LIANA LING LI YA

Masters of Science (MSc) in Computer Science
Apr 10, Phoenix Park Racecourse,
Castleknock, D15 X381, Dublin 15
Dublin, Ireland.

Email: **lianalingliya@gmail.com**
Mobile: **+353 87 248 1446**
GitHub: **github.com/lianaling**
This Document: **Coded with LaTeX**

ABOUT ME

- **Programming:** Python, R, Jupyter, C++, C♯, Java, ASP.NET, SQL, HTML/CSS/Javascript, VueJS, Quasar
- **Mathematics:** Statistics and Probability, Monte Carlo Simulation, Quantitative Research Methods
- **Languages:** Native-level English and Chinese; conversational in Malay and Cantonese
- **Interests:** AI Ethics, AI Art, NLP, Quant Research, Philosophy, Social Science

EDUCATION

- **University College Dublin** — Dublin, Ireland

  Masters of Science (MSc) in Computer Science (in Machine Learning) — *Sep 2023 – Sep 2024*
    - Modules: Advanced Machine Learning, Connectionist Computing, Text Analytics, Applied Statistical Modelling, Monte Carlo Simulation, Generative AI...

- **Tunku Abdul Rahman University of Management and Technology** — Kuala Lumpur, Malaysia

  Bachelor of Computer Science (Honours) in Software Engineering; CGPA:3.98/4.00 — *Oct 2019 – Oct 2022*
  Foundation in Science; CGPA: 4.00/4.00 — *Sep 2018 – Sep 2019*

EXPERIENCE

- **Balaena Quant Sdn Bhd** — Kelana Jaya, Malaysia

  Junior Quant Researcher — *Dec 2022 – Sep 2023*
    - Researched and designed minute-level statistical arbitrage algorithms for crypto derivatives
    - Analysed options volatility surface and order book imbalance data
    - Written scripts to automate large-scale historical data insertion for crypto trading pairs

- **Datasonic Smart Solutions Sdn Bhd** — Putrajaya, Malaysia

  Machine Learning Intern — *June 2022 – Nov 2022*
    - Read through journal papers on speech recognition and computer vision
    - Categorised, labelled and augmented 4000 image data using CVAT
    - Trained YOLOv7 to perform card detection with mAP@.5 of 0.998 using PyTorch
    - Designed UI for an OAuth system and connected to backend using VueJS and Quasar

ACADEMIA

- Ling, L., Amirul Imran Ahmad Azam, Ramanathan Palaniappan, & Tin, T.T. (2021, November 25-27) *Artificial Intelligence Art: Attitudes and Perceptions Toward Human Versus Artificial Intelligence Artworks.* [Paper presentation]. ICHESMET 2021.

PROJECTS

- **Feedforward Neural Network From Scratch** — Deep Learning

  Python — *Nov 2023 – Dec 2023*
    - Implemented an extendable library for customisable neural network architecture
    - Obtained 80% test accuracy on the UCI letter recognition dataset

- **SliGen, AI Automatic Slide Generator** — Natural Language Processing

  Transformer, Python, Flask — *Oct 2021 – Mar 2022*
    - Fine-tuned a HuggingFace T5 model on the ArXiV dataset for title generation
    - Summarised text using transformers, converted into Markdown and generated slides via SliDev

- ○ Constructed API interface with Flask for linking to web-based application
- **Cataclysm, Cat Detector** Image Processing
  Haar Cascade Classifier, Python, Threading, Telegram API *7th Mar 2022*
- **Summarize, AI Text Summariser** Natural Language Processing
  Transformer, Python, Jupyter Notebook *Sep 2021 – Oct 2021*
  - ○ Read through 20+ journal papers and applied 3 abstractive summarisation algorithms
  - ○ Designed an experiment, curated relevant dataset, tested algorithms and produced a comparison report that eventually received 98/100 marks

ACHIEVEMENTS

- TAR UMT President's Award (valedictorian/top performing student)
- TAR UMT President's List certificates (GPA 3.9000 and above)
- Band 8.5 on a -band scale for IELTS 2022
- Most Disciplined Student, Highest Average Score, Highest Number of Modules Completed in 2015, 2016 and 2017 in Secondary School

ACTIVITIES

- **Taman Sri Muda Flood Relief** TAR UMT/Shah Alam Gospel Centre
  Volunteer *24th, 27th Dec 2021*

- **Google #GCPBoleh** Google
  Self-Learning Student *Oct 2021 – Nov 2021*
  - ○ Completed 5 Machine Learning and 1 BigQuery Data tutorials on GCP

- **Google Developer Student Club TAR UMT** Google
  Marketing & Creative Lead *Jan 2021 – Oct 2021*
  - ○ Managed communication channels on 5 social media accounts
  - ○ Created event posters and relevant captions
  - ○ Hosted and facilitated the event *Meet the Xperts: A Journey in the IT Industry*

- **Programming League National 2020** University of Malaya
  Participant *29th Feb 2020*

- **Innovation and Prototyping Competition 2019** TAR UMT
  Participant *Feb 2019 – Mar 2019*

- **Foundation in Science (Track A)** TAR UMT
  Class Representative *Sep 2018 – Sep 2019*
  - ○ Collected fees and printed learning materials for the class
  - ○ Communicated with the school management, lecturers and students