

Resume

M. O.

As of June 2025

Work Summary

Period	Role / Responsibility
Apr 2014 – Mar 2015	Researcher, Institute for Solid State Physics (ISSP), The University of Tokyo (LASOR Center)
Apr 2015 – Mar 2018	JSPS Research Fellow (DC1) @ The University of Tokyo, Graduate School
Apr 2018 – May 2019	Middle Office Quant System Developer, Consulting Firm
Jun 2019 – Feb 2024	Equity Derivatives Quant, Major Securities Firm
Mar 2024 – Present	eFX (Electronic Foreign Exchange) Quant Manager, Megabank
Jun 2022 – Present	Founder, Quant Marketing Lab (Overseeing DX & Marketing Infrastructure for Recruiting Tech)

Technical Summary

- **Programming Languages:** Python (Pandas, NumPy, scikit-learn), Java, SQL, VBA, shell script
- **Platforms & Tools:** Tableau, Looker Studio, Git, JIRA, Docker
- **Cloud:** AWS (EC2, Lambda, Batch, S3), Google API (Gmail, Calendar, Gemini API), OpenAI API
- **Databases:** Microsoft SQL Server, PostgreSQL, kdb+ q database
- **Financial Engineering & ML:** Monte Carlo Simulation, Black-Scholes Model (and derivatives), SVM, Clustering Analysis

Professional Experience (Summary)

- **Mar 2024 – Present: Megabank**
 - eFX (Electronic Foreign Exchange) Quant Manager
 - Responsibilities: Overseeing pricing, sales support, and process automation (AWS, Docker, OpenAI API)
- **Jun 2022 – Present: Quant Marketing Lab**
 - Founder (Sole Proprietor)
 - Responsibilities: Building DX/quantitative analysis platforms for the recruiting industry (AWS, Google API, AI), supporting business growth.
- **Jun 2019 – Feb 2024: Major Securities Firm**

- Equity Derivatives Quant
- Responsibilities: Automation of structured products & cover trading, TRS automation, new product development (PVF).
- **Apr 2018 – May 2019: Consulting Firm**
 - Middle Office Quant System Developer
 - Responsibilities: FRTB regulatory system implementation, test automation.
- **Apr 2015 – Mar 2018: The University of Tokyo**
 - JSPS Research Fellow (DC1)
 - Achievement: 4 peer-reviewed international journal publications (incl. first author).
- **Apr 2014 – Mar 2015: The University of Tokyo, ISSP**
 - Researcher (LASOR Center)
 - Responsibilities: Femtosecond time-resolved photoemission spectroscopy experiments, numerical simulation.

Certifications & Qualifications

Date	Certification / License
May 2008	Driver's License
Apr 2010	Mathematics Certification (Grade 1)
Feb 2012	Heavy Motorcycle License
Jul 2015	National Civil Service Examination (Comprehensive Category), Passed (Registered on candidate list)
Jul 2016	Ibid. (Passed again, list updated)
Apr 2018	IT Passport (As part of new graduate training)
Apr 2018	TOEIC 765 (As part of new graduate training)
May 2019	JSDA Class 1 Sales Representative
Jul 2019	JSDA Internal Control Manager
Jan 2020	Deep Learning G Certification (Generalist)
Oct 2021	Business Law Examination (Grade 3)
Feb 2022	Business Accounting Examination (Grade 3)
Oct 2022	Financial Planner (Grade 3)
Feb 2023	Marketing Examination (Grade 3)
Apr 2024	NFA Swaps Proficiency Requirements (Long Track)

Education

- **Graduate School**, MBA (in progress)
- **The University of Tokyo, Graduate School of Frontier Sciences**, Ph.D. Program, Department of Materials Science (JSPS Research Fellow DC1)
- **The University of Tokyo, Graduate School of Frontier Sciences**, M.S., Department of Materials Science
- **UCLA Anderson School of Management** (Financial Engineering MBA Course, Trainee Representative)