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Summary

- Lead quant researcher with 13+ years experience, specialized on rates, FX and credit
- Mid-freq fundamental macro, flows and sentiment signals; signal aggregation and portfolio construction
- Models: time series, ML, gen AI, optimization, factors and risk models
- Development: signal productionalization, CI/CD, cloud computing, portfolio analytics, etc.

Professional Experience

GIC Lead Quant Researcher, Global Macro — Singapore, since 2023

- Senior vice-president, focus on DM/EM rates, credit, FX, and multi-asset books
- Mid-freq fundamental macro, flows and sentiment signals; signal aggregation and portfolio construction
- Research topics: FX and curve models, flows & valuations, high-freq alternative data, AI synthetic data
- Quant prod: Github CI/CD, cloud platform (Databricks & AWS), Airflow schedulers

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

- Systematic macro signals and strategies (rates, FX, commods) for ADIA quant team ("Q")
- Portfolio construction and asset allocation models for discretionary PMs and ADIA CIO

International Monetary Fund Quant Macroeconomist — Washington DC, 2016-2022

- Large EM coverage (China, India, Korea, Malaysia, Israel, Peru, etc.) with more than 30 countries missions

European Central Bank Quant Researcher and Portfolio Manager — Frankfurt, 2013-2016

- Managed Eurosystem RMB and JPY FX reserves, portfolio construction and risk models

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

Skills

- **Languages:** Chinese Mandarin (fluent), English (fluent), French (native)
- **Programming:** Python (CI/CD, packaging, deployment), SQL, R, Git, AWS, Databricks
- **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 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)