PERSONAL DETAILS

Birthday	09/03/1995
Address	29 Meridian Place, London E14 9FE
Phone	+447450972057
Mail	hang.lou.19@ucl.ac.uk, louhang39@gmail.com
Website	https://hanglou.github.io/

EDUCATION

PhD. Mathematics

University College London

- **Research interests:** Rough Paths theory, Deep learning, Geometric Deep learning, Stochastic analysis, Time series modelling, Machine learning
- PhD. Projects:
 - Path development network with finite-dimensional Lie group
 - Synthetic time series generation with expected Path development
 - Spatial learning for structure-based drug design
 - Explainable machine learning on financial time series
 - Early detection of Sepsis and Covid-19
- Invited talks:
 - The Banff International Research Station: New interfaces of Stochastic Analysis and Rough Paths workshop
 - Datasig: Rough Paths interest group
- Scholarships: Chinese Scholarship Council Award and Faculty's Dean's Prize

MSc. Statistics

Imperial College London

- Qualification: Distinction
- **Courses**: Machine Learning, Big Data, Applied Statistics, Computational Statistics, Probability Theory, Statistical Inference, Pricing and Hedging, Financial Econometrics, Computational Stochastic Process
- Master Thesis: Hedging and Pricing by Deep Learning

BSc. Mathematics

Imperial College London

- Qualification: First Class Honours
- **Courses** : Time Series, Scientific Computing, High Performance Computing, General Relativity, Mathematical Analysis, Calculus, Games Risk and Decision, Computational PDEs, Linear Algebra







Oct 2014-

June 2017

WORK EXPERIENCE

Arabesque AI

London, AI research intern

- Time series feature engineering and market clustering.
- AI engine training and evaluation.

Zeus Capital

London, Summer Intern

- Presented bottomed up research about ten stocks to senior management.
- Implemented Modern Portfolio Theory and build up an Efficient Frontier for stocks in Excel.
- Regularly Attended client-facing meetings.

Stanhope Capital

London, Summer Intern

- Research and presented China's 2016 credit bubble.
- Research and presented Turkish coup and its further impact on global economy.
- Regularly attended portfolio meetings and client-facing meetings.

SKILLS

Mandarin (Native) Languages English (Business Fluent) Software PYTHON, GITHUB, PYTORCH, MATLAB, TENSORFLOW, KERAS, LATEX, R, SCALA, SPARK, POWERPOINT

INTERESTS

Mixed team captain of Imperial College Badminton Badminton



Aug 2016-

April 2021-

Oct 2021

Sep 2016



