Likun Tian

Email : l.tian6@lse.ac.uk
Mobile : +44 07922 948691
Website : https://sylviatian.github.io

EDUCATION

London School of Economics and Political Science London, U.K.

MRes/PhD in Economics *Sep 2023 - Present*

MSc in Econometrics and Mathematical Economics *Sep 2020 - Jul 2021*

- Graduated with *Distinction* (first-class honours), awarded to students with average grade above 70%
- Thesis: *Incidence and Welfare Cost of the 2018 Trade War: Heterogeneity By Manufacturing Technological Intensity*

University of Rochester Rochester, NY, U.S.A

Bachelor of Science in Physics *Sep 2013 - May 2017*

Bachelor of Arts in Financial Economics

- GPA: 3.72/4.00
- Graduated with *High Distinction* in Physics, awarded to students with major GPA in the top 10% of the cohort
- Graduated with *Distinction* in Financial Economics
- Cum Laude; Dean's List for 7/8 eligible semesters; Recipient of the Dean's Scholarship

RESEARCH EXPERIENCE

University of Oxford, Economics Department Oxford, U.K.

Previously research assistant, now coauthor with Prof. Niclas Moneke (Oxford) *Nov 2020 - Present*

and Prof. Torsten Figueiredo Walter (NYU Abu Dhabi)

- Analyze geo-spatial, census, and various survey datasets in R to assess the heterogeneous effects of rural electrification on villlage-level usage and socioeconomic outcomes in Zambia using a dynamic diff-in-diff approach
- Evaluate differential effects of rural road construction on economic outcomes in India for regions with varying levels of soil quality by employing a regression discontinuity design

Abu Dhabi Investment Authority (ADIA) London, U.K. *(remote)*

Visiting researcher *Jun 2024 - Present*

- Develop a theoretical model for shipping network congestion under a first-order mean field game framework, with potential extension to include common noise in the future
- Apply proprietary data on ocean dry-bulk shipping contracts to provide empirical support for model simulations

STICERD, LSE Public Economics Group London, U.K.

Pre-doctoral research assistant under the supervision of Prof. Xavier Jaravel (LSE) *Jul 2021 - June 2023*

- Conduct empirical analysis using the U.S. Consumer Expenditure Survey (CEX) data to measure long-run growth of real consumption and correct for bias under preference nonhomotheticity
- Compose data appendix and proofread drafts of working paper
- Explore the magnitude of price and quantity pass-through of the 2020 German value-added tax (VAT) cut in response to Covid-19 using proprietary scanner data collected from multiple EU countries

International Growth Center (IGC) London, U.K.

Research assistant *Dec 2020 - Apr 2021*

- Cleaned and analyzed firm-level employment and productivity datasets collected through the World Bank Enterprise Survey to study the various channels through which small and medium enterprises (SME) impact the aggregate economy and labor outcomes in developing countries over the past decade

University of Rochester, Physics and Astronomy Department Rochester, NY, U.S.A.

Research assistant under the supervision of Prof. Adam Frank *Sep 2015 - Dec 2015*

- Performed analysis and visualization in Fortran on simulated data to study the energy distribution of various turbulence systems and explore implications prior to replicating the models in real-world laboratory

Relevant Coursework

Economics & Econometrics:
Econometric analysis (general asymptotic theory; Lindeberg-Feller CLT; generalized linear processes; GMM; quantile and non-linear regression; limited dependent variables; bootstrap); ***Advanced microeconomics*** (choice theory; consumer theory; static Bertrand and Cournot competition; dynamic games and bargaining games; auction theory); ***Advanced macroeconomics*** (neoclassical growth model; dynamic optimization and transition dynamic; heterogenous agent models; RBC and New Keynesian DSGE models, endogenous growth); ***Public economics*** (Optimal taxation; UI design; health economics; social security design and empiric; inequality and mobility); ***Contract theory***; ***Game theory***

Mathematics & Physics:
Fourier series and boundary value problems; ***Complex analysis***; ***Multivariate calculus***; ***Linear algebra***; ***Physics and finance*** (derivation of the Black-Scholes equation using statistical physics models and non-Gaussian Levy processes); ***Classical mechanics*** (variational calculus and optimization theory); ***Thermodynamics and statistical mechanics*** (probability theory and distribution functions); ***Quantum theory*** (Hermitian operators; perturbation theory; conservation theorems; operations in abstract vector space; order theory)

Teaching Experience

University of Rochester, Mechanical Engineering Department   Rochester, NY, U.S.A.
Teaching Assistant for ME 201/MTH 281 Fourier Analysis   *Sep 2015 - Dec 2016*

- Worked for multiple semesters as teaching assistant for *Introduction to Fourier Series, Orthogonal Polynomials and Boundary Value Problems* (cross-listed in Mathematics department)

Professional Experience

Edgeworth Economics   Washington, DC, U.S.A.
Senior Economic Consultant   *Oct 2018 - Jul 2020*
Economic Consultant   *Jul 2017 - Sep 2018*

- Analyzed large and complex economic, financial and employment data using statistical programming languages and econometric models to be incorporated into expert reports and other client deliverables
- Evaluated and critiqued opposing economic experts' analyses using various regression models as well as targeted research on market and industry behaviours

Locus Analytics   New York, NY, U.S.A.
Research & Product Development Summer Analyst   *Jun 2016 - Aug 2016*

- Conducted extensive research to create risk-stratified investment portfolios and smart-beta index fund products for institutional investors based on proprietary algorithms

Programming Skills

Programming Languages:
Python (experienced), ***C/C++*** (some experience), ***Fortran*** (some experience)

Statistical Languages:
R (highly experienced), ***Stata*** (highly experienced), ***MATLAB*** (experienced), ***SAS*** (experienced), ***SQL*** (some experience)

Other Languages/Tools:
QGIS (experienced), ***Bloomberg*** (some experience), ***Tableau*** (some experience)

Language Skills & Extracurricular

Language: English (proficient), Mandarin (native), German (beginner to intermediate)

Extracurricular: Piano, Ballet, Boxing, Swimming