

Harry Li

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EDUCATION

Imperial College London <i>M.Sc. in Applied Mathematics; Distinction; 85%</i>	London, United Kingdom <i>Oct 2021 – Oct 2023, Part-time</i>
The London School of Economics and Political Science <i>M.Sc. in Econometrics and Mathematical Economics; Distinction; 83%</i>	London, United Kingdom <i>Sep 2019 – June 2020</i>
The London School of Economics and Political Science <i>B.Sc. in Economics; Distinction</i>	London, United Kingdom <i>Sep 2016 – June 2019</i>

WORK EXPERIENCE

Bank of England <i>Lead Economic Analyst, Monetary Analysis, Macro Modelling Division</i>	London, United Kingdom <i>May 2025 – Present</i>
<ul style="list-style-type: none">• Author of the Bank's Macro Technical Paper: "Learning from forecast errors: the Bank's enhanced approach to forecast evaluation". The paper supports the Bank's Forecast Evaluation Report by providing technical details on the newly developed forecast evaluation toolkit and the methods used to evaluate the forecasts.• Lead developer of the forecast evaluation toolkit – an open source Python package for assessing the forecasting performance of macroeconomic forecasts. The toolkit includes a range of forecast evaluation metrics, including accuracy, biasedness and efficiency. The toolkit is used by the Bank's economists to evaluate the forecasts produced by the Bank's macroeconomic models and from the Monetary Policy Committee.• Developing the Bank's new semi-structural model, which will be the main model used for policy analysis and forecasting. I am responsible for economic modelling and implementing good practices in the code base.	
Bank of England <i>Lead Policy Analyst, Financial Stability Strategy & Risk, Stress Testing Division</i>	London, United Kingdom <i>Jan 2023 – Apr 2025</i>
<ul style="list-style-type: none">• Developed a new Net Interest Income (NII) model for the 2024 Desk-Based Stress Test. The model uses granular data on banks' assets and liabilities to model the impact of interest rate changes on banks' NII. Collaborated with financial risk specialists to improve the methodology and calibrate model parameters.• Developed models in R to model bank's capital and leverage ratios. The team used my models to model the impact on UK bank's capital and leverage ratios for the 2023 Global Stress Test as well as for general risk assessment.	
Bank of England <i>Policy Analyst, Financial Stability Strategy & Risk, Macro-financial Risk Division</i>	London, United Kingdom <i>Sep 2020 – Dec 2022</i>
<ul style="list-style-type: none">• Automated the analysis of household survey data for risk assessment for the Financial Policy Committee, using R.• Wrote the Bank's stress-test model used to assess the impact of macroeconomic scenarios on UK bank's mortgage portfolios. Worked with the Product Sales Database, a large loan-level dataset of UK mortgages. Used SQL to clean the data, R to build the model and git to version control the code base.	

RESEARCH

Stochastic Differential Equation Models for Systemic Risk <i>Master's thesis, supervised by Prof. Grigorios A. Pavliotis and Dr. Anastasia Borovykh</i>	Imperial College London <i>Sep 2023</i>
<ul style="list-style-type: none">• We use continuous-time coupled stochastic diffusion models to model the interbank market for liquid reserves. We incorporate interbank network structures and study the collective behaviour of banks and systemic risk.• Developed deep learning methods to solve coupled Stochastic Differential Equations.• Awarded the Excellent MSc in Applied Mathematics Project (90%) for my Master's thesis.	

LANGUAGES & IT SKILLS

Languages: English (native), Mandarin (limited working proficiency)
Programming Languages: R, Python, MATLAB, L^AT_EX, Git, SQL

HOBBIES

Chess: Peak FIDE rating of 2247 (was ranked top 100 in England). I regularly compete in chess tournaments.
Piano: Passed ABRSM Grade 7 with distinction.