 2016)
	Master Econometrics I (UW-Madison, Fall 2015)

Selected Honors and Grants

SNSF Grant "Heterogenous Agent Macro-Finance: Models & Methods" (927k CHF, with Kubler)	*2024-2028*
Yihong Xia Best Paper Award, CICF	*2023*
QCGBF Young Economist Prize Runner-up, King's College London	*2023*
Gregory C. Chow Best Paper Award, Chinese Economist Society	*2023*
AFA Travel Grant Award, American Finance Association	*2023*
Philip G. Terrie '39 Fellowship, Princeton University	*2017*
Hui-Chun Chin & Tsung-Dao Lee Scholarship, Peking University	*2013–2015*
CSST Scholarship, UCLA	*2014*
Academic Excellent Award, Peking University	*2013*
CF40-Road King Scholarship, CCER, Peking University	*2012–2015*

Languages

Mandarin (native), English; Python (TensorFlow, PyTorch, JAX), Matlab, R, Stata, LaTeX.

Last updated: September 2024