



## LIANA LING LI YA

Junior Quant Researcher  
Apr 10, Phoenix Park Racecourse,  
Castleknock, D15 X381, Dublin 15  
Dublin, Ireland.

Email: [lianalingliya@gmail.com](mailto:lianalingliya@gmail.com)  
Mobile: +353 87 248 1446  
GitHub: [github.com/lianaling](https://github.com/lianaling)  
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## EDUCATION

- **University College Dublin** Dublin, Ireland  
*Masters of Science in Computer Science* Sep 2023 – Sep 2024
  - **Skills Acquiring:** Machine Learning, Connectionist Computing, Monte Carlo Simulation, Generative AI
  - **Languages:** Native-level in written/spoken English and Chinese; Conversational in Malay
- **Tunku Abdul Rahman University of Management and Technology** Kuala Lumpur, Malaysia  
*Bachelor of Computer Science (Honours) in Software Engineering; CGPA: 3.9793* Oct 2019 – Oct 2022  
*Foundation in Science; CGPA: 4.0000* Sep 2018 – Sep 2019
  - **Skills Acquired:** C++, C#, Java, Python, ASP.NET, SQL, HTML/CSS/Javascript, VueJS, Quasar

## EXPERIENCE

- **Balaena Quant Sdn Bhd** Kelana Jaya, Malaysia  
*Junior Quant Researcher* Dec 2022 – Sep 2023
  - **Statistical Arbitrage:** Researched and designed minute-level stats arb algorithms in crypto future derivatives
  - **Research and Exploration:** Assisted in researching options volatility surface and order book imbalance
  - **Data Pipeline:** Written a script 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
  - **Academic Research:** Read through journal papers on speech recognition and computer vision
  - **Data Preparation:** Categorised, labelled and augmented 4000 image data using CVAT
  - **Model Training:** Trained YOLOv7 to perform card and landmark detection with mAP@.5 of 0.998 using PyTorch
  - **UI/UX Design:** Designed UI for an OAuth system while connecting to backend services using VueJS and Quasar
- **LS SMART MACHINERY (M) SDN BHD** Seri Kembangan, Malaysia  
*Junior Software Developer* May 2021 – Jun 2021
  - **Requirement Elicitation:** Communicated and documented stakeholder requirements
  - **Project Reporting:** Researched and reported on competitor analysis and project costing
  - **Database Design:** Designed, documented and implemented PostgreSQL database schema
  - **Backend Setup:** Connected application to Stripe API using Golang and Fiber.ctx
- **RSBAITAI by Turcomp BMB SDN BHD** Work from home, Malaysia  
*Chinese-English Translator-cum-Proofreader* May 2020 – Nov 2021
  - **Translation:** Translated and proofread 80+ blog articles and 2 published books
  - **Translation Management:** Created a database using Excel Macros for article tracking
- **Chill Solutions** Work from home, Malaysia  
*Senior Translator-cum-Proofreader* Nov 2019 – May 2020  
*Junior Translator-cum-Proofreader* Aug 2019 – Oct 2019
  - **Translation:** Translated 40+ web novel chapters from Chinese to English
  - **Proofreading:** Proofread and gave feedback on 35+ works by junior translators
- **Chempaka Kota Kemuning, Assembly of God** Shah Alam, Malaysia  
*Chinese Teacher* Aug 2019 – Oct 2019
  - **Tutoring:** Handled 3 classes of age groups ranging from 5 to 15 years old

## PROJECTS

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- **SliGen, AI Automatic Slide Generator** Natural Language Processing  
Oct 2021 – Mar 2022  
*Transformer, Python, Flask*
  - **Model Training:** Fine-tuned a HuggingFace T5 model on the ArXiv dataset for title generation
  - **Core Algorithm Implementation:** Summarised text using transformers, converted into Markdown and generated slides via SliDev API
  - **API Construction:** Constructed API interface with Flask for linking to web-based application
- **Cataclysm, Cat Detector** Image Processing  
7th Mar 2022  
*Haar Cascade Classifier, Python, Threading*
  - **Cat Frontal Face Detection:** Processed frames from IP camera via Android phone with haar cascade classifier
  - **Threading:** Started two threads to delay notifications sent via Telegram Bot API
- **Summarize, AI Text Summariser** Natural Language Processing  
Sep 2021 – Oct 2021  
*Transformer, Python, Jupyter Notebook*
  - **Research and Implementation:** Read through 20+ journal papers and applied 3 abstractive summarisation algorithms
  - **Experiment Design:** Designed an experiment, curated relevant dataset, tested algorithms and produced a comparison report that eventually received 98/100 marks
- **Art Gallery Website** Web Development  
May 2021 – Oct 2021  
*C#, ASP.NET, VueJS, Tailwind CSS, HTML/CSS/Javascript*
  - **Frontend Development:** Created 5+ pages using self-learned Tailwind CSS and Vue
  - **Backend Development:** Added intra-page and inter-page functionalities using C#
  - **Database Design:** Designed, documented and implemented SQL Server schema

## ACADEMIA

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- 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.

## ACHIEVEMENTS

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- **President's Award:** Top student with best academic and co-curricular performance
- **International English Language Testing System (IELTS) 2022:** Band 8.5 on a 9-band scale
- **TAR UMT President's List certificates:** For GPA 3.9000 and above
- **TAR UMT Certificate in Soft Skills:** For foundation and bachelor's degree
- **Malaysian University English Test (MUET) 2019:** Band 5 on a 6-band scale
- **Nanjing University Translation in Practice Online Course Certificate:** Certificate of Completion
- **Cisco Networking Academy CCNA Routing and Switching:** Introduction to Networks Course Completion Certificate
- **Secondary School Awards:** Most Disciplined Student, Highest Average Score, Highest Number of Modules Completed in 2015, 2016 and 2017

## ACTIVITIES

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- **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
  - **Tutorial:** 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
  - **Account Management:** Managed communication channels on 5 social media accounts
  - **Poster and Caption Design:** Created event posters and relevant captions
  - **Event Hosting:** 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
- **Violin for Beginners Level 1, 2 and 3** TAR UMT  
*Participant* Mar 2019 – Dec 2019
- **Foundation in Science (Track A)** TAR UMT  
*Class Representative* Sep 2018 – Sep 2019
  - **Administration:** Collected fees and printed learning materials for a class of more than 15 people
  - **Coordination:** Communicated with the school management, lecturers and students