

## Chi Yunnng Lim

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### EDUCATION

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#### MSc in Data Science, London School of Economics and Political Science

Graduating September 2025

- Achieved: Distinction.
- Notable modules include Machine Learning and Data Mining; Deep Learning; Reinforcement Learning; Graph Data Analytics and Representation Learning; and Distributed Computing for Big Data (audited).
- Capstone project with Transport for London titled: “Quantifying the Socioeconomic Impacts of the Superloop Bus Line”.

#### BSc in Actuarial Science (Statistics), London School of Economics and Political Science

September 2019 - June 2022

- Achieved: 1st Class Honours.

### PROFESSIONAL EXPERIENCE

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#### Ageas UK

##### Actuarial Analyst – Statistical Modelling and Data Science

January 2024 – July 2024

- Developed and researched alternate statistical distributions for a Monte Carlo simulation model to estimate 99.5% VaR for regulatory capital against Natural Catastrophe risk, improved capital allocation by 1.9%. (SQL/R)
- Implemented text-mining to automate data cleaning for frozen pipe claims, saved 10 hours per quarter. (SQL/R/NLP)
- Re-engineered company’s ‘Best Estimate’ model for capital reporting and reduced process time by 50%. (SQL/Python)
- Mentored and aided the development of 2 new Trainee Actuaries in reserving methodologies and tools.
- Achieved promotion from ‘Trainee Actuary’ position 9 months early.

##### Trainee Actuary – Data Analysis and Visualisation

September 2022 – January 2024

- Designed and implemented end-to-end ETL pipeline into a monthly-updated claims analytics dashboard for the Household business, reducing manual reporting time by 7 hours monthly. (SQL/Power BI)
- Applied time series methods to analyse cyclical trends in claim frequency and severity to forecast and phase the 2023 financial budget; reduced root mean squared variation to budget by 0.8%. (SQL/R)
- Collaborated with Pricing team to revamp Long-Term Pricing strategy, modelling, and visualisation process for the Household business. (SQL/Power BI)
- Performed regular analysis of claims and calculated liability provisions reporting to Chief Actuary and Chief Financial Officer. (SQL/Excel/Python/PowerPoint)

### PROJECTS

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#### Detecting Behavior with Sensor Data – Kaggle Competition by Child Mind Institute (Python)

In progress

- Researching predictive techniques to classify “body-focused repetitive activity” from data collected from wrist-worn devices.

#### Locating Flagellar Motors in 3-D Reconstructions of Bacteria (Python/PyTorch/Computer Vision)

April 2025

- Researched and implemented computer vision models to detect bacterial flagellar motors in 3D microscopy data – achieved 0.761 F2-score.

#### Nowcasting UK Housing Statistics, HM Treasury AI Hackathon (Python/R)

February 2025

- Experimented with different forecasting techniques to predict new housing completions for government decision-making.

#### Crime and Socioeconomic Factors in London (Python/Scikit-learn/Matplotlib/BeautifulSoup)

January 2025

- Engineered a data pipeline to scrape, clean and analyse socioeconomic and crime data.

#### Classifying Immune Cells with Machine Learning (R)

December 2024

- Applied principal component analysis and tuned multiple classifiers to identify immune cell types from high-dimensional genomic data, achieved 0.951 F1-score.

#### Statistical Analysis of Pass Rates at Crawley and Wood Green Driving Test Centres (R)

December 2024

- Conducted rigorous hypothesis testing and used logistic regression to analyse factors influencing driving test outcomes.

### OTHER EXPERIENCE

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#### 2<sup>nd</sup> Team Captain, LSE Men’s Table Tennis

September 2024 – Present

#### Session Organiser, PlayFit Sports & Social (Basketball)

April 2023 – Present

### ADDITIONAL SKILLS

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**Programming Languages, Frameworks & Tools:** Python, SQL, R, TensorFlow, PyTorch, Scikit-Learn, XGBoost, PySpark, Git & Github, Google Cloud Platform, Power BI, Big Query, Microsoft Excel, Powerpoint & Word.

**Other Skills:** Linear & Logistic Regression; Stochastic Simulation; Hypothesis Testing; Time Series & Forecasting; Dimension Reduction; Feature Engineering; Neural Networks; Model Evaluation; Data Visualisation.