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Updated: October 2025

Summary

- Senior portfolio strategist and quant researcher with 12+ years of experience across leading global institutions (GIC, ADIA, IMF, ECB).
- Specialized in portfolio construction, systematic asset allocation, and macro trading strategies.
- Proven track record in integrating quantitative research with discretionary judgment to generate alpha and manage multi-asset portfolios.

Professional Experience

GIC Lead Strategist, Senior Vice-President, Asset Allocation and Global Macro — Singapore, since 2023

- Develop and deploy quant models for asset allocation, portfolio construction and risk management.
  - Contributed to >100 bn AUM portfolio construction across GIC fixed income and multi-assets books.
  - Implementation of overlays and hedging solutions, increased diversification and drawdown control
- Manage a team of 5 quants covering DM/EM rates, FX, commodities and portfolio construction.

ADIA Quant Researcher, Asset Allocation and Global Macro — Abu Dhabi, 2022-2023

- Developed and backtested systematic macro signals for fixed income and cross-asset strategies, directly informing ADIA CIO's strategic and tactical allocation calls.
- Quant signals on rates, FX and commodities strategies.

International Monetary Fund Macroeconomist — Washington DC, 2016-2022

- International macroeconomist, led macro modeling and forecasting missions for >30 economies, shaping policy and investment frameworks for central banks

European Central Bank Portfolio Manager and Market Operations Expert — Frankfurt, 2013-2016

- DG Market Operations, FX reserves management and ECB QE implementation.

Education

Ph.D. Quantitative Macro & Finance, Peking University & EHESS — Beijing 2013

Entire curriculum completed in Chinese Mandarin in Beijing.

M.Sc. Quantitative Macro & Finance, Ecole Normale Supérieure de Paris-Saclay — Paris 2009

First-ranked at France's national entrance exam (Normalien).

M.Sc. Mathematics and Statistics, ENSAE Paris — Paris 2007

Undergrad (CPGE) Henri IV — Paris 2005

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 Koijen (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)

Policy Publications

- *United Arab Emirates: TA Report - Liquidity Management and Forecasting*: IMF TA report (2022)
- *Jordan: TA Report - Forecasting Framework for Currency in Circulation*: IMF TA Report (2022)
- *House Price Synchronization: What Role for Financial Factors?*: IMF GFSR (2018)
- *Financial Conditions and Growth at Risk*: IMF GFSR (2017)
- *High-Frequency Trading, Information and Market Volatility: the Role of Dark Pools*: ECB FSR (2017)
- *The Role of Currency Invoicing for the Transmission of Exchange Rate Movements*: ECB IRE (2015)

Skills

- **Languages:** Chinese Mandarin (conversational), English (fluent), French (native)
- **Analytics:** Optimization, statistical simulation and inference, machine learning and LLM
- **Programming:** Python (quant libraries, CI/CD, AWS deployment), SQL, R
- **Data:** Standard (Bloomberg, Macrobond, Wind, etc.) and alternative data

IMF Country Missions

I have been sent to more than 30 countries to contribute to IMF program negotiations, Article IV, FSAP, technical assistance missions, etc.

- **Mauritania**: monetary operations (2023)
- **Bosnia**: FX management (mission chief, 2022)
- **Burundi**: monetary operations (2022)
- **Algeria**: monetary operations (mission chief, 2022)
- **United Arab Emirates**: monetary operations (co-mission chief, 2021)
- **Namibia**: liquidity forecasting (mission chief, 2021)
- **Jordan**: liquidity forecasting (mission chief, 2021)
- **Djibouti**: liquidity forecasting (mission chief, 2021)
- **Hong Kong SAR**: FSAP, systemic liquidity and stress-testing (2021)
- **WAEMU**: FSAP, stress-testing (2021)
- **D.R Congo**: IMF program negotiations (2020)
- **Tunisia**: liquidity forecasting (2020)
- **South Korea**: FX reserves management (2020)
- **Morocco**: FX interventions (2020)
- **P.R China**: Risk modeling (mission chief, 2019)
- **India**: Financial modeling (2019)
- **Philippines**: Financial modeling (2019)
- **Malaysia**: Financial modeling (2019)
- **Singapore**: Financial modeling (2019)
- **Israel**: IMF Article IV, external sector (2019)
- **Albania**: IMF Article IV and post-program (2018, 2019)
- **Peru**: FSAP, systemic liquidity and stress-testing (2017, 2018)
- **PR China**: ECB negotiations, RMB Eurosystem portfolio (2015)

Teaching

I taught financial modeling and financial operations to countries officials and central bankers around the world, often via IMF technical assistance centers.

- **Singapore**: FX Intervention Rules (2023)
- **Singapore**: liquidity forecasting (2022)
- **Ghana**: liquidity forecasting (2022)
- **Kuwait**: liquidity forecasting (2021, 2022)
- **Slovenia**: liquidity forecasting (2022)
- **IMF Washington DC**: density modeling (2021)
- **Kazakhstan**: liquidity forecasting (2021)
- **Guatemala**: liquidity forecasting (2021)
- **Austria**: density modeling (2021)
- **Malaysia**: density modeling (2020)
- **IMF Washington DC**: Python (2019)
- **Sciences Po and ENSAE Paris**: Econometrics and macroeconomics (2010-2012)