Renyi Qu

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Education

Keio University **Economics (PEARL program)** **Bachelor** 2018/09 – 2022/08

- GPA: 3.97/4.0 (top 1 in class)
- Awards: Goldman Sachs Scholars Fund (2019) (10 people only), Keio University Scholarship (2019, 2020), Yamaoka Kenichi Memorial Scholarship (2020) (10 people only), JASSO Honors Scholarship (2018)

Tampere University of Technology **Mathematics & IT** **Bachelor** 2017/08 – 2018/05

- GPA: 4.89/5.0 (top 1 in class)
- Awards: Academic Excellence Award (2017) (1 person only)

Research Experiences

Bayesian Reinforcement Learning for Stock Return Forecasting / Portfolio Management 2021/04 – 2021/11

- Independent research project supervised by Prof. Teruo Nakatsuma (Dean of Graduate School of Economics of Keio University)

Hoarding Behavior and Emotional Contagion Analysis based on Twitter Data 2021/03 – 2021/04

- Co-author for Peter Romero (People Analytics Lead from University of Cambridge)
- Major contributions: mathematical method and programming, natural language processing with IBM Watson

Modeling Mass Psychometric Effects with Bayesian Analyses of Regime Shifts in Finite Discrete Distributions 2021/03

- Co-author for Peter Romero (People Analytics Lead from University of Cambridge) (waiting for publication)
- Major contributions: mathematical method and programming

Application of ARIMA-GARCH Model for TOPIX Forecasting 2020/10 – 2021/01

- Independent research project supervised by Prof. Yoann Potiron (PhD Statistics from University of Chicago)

Work Experiences

Data Engineer **Nippon Institute for Research Advancement** **Remote** 2021/03 – 2021/04

- I created an algorithm that identifies the abnormalities in survey data and converts them into correctly labeled categories. This algorithm provided Prof. Toshihiro Okubo with optimized dataset.

Fintech Intern **Safran Group [Fortune 500]** **Suzhou, China** 2020/12 – 2021/02

- I finished 14 RPA (Robotic Process Automation) projects on my own in the Financial Shared Service Center in 2 months with Python and UiPath, which saved 85 labor hours per month. Major contributions include automating repetitive corporate finance operations such as Excel/csv, Outlook, pdf processing, web operations, system operations, and database operations.

Data Engineer Intern **FLUX Inc. [Forbes 30 Under 30 Asia]** **Tokyo, Japan** 2019/04 – 2019/11

- I helped develop the core BI (Business Intelligence) product of the company based on back-end advertisement data in a team with Python. Major contributions include a scraping tool that can scrape essential Google ads data from any website, automation of data scraping & processing parts for 6 vendors, assistance in the implementation of automatic database interaction part with MongoDB. All tools were implemented successfully and were still in use after I left.

Machine Learning Engineer Intern **OptoFidelity Oy.** **Tampere, Finland** 2017/10 – 2018/05

- I helped develop an AI pricing tool for used phones with digital screen defects in a team with Python. Major contributions include segment annotation for image data collection, improvement of Python annotation tool code, assistance in the implementation of object detection algorithm. Before completion, the company terminated the project for financial reasons.

Contests

○ 2021 Econometric Game	Ongoing	Team of 4
○ 2020 Nissan Automobile Image Classification Contest	Top 2	Individual
○ 2020 Otsuka Pharmaceutical Time Series Prediction Contest	Top 3	Team of 5
○ 57th IMO (International Mathematical Olympiad)	4/6 correct answers	Individual

Skills

- **Programming** (descending proficiency order): **Python**, **R**, IBM Watson, C++, Ruby, html/css, JavaScript, Matlab
- **Language**: Chinese (native), English (TOEFL 113), Japanese (JLPT N3)