Simon Sai Man KWOK

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Position:

Senior Lecturer, The University of Sydney, January 2019 to present
Lecturer (Assistant Professor), The University of Sydney, June 2012 to December 2018

Education:

Ph.D. in Economics, Cornell University, August 2012
M.A. in Economics, Cornell University, 2010
MPhil. in Statistics, The University of Hong Kong, 2006
B.Sc. in Actuarial Science, The University of Hong Kong, 2004

Fields of Interest:

Policy evaluation, Model misspecification test, Granger causality, Point processes, Time series analysis, Option pricing, High frequency finance, Credit risk analysis

Publications:

1. "Inferring Financial Bubbles from Option Data" (with Robert A. Jarrow), forthcoming in *Journal of Applied Econometrics*.

2. "The PCDID Approach: Difference-in-Differences when Trends are Potentially Unparallel and Stochastic" (with Marc K. Chan), forthcoming in *Journal of Business and Economic Statistics*.

3. "Jointly Determining the State Dimension and Lag Order for Markov-Switching Vector Autoregressive Models" (with Nan Li), published in *Journal of Time Series Analysis*, 42 (4), pp 471–491, July 2021.

4. "A Flexible Generalised Hyperbolic Option Pricing Model and its Special Cases" (with Claudia Yeap and S.T. Boris Choy), *Journal of Financial Econometrics*, 16 (3), pp 425–460, June 2018.

5. "Connecting the Markets? Recent Evidence on China's Capital Account Liberalization" (with Marc K. Chan), *Economic Modelling*, 70, pp 417–428, April 2018.

6. "Risk-Sharing, Market Imperfections, Asset Prices: Evidence from China's Stock Market Liberalization" (with Marc K. Chan), *Journal of Banking and Finance*, 84, pp 166–187, November 2017

7. "Capital Account Liberalization and Dynamic Price Discovery: Evidence from Chinese Cross-Listed Stocks" (with Marc K. Chan), *Applied Economics*, 48 (6), pp 517-535, February 2016.

8. "Specification Tests of Calibrated Option Pricing Models" (with Robert A. Jarrow), *Journal of Econometrics*, 189 (2), pp 397-414, December 2015.

9. “The Association of Trends in Charcoal Burning Suicide with Google Search and Newspaper Reporting in Taiwan: A Time Series Analysis" (with S.S. Chang, Q. Cheng, Paul S.F. Yip and Y.Y. Chen), *Social Psychiatry and Psychiatric Epidemiology*, 50 (9), pp 1451–61, September 2015.

10. “A Study on the Mutual Causation of Suicide Reporting and Suicide Incidences” (with Paul S.F. Yip, F. Chen, X. Xu and Y.Y. Chen), *Journal of Affective Disorders*, 148 (1), pp 98–103, May 2013.

11. “A Note on Diagnostic Checking of the Double Autoregressive Model” (with W.K. Li), *Journal of Statistical Computation and Simulation*, 79 (5), pp 705–715, September 2009.

12. “The Autoregressive Conditional Marked Duration Model: Statistical Inference to Market Microstructure” (with W.K. Li and Philip L.H. Yu), *Journal of Data Science*, 7 (2), pp 189–201, April 2009.

13. “On Diagnostic Checking of the Autoregressive Conditional Intensity Model” (with W.K. Li), *Canadian Journal of Statistics*, 36 (4), pp 561–576, December 2008.

Working Papers:

1. “Futures Contract Collateralization and its Implications” (with Robert Jarrow)

2. “A Consistent and Robust Test for Autocorrelated Jump Occurrences”

3. “Diagnostic Checks for Multivariate Parametric Intensity Models”

Ph.D. Dissertation:

Credit and Financial Contagion: A Point Process Approach

Awards:

Research Grant ($18K, $15K, $12K), Time Series and Forecasting Research Group, USyd Business School (2017, 2018, 2019)
Faculty Teaching Excellence Awards ($1,000), USyd (Nov 2015)
Conference Grant, USyd (July 2013, July 2014, July 2015, June 2017, Dec 2017, June 2018, Dec 2018, June 2021)
Research Incubator Grant ($5K), USyd (2014)
Research Grant ($15K x 2), USyd (June 2012, June 2013)
Conference Travel Grant, Cornell University (Summer 2011)
Outstanding Teaching Assistant Awards (2008, 2009)
Sage Fellowship, Cornell University (Fall 2006–Spring 2007, Fall 2010 – Spring 2011)
Conference Travel Grant, University of Hong Kong (Summer 2006)

Teaching Experience:

ECMT5001: Principle of Econometrics (since 2019s1)
ECON5005: Quantitative Tools for Economics (postgraduate unit, since 2018s2)
ECON5002: Macroeconomic Theory (postgraduate unit, 2016s2 – 2017s2)
ECMT1010: Introduction to Economic Statistics (2013s1– 2018s2)
ECMT3110: Econometrics Methods and Models (2013s1 – 2015s1)
ECMT3150: Econometrics of Financial Markets (since 2017s1)
Networks (Fall 2011)
Introduction to Econometrics (Spring 2010; 4.67/5.00)
Graduate Econometrics (Fall 2009; 4.53/5.00)
Introduction to Statistics and Probability (Spring 2009; 4.61/5.00)
Introduction to Statistics and Probability (Fall 2008; 4.92/5.00)
Graduate Microeconomics 2 (Spring 2008; 4.88/5.00)
Graduate Microeconomics 1 (Fall 2007; 4.81/5.00)

Supervised Students:

Sanghyun Han - Honours in Econometrics, 2014 (PhD in Economics at *Boston College*)
Topic: Econometrics of Markov Regime Switching Generalized Autoregressive Conditional Heteroskedastic Option Pricing Model based on Realized Volatility Measure

Claudia Yeap - Honours in Econometrics, 2014 (Trader at *Citi Global Markets*)
Topic: The Skew-*t* Option Pricing Model

Nan Li - Honours in Econometrics, 2016 (MPhil at Judge Business School, *Cambridge University*)
Topic: Determining The Number of Factors in Vector Autoregressive Models with Markov-Switching Components

Ariana Tammetta - Honours in Economics, 2016 (Research Assistant at *Macromonitor*)
Topic: Stock Returns and the Consideration of Investor Behaviour

Siqi Yuan – Honours in Econometrics, 2017 (working at a fund management firm – *the Mainstream Group*)
Topic: Detecting Bubbles in the presence of Jumps Diffusion Process GARCH error

Ziyan Zhang – Honours in Econometrics, 2017 (studying MPhil at Judge Business School, *Cambridge University*)
Topic: Nonparametric Inference of Contagion Effect across Regions and Sectors

Alexander Oh – Honours in Economics 2018 (working at Reserve Bank of Australia)
Topic: Electricity Price Volatility and Renewable Energy: Some evidence from Australia

Xin Zheng – PhD in Economics, 2019 (post-doctorate at *Tsinghua University*)
Topic: Shocks, Business Cycles and the Stock Market in the framework of Bayesian DSGE-VAR Model

Chenxu Wen – Honours in Econometrics, 2019
Topic: Inference on Integrated Volatility on the Presence of Self-excited Jumps

Lei Miao– Honours in Econometrics, 2019 (MSc in Applied Analytics at *Columbia University*)
Topic: High Frequency Data Jump Analysis on the Cryptocurrency Markets

Chun Zhang – Honours in Econometrics, 2019 (MSc in Finance and Economics at *LSE*)
Topic: Structural Dynamics of the Chinese Economy: What is the Role of Monetary Policy?

Yiyun Zeng – Master of Economic Analysis, 2021
Topic: The impact of COVID-19 and interest rate on the stock market: based on the VAR model with a deterministic structural shift

Professional Activities:

Associate Editor (2017-2019): Journal of Applied Probability and Statistics

Referee: Journal of Econometrics, Economic Record, Econometrics, Applied Economics, International Journal of Financial Studies, European Journal of Operational Research, Global Economic Review, International Journal of Development Issues, Emerging Markets Finance and Trade

Conferences and Seminars:

2021:
China Meeting of the Econometric Society (CMES), online conference (July 2021)
International Association for Applied Econometrics Annual Conference (IAAE), online conference (June 2021)
North American Summer Meeting of Econometric Society (NASMES), online conference (June 2021)
Invited seminar, Business School, UNSW (Apr 2021)

2019:
3rd Sydney Time Series and Forecasting Symposium, University of Sydney, Sydney (Nov 2019)
Invited seminar, Deakin University (Oct 2019)

2018:

12th Int. Conference on Computational and Financial Econometrics (CFE), Univ of Pisa, Italy (Dec 2018)
2nd International Conference on Econometrics and Statistics (EcoSta), City Univ HK, Hong Kong (June 2018)
28th Australia New Zealand Econometric Study Group (ANZESG), Univ of Queensland, Brisbane (Feb 2018)
1st Italian Workshop of Econometrics and Empirical Economics (IWEEE), Univ of Milano-Bicocca, Italy (Jan 2018)

2017:

The Asian and Australasian Society of Labour Economics (AASLE) Inaugural Conference, ANU (Dec 2017)
1st Sydney Time Series and Forecasting Symposium, University of Sydney, Sydney (Nov 2017)
4th Sydney Econometrics Research Group Workshop, University of Sydney, Sydney (Sept 2017)
1st International Conference on Econometrics and Statistics (EcoSta), HKUST, Hong Kong (June 2017)
International Association for Applied Econometrics Annual Conference (IAAE), Sapporo, Japan (June 2017)
Invited seminar, Business Analytic Discipline, University of Sydney, Sydney (Mar 2017)

2016:

Invited seminar, Department of Statistics and Actuarial Science, HKU, Hong Kong (Nov 2016)
Invited seminar, Department of Economics, University of Melbourne, Melbourne (Aug 2016)
UQ Econometrics Colloquium, University of Queensland, Brisbane (July 2016)

2015:

Invited seminar, Department of Economics, Monash University, Melbourne (May 2015)

2014:

Asian Meeting of the Econometric Society, Academia Sinica, Taipei (July 2014)
Invited seminar, Centre for Suicide Research and Prevention, HKU, Hong Kong (June 2014)
Invited seminar, Finance Group, Business School, UTS, Sydney (Mar 2014)
24th New Zealand Econometric Study Group (NZESG), University of Waikato, Hamilton (Feb 2014)

2013:

Invited seminar, Centre for Suicide Research and Prevention, HKU, Hong Kong (June 2013)
Econometric Society Australasian Meeting (ESAM), University of Sydney, Sydney (July 2013)
Invited seminar, Economics Group, Business School, UTS, Sydney (Mar 2013)

2012:

Invited seminar, School of Economics and Finance, QUT, Brisbane (Oct 2012)
Econometric Society Australasian Meeting (ESAM), Melbourne (July 2012)
Invited seminar, Department of Statistics and Actuarial Science, HKU, Hong Kong (July 2012)
XMU-UNCC International Symposium on Risk Management and Derivatives, Xiamen (June 2012)
SMU-ESSEC Symposium on Empirical Finance & Financial Econometrics, Singapore (June 2012)
Fifth Annual Society of Financial Econometrics Conference (SoFiE), Oxford (June 2012)

Before 2012:

Econometric Society Australasian Meeting (ESAM), Adelaide (July 2011)
Invited seminar, Department of Statistics and Actuarial Science, HKU, Hong Kong (July 2011)
Invited seminar, Wang Yanan Institute for Studies in Economics, Xiamen University, Xiamen (July 2011)
Econometric Society Australasian Meeting (ESAM), Alice Spring (July 2006)