

Summary

- Quant researcher with 13+ years of experience across sovereign wealth funds (GIC, ADIA), international financial institutions (IMF, ECB), and global macro portfolio managers teams.
 - Focus on rates and FX mostly, signal and portfolio construction, risk models.
 - Skills: machine learning, time series & density models, generative AI, convex optimization, Python

Professional Experience

GIC Lead Quant Strategist, Global Macro	Singapore, since 2023
<ul style="list-style-type: none">• Senior vice-president, focus on DM/EM rates, FX, and cross-asset portfolios.• Develop and deploy quant models for alpha generation, portfolio construction and risk modeling.• Research: technical, fundamental, valuation and flows signals, synthetic data generation via generative AI, macro nowcasting with high-frequency alternative data, FX and curve models, macro regimes, etc.	
ADIA Quant Researcher, Global Macro	Abu Dhabi, 2022-2023
<ul style="list-style-type: none">• Developed systematic macro signals and models for the Quant team ("Q") covering forecasting, nowcasting, and risk management. Supported ADIA CIO on asset allocation and portfolio construction.	
International Monetary Fund Quant Macroeconomist	Washington DC, 2016-2022
<ul style="list-style-type: none">• Quant macroeconomist, involved in more than 30 country missions covering IMF program negotiations, Article IV, FSAP, technical assistance (including as mission chief), etc.	
European Central Bank Quant Researcher and Portfolio Manager	Frankfurt, 2013-2016
<ul style="list-style-type: none">• Managed Eurosystem RMB and JPY FX reserves, portfolio construction and financial research.	

Education

Ph.D. Quantitative Macro & Finance , Peking University & EHESS	Beijing 2013
<i>Entire curriculum completed in Chinese Mandarin in Beijing.</i>	
M.Sc. Quantitative Macro & Finance , Ecole Normale Supérieure de Paris-Saclay	Paris 2009
<i>First-ranked at France's national entrance exam (Normalien).</i>	
M.Sc. Mathematics and Statistics , ENSAE Paris	Paris 2007
Undergrad (CPGE) Henri IV	Paris 2005

Skills

- **Languages:** Chinese Mandarin (fluent), English (fluent), French (native)
- **Programming:** Python (CI/CD, packaging, deployment), SQL, R, Git, AWS
- **Databases:** Bloomberg, Macrobond, Haver, CEIC, Wind, etc.

Open Source Python Packages

- Distributional GARCH model to design VaR-based FX Interventions for Central Banks, [varfxi repo](#)
- Density Forecasting for Macro Variables, [gar repo](#)
- Conditional Density Projection via Quantile Regressions, Resampling and Multifit Models, [quantproj repo](#)
- Robust Density Estimation via Over-Parametrized Gaussian Skewed Models, [robustdensity repo](#)
- Partial Least Squares Wrapper for Data Reduction based on Scikit, [plswrapper repo](#)
- Quantile Spacing - solving for quantile crossing, from Schmidt and Zhu (2016), [quantilespacing repo](#)
- Quantile Local Projections, [quantileproj repo](#)
- Granular Instrumental Variables - from Gabaix and Kojen (2020), [granulariv repo](#)
- Cluster Analysis Wrapper with Performance Metrics and Visualization Tools, [clusterwrapper repo](#)

Academic Research

- *Financial Conditions in Europe: Dynamics, Drivers, and Macroeconomic Implications*, IMF WP (2024)
- *Technology and the Geography of FX Markets*, Journal of International Money and Finance (2023)
- *FX Interventions: A Risk-Based Framework*, IMF WP (2020)
- *Predictive Density for Global Growth*, IMF WP (2020)
- *Growth at Risk: Applications in IMF Surveillance*, IMF WP (2019)
- *Can Countries Manage Their Financial Conditions Amid Globalization?*, IMF WP (2018)
- *Trading Without a View: Fast Trading, Entropy and Underreaction in the FX Market*, ECB WP (2018)
- *Thick vs. Thin-Skinned: Technology, News, and Financial Market Reaction*, IMF WP (2016)
- *Household Savings in China : The Role of the Housing Market and Borrowing Constraints*, BdF WP (2014)