

# YITONG WU

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Personal Website: <https://rosewuyitong.github.io/>

## EDUCATION

- MSc Financial Technology, Nanyang Technology University, Singapore** Jul 2021-Jul 2022
- Cumulative GPA: 4.20/5
  - Core Modules: Machine Learning, Deep Learning, Natural Language Processing, Blockchain Systems
- BSc Mathematics with Economics, University College London, United Kingdom** Sep 2017-Jun 2020
- Qualification Awarded: Upper Second-Class Honours
  - Core Modules: Linear Algebra, Analysis, Mathematical Methods, Financial Economics, Probability and Statistics, Economics

## WORK EXPERIENCE

- Research Assistant, National University of Singapore, Singapore** Dec 2023-Present
- Working closely with supervisor to comprehend and interpret the paper on 'Applications Of Catalytic Prior Distributions In Bayesian Inference.'
  - Implementing the functions in R based on the methodology, ensuring clarity and user-friendliness for future researchers applying the catalytic prior method.
  - Engaging in a collective effort to improve the functionality and applicability of the implemented methods, considering the perspectives of potential users, to ensure the enhancements align with the project objectives.
- Data Engineer, OCBC Bank, Singapore** Jul 2022-Aug 2023
- Engineered OCBC Malaysia's ELI Trade Automation Smart Process Robot, revolutionizing trade reconciliation for 50+ parameters, reducing processing time from 40+ minutes to <1 minute per trade, handling 1500+ daily trades error-free. Also, led the design and implementation of versatile Automation systems for efficient data extraction, comparison, and notification across diverse formats.
  - Guided the transition of on-premises systems onto Jenkins, simultaneously introducing the PyTest framework to automate Python script testing and ensure a minimum of 80% code coverage.
  - Collaborated closely with the Treasury team to comprehensively understand their data processing needs and challenges. Documented specific requirements to ensure alignment with project objectives and user expectations.
  - Onboarded countless interns onto the team, seamlessly integrating them into delivering for the team.
- Data Scientist [SHINE Programme], Singtel, Singapore** Jan 2022-Jun 2022
- Clustered and labelled ~100,000 customers with more than 20 features using PySpark, assisted and piloted management in implementing a new product structure.
  - Analysed customer shakedown behaviour and reported to higher management by utilising Lifeline.
- University Python Mentor, UCL, United Kindom** Oct 2019-Jun 2020
- Prepared coding lectures and programs for less-privileged children.

## RELATED PROJECTS AND EXPERIENCES

- Equity Price Analytics, NTU, Singapore** Jan 2022-Feb 2022
- Programmed buy and sell signals by Simple and Exponential Moving Averages while updating structures of coding to generate long-short pairs of equities for my Pairs Trading strategy.
- NLP of Toxic Comment Classification, NTU, Singapore** Oct 2021-Feb 2022
- Remodelled machine learning methods such as LSTM to achieve better efficiency and accuracy, compared to other less complex models such as Logistic regression.
- Car Rental Blockchain Smart Contract, NTU, Singapore** Dec 2021-Jan 2022
- Designed a smart contract using Solidity to execute the daily functions of car rental companies.
- Human Facial Expression Recognition, NTU, Singapore** Jul 2021-Oct 2021
- Engineered different models on facial recognition by PyTorch and SKLearn, achieving 76% accuracy.
- Cryptography Simulation Project, UCL, UK** May 2019-Jun 2019
- Utilised Diffie-Hellman Key methods for encryption and decryption of code for a security system.

## SKILL & INTERESTS

### IT Skills:

- Python(PyTest, PyTorch, PySpark, etc), R, JavaScript, HTML, React, SQL, Solidity, Mathematica
- Others: AWS, Jenkins, Git, Jira, Bitbucket, Confluence, UML, Cucumber, dbt, YogaByteDB

**Language:** Mandarin (Native), English (Fluent), Japanese (JLPT N2)

**Interests:** Sudoku, Bodybuilder, Quick Swimmer, Bread Making, Travelling (UAE, Sri Lanka, Maldives...)