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<https://romainlafarguette.github.io/>

## Summary

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- Lead quant researcher with 13+ years experience, focus on rates, FX, commodities and credit
- Mid-frequency 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

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

- Senior vice-president, focus on DM/EM rates, credit, FX, commodities and multi-asset books
- Mid-frequency 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), DAG orchestration, SQL & Polars

**ADIA** Senior Quant Researcher, Global Macro Abu Dhabi, 2022-2023

- Systematic macro signals and strategies (rates, FX, commodities) 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

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**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, top 1% of national applicants)*

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

**Undergrad (CPGE)** Henri IV Paris 2005

## Skills

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- **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

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- 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), [quantilespace 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

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- *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)