

Ryan Yuen

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Education

Waseda University - Master of Science (Applied Mathematics) Apr 2025 - Mar 2028 (expected)

- **GPA:** 4.0/4.0, MEXT Scholarship recipient
- **Research interests:** time series analysis, graph theory, machine learning, Bayesian networks
- The Bridge Hackathon 2025 - project lead and merit prize recipient
- Microsoft Excel Collegiate Challenge - individuals finalist (2025), 3rd place (February 2026)
- Microsoft Excel World Cup 2026 - 36th place (February 2026)
- Guest speaker at OpenAI's ChatGPT Lab for Students

Curtin University - Bachelor of Science (Actuarial Science) Mar 2022 - Nov 2024

- **CWA:** 87.79, **GPA:** 3.96/4.0
- **Coursework:** Statistical modelling, financial engineering, quantitative finance
- Curtin Excellence Scholarship and Summer Vacation Scholarship recipient
- Gained exemptions from all IFoA Foundation Program (Part 1) exams

Willetton Senior High School Feb 2015 - Nov 2021

- ATAR: 99.35 (top 0.65% of students nationally)
- Achieved high distinctions in various mathematics competitions (AMC, ICAS, WA Mathematics Olympiad)

Experience

Bosch Yokohama, Japan

Cross-Domain Computing Solutions Intern Mar 2026 - Aug 2026 (expected)

- Analysed vehicle production and sales datasets to identify trends and provide insights supporting strategic planning and operational decisions
- Monitored daily industry and macroeconomic news to contextualise automotive market developments and inform internal discussions on business outlook

Macquarie Sydney, Australia

Market Risk Intern Dec 2024 - Jan 2025

- Managed daily Value-at-Risk reports, collaborating with analysts to identify and fix spurious positions and data anomalies within databases
- Built ETL data transformation and validation pipelines using Apache Spark and SQL to process Monte Carlo simulation outputs and support model backtesting
- Optimized Python-based financial models through improved statistical validation and data processing techniques, increasing the accuracy and consistency of risk calculations

Department of Communities Perth, Australia

Financial Analysis Data Support Officer Apr 2024 - Nov 2024

- Developed and maintained financial lease models for monthly reports, abiding by AASB16 standards
- Performed reconciliation and identified errors within financial systems during transition from AX12 to D365
- Created and updated dashboards using SQL, PowerBI and Power Query for financial reporting

Curtin University Perth, Australia

Research Intern Oct 2023 - Mar 2024

- Conducted research about "New digital finance techniques for cryptocurrency markets: portfolio allocation optimisation and planning"
- Successfully implemented an LSTM deep learning model in Tensorflow to create optimal portfolios of cryptocurrencies and stocks and conducted risk analysis

EY Perth, Australia

Data and Analytics Consultant Intern Jun 2023 - Jul 2023

- Identified areas of risk in a healthcare patient dataset using Excel/SQL and presented findings in a Power BI

dashboard

- Developed methods of optimisation for a multinational mining client based on past projects

Leadership

Waseda Economics and Finance Forum

Sep 2025 - Present

Investment Team and Trading Team Member

- Built and maintained spreadsheets for equity tracking and portfolio monitoring
- Delivered weekly stock pitches and global market updates
- Hosted workshops introducing advanced Excel techniques and derivatives concepts

Google Developer Groups on Campus Waseda University

Apr 2025 - Present

Finance Team Lead

- Leading a team of 6 responsible for sponsorship outreach and partner engagement
- Negotiated with external sponsors to secure funding and in-kind support for student events
- Managed budgets and coordinated event planning for workshops and hackathons

Australia-Japan Community Volunteer

Aug 2022 - Present

- **Curtin Volunteers!** - helped exchange students become more confident in conversational English, engaged in cultural exchange and helped them settle into life in Perth
- **Event Management Volunteer** - supported venue operations, event setup, stakeholder coordination, and guest engagement across events including Perth Japan Festival, Impact Tokyo Hackathon, TEDxIU, Takeoff Tokyo, Tech4Impact Summit and Sushi Tech
- **Waseda University Intercultural Communication Center** - engaged in cultural exchange and supported conversational English practice with learners from diverse backgrounds

Projects

Konekto - Student Community Platform for Japan

- Built a full-stack student community platform for university students in Japan, enabling discovery and management of clubs, events, internships, and resources
- Developed authentication and onboarding systems with email/password login, Google OAuth, email verification, and profile setup flows
- Designed and implemented a Supabase/PostgreSQL backend with relational schemas, storage integration, and role-based access control
- Tech: React, TypeScript, TanStack Router, Supabase, PostgreSQL, Tailwind CSS, shadcn/ui, Vercel

WEFF VaR Model

- Engineered quantitative finance models for a student-managed investment fund, including Monte Carlo-based Value-at-Risk (VaR) estimation and volatility forecasting with GARCH(1,1)
- Simulated stochastic asset price paths using Geometric Brownian Motion (GBM) to analyze portfolio risk exposure and returns
- Developed stock tracking and portfolio analytics tools for investment monitoring and performance evaluation

Default Probability Logistic Regression Analysis

- Developed a Logistic Regression model with L1 and L2 regularisation to predict the likelihood of default on loans based on demographic and financial factors, including salary, education level, and credit score.
- Applied K-means clustering to segment customers into distinct risk profiles

Skills and Interests

Coding: Python (proficiency with Pandas, Tensorflow), R, HTML/CSS/JS, React, SQL, Power BI

Languages: Native English, business fluency in Japanese, passed JLPT N1

Interests: Technology, English Premier League, calisthenics, stock market, machine learning

Other: Completed course on Machine Learning Specialisation, participant in Amazon's Machine Learning Summer School