ANG TENG YEN EUGENE

EDUCATION

National University of Singapore

Bachelor of Science (Hons) in Applied Mathematics, minor in Economics and Statistics
- Graduated with Highest Distinction (CAP: 4.57/5)

TECHNICAL SKILLS

Programming Language and Tools: Python, SQL, R, MATLAB, Stata, Tableau, Neo4j, Java
Skillsets: Optimisation, Graph Theory, Machine Learning, Cryptography, Network Analysis

PROJECTS AND PUBLICATIONS

Honours Year Project (August 2020 – April 2021)
- Built an interpretable ICU mortality risk calculator to provide insights for clinicians
- Constructed a database to contain about 12 years of medical history and used Postgres-SQL for feature extraction and analysis on a Linux server
- Developed several machine learning models in Python and performed a benchmarking study, focusing on their interpretability
- Published at IEEE EMBC Conference 2021, https://ieeexplore.ieee.org/document/9631058
- Attended and presented at IEEE EMBC Conference 2021 from 1 – 5 November 2021

Undergraduate Research Opportunity Program in Science (January 2019 – April 2019)
- Did solo research on geometry and topology (reconstruction of Goldbach's parameterization of the deformation space of convex real projective structures on a pair of pants)

WORKING EXPERIENCE

Teaching Assistant @ NUS (January – May 2022)
- Teaching Assistant for NUS MSBA DBA5104 Network Science and Analytics Module
- Responsible for grading students' assignments and hosting consultations hours
- Conducted tutorials to teach students on how to code and visualize networks

Research Assistant @ NUS Energy Studies Institute (December 2020 – January 2021)
- Involved in Greenhouse Gas Maritime Project that aims to model and predict greenhouse gas emission level of maritime vessels
- Constructed gravity models on worldwide trade data in Python and Stata
- Conducted data analysis on economic trade data in Python

Research Intern @ Institute for Mathematical Sciences/Ministry of Manpower (June – July 2020)
- Collaborated with the Ministry of Manpower to research on variables classification techniques
- Categorised job profiles using natural language processing models
- Wrote several web-scraping codes to study job profiles on various portals
- Designed supervised, deep, unsupervised natural language processing models in Python

Research Assistant @ NUS Centre of Maritime Studies (June 2019 – October 2019)
- Involved in Greenhouse Gas Maritime Project that aims to model and predict greenhouse gas emission level of maritime vessels
- Analysed worldwide maritime and trade data in Python and R
- Designed network and regression models to visualize the associated greenhouse gas emission level
- Assisted in reviewing maritime and economic papers

CO-CURRICULAR ACTIVITIES

Intellectual Games Club, Chinese Chess Captain (2018 - 2019), **President** (2019 - 2020)
- Organised NUS Invitationals Chess Competition 2019, 2020 as Project Director
- Expanded the club by including a new subsection, Riichi Maajan
- Initiated projects such as simultaneous chess exhibition, online chess tournament

ADDITIONAL INFORMATION

Languages: English, Chinese
Award: CO Coin for Ex Wallaby, NUS Students' Sports Club Half-Colours Award, ORSS Prize 2021