Edward (Ying-Lun) Cheng

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EDUCATION

University College London (UCL)   London, UK
MSc Machine Learning (First-Class Honours)   *2021-2022*

- **Modules**: Supervised Learning, Machine/Robot Vision, Natural Language Processing, Data Mining, Applied ML

University College London (UCL)   London, UK
BEng Electronics & Electrical Engineering (First-Class Honours)   *2018-2021*

- **Modules**: Machine Learning, Intelligent Systems, Mathematical Modelling and Analysis, CNN/CycleGAN final project.

EXPERIENCE

[CYENS](#)   London, UK
Deep Learning Intern   *Jun 2022- Sep 2022*

- Implemented building detection using U-net based on TensorFlow and across 3 dataset to ensure consistency of model.
- Increased performance by $1 - 2\%$ (metric used: Intersection over Union).
- Introduced an unique (not found in any of 30+ references reviewed, approved by supervisor) data augmentation technique (boundary addition during training) and post-processing (fake positive erosion).

PROJECTS

Stock Trading Strategy based on Moving Average/XGBoost/LSTM   *Jan 2023 – Feb 2023*

- Researched and improved a trading strategy outperformed DCA by 84% (backtesting period ranged from 6 months to 6 years).
- Analysed and visualised the results (over 3 types of graphs to best represent different scenarios) for clear presentation.

Multi-task learning with Efficient-Net   *Dec 2021 - Jan 2022*

- Built multi-task learning models (3 tasks successfully combined) using TensorFlow and pet dataset.
- Extended TensorFlow Efficient-Net and investigated effects of auxiliary tasks, resulting in a 5% improvement in accuracy.

Emotional Voice Conversion   *Nov 2020 - Apr 2021*

- Extended PyTorch CNN models and TensorFlow CycleGAN models. Achieved 2 deep learning voice conversion models approved by professor.
- Self-taught most materials and topics required, including CNN, CycleGAN, Mel Spectrogram, parallel and non-parallel training, etc. Graded A by several academic supervisors.

Monthly Engineering Challenges   *Sep 2018 - Apr 2021*

- Led teams of 4-7. Managed cross-functional teams to deliver projects on time and meet objectives.
- Provided support to both software and hardware teams (Arduino, Python, circuit design, etc.).

PUBLICATION

Lin, M.Y.C., Nguyen, T.T., **Cheng, Edward Ying-Lun**, Le, A.N.H., and Cheng, J.M.S. (2023), "Proximity marketing and Bluetooth beacon technology: A dynamic mechanism leading to relationship program receptiveness", *Journal of Business Research, 141*, 151-162 (2021 SSCI IF: 10.969, JCR in Business 17/154, Q1).

CERTIFICATE

DeepLearning.AI TensorFlow Developer *(DeepLearning.AI)*   *Jul 2023*

ADDITIONAL EXPERIENCE

University Representative Assistant   Tainan, Taiwan
UKEAS (Study world spring exhibition)   *Feb 2021 – Mar 2021*

- Facilitated communication between over 30 prospective students and university representatives.

Physics Tutor   Tainan, Taiwan
Self-employed   *Feb 2021 – Mar 2021*

- Tutored high school physics. Student was accepted by Department of Electrical Engineering, National Taiwan University.

Physics Student Representative   London, UK
University College London (UCL)   *Sep 2017 – Jun 2018*

- Gathered, organised, and presented feedback from over 100 students.
- Re-designed remaining 3 coursework with professors.

SKILLS AND INTEREST

Technical skills: Python (scikit-learn, TensorFlow, PyTorch, NumPy, pandas, Matplotlib), Excel, MATLAB, HTML, CSS, MySQL, LATEX, Multisim, RoboDK.
Languages: Mandarin (Native), Taiwanese Hokkien (Native), English (Fluent).
Interests: UCL badminton team, calligraphy, photography, go chess.