Man Fung (Heman) LEUNG

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RESEARCH INTERESTS

Time Series, Statistical Computing, Causal Inference, Machine Learning

EDUCATION

University of Illinois Urbana-Champaign (UIUC)
Ph.D. in Statistics — May 2026 (Expected)
Thesis: TBD
Advisor: TBD

The Chinese University of Hong Kong (CUHK)
M.Phil. in Risk Management Science — Jul 2021
Thesis: *A General Theory of Recursive Nonparametric Estimation*
Advisor: Kin Wai CHAN

B.Sc. in Quantitative Finance and Risk Management Science, First Class Honors — Jul 2019
Minor: Statistics

University of California, Davis
Academic Exchange, UC Education Abroad Program — Sep – Dec 2017

RESEARCH PROJECT

A Remark About a Learning Risk Lower Bound — Mar – Oct 2020
Collaborated with Yiqi LIN and Nicolas WICKER — *Submitted*

- Corrected a learning risk lower bound in the non-realizable case appearing in some classical textbooks

PRESENTATIONS

Simulation Run Length Control with Super-optimal Long-run Variance Estimators — Aug 2021
JSM 2021 — *Speed*

Diagnosing Learning Algorithms with Super-optimal Recursive Estimators — Dec 2020
ICSA 2020 Applied Statistics Symposium — *Poster*

TEACHING EXPERIENCE

Department of Statistics, CUHK — Sep 2019 – May 2021
Teaching Assistant

- Selected as the teaching assistant for a postgraduate core course about Monte Carlo simulation
- Published diverse learning materials for both undergraduate and postgraduate on personal website
- Led and presented in reading group meetings on "Asymptotic Theory in Time Series" in 2020

PROFESSIONAL SERVICE

Hong Kong Statistical Society — Jun 2020, Apr 2021
Statistical Project Competition for Secondary School Students — *Adjudicator*

WORK EXPERIENCE

Department of Finance, CUHK — Sep – Dec 2018
Practicum

- Explored and extracted high-level features from volatility surface using machine learning
- Hypothesized and tested the relationship between stock return and features in multiple models
- Developed a trading algorithm to profit from the tested relationship for Contrendian Limited

Research Department, Hong Kong Monetary Authority Jun – Aug 2018
Summer Intern

- Investigated the impact of IPO on interbank and exchange rate markets using econometrics
- Optimized research procedures by employing automation and NLP with JavaScript and R
- Conducted preliminary analysis in a SME financing project collaborated with the FSB

Risk Advisory, Ernst & Young Advisory Limited May – Aug 2017
Summer Intern

- Developed an impairment analytics tool in an IFRS 9 project for CCB (Asia) with VBA
- Designed and conducted statistical tests and adjustments on PD and LGD models
- Collaborated with other teams to prepare disclosure guidance and strategic advice

SELECTED AWARDS

Centaline Charity Fund Scholarship	Sep 2015 – Present
CLP Centenary Scholarship	Aug 2018
CUHK, Best Essay Award 2015-16, Silver Award	Mar 2017
Stockholm School of Economics in Riga, Peak Time 2016, 1st Runner-up	Apr 2016
The Standard, Liberal Studies Writing Competition 2013-14, 2nd Runner-up	Jul 2014

COMMUNITY SERVICE

Lee Woo Sing College, Green Life Ambassador	Sep 2015 – Jul 2019
Hong Kong BioBlitz 2015, Social Media Administrator	Sep – Dec 2015

TECHNICAL SKILLS

Programming	R, C/C++, Python, VBA, JavaScript, Java
Publishing	R Markdown, TeX/LaTeX, HTML 5
Tools	MS Office, Eviews, Bloomberg Terminal, GIMP