CURRICULUM VITAE

Choo Wei Chong

Department of Management and Marketing,
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Research Interests: Forecasting, Financial Time Series Analysis, GARCH, Combining Forecasts, Volatility Forecasting, Exponential Smoothing, Smooth Transition Exponential Smoothing, Model Selection, Neural Networks and Robust Methods.

Teaching Interests: Business Statistics, Quantitative Techniques, Quantitative Methods in Business, Business Research Methods, Data Management, Decision Science, Decision Analysis, Business Forecasting.

Current Position: Senior Lecturer

Education:

- Post-Doctoral (Management Studies/Decision Science), 2011, University of Oxford, Oxford, United Kingdom.

- Doctor of Philosophy (Management Studies/Decision Science), 2008, University of Oxford, Oxford, United Kingdom.
  Thesis: Volatility Forecasting with Exponential Weighting, Smooth Transition and Robust Methods.

- Master of Science (Business Statistics), 1998, Universiti Putra Malaysia.
  Thesis: Generalised Autoregressive Conditional Heteroscedasticity (GARCH) Models for Stock Market Volatility.

- Bachelor of Science (Honors) (Major: Statistics, Minor: Computer Science), 1995, Universiti Pertanian Malaysia.
  Thesis: Flood Frequency Analysis.

Teaching Experience:

Courses taught at UPM – Business Research Methods [for Bachelor of Business Administration (BBA), Executive BBA], Quantitative Techniques [for BBA and Bachelor of Accounting and Finance (BAF)], Business Statistics [for Bachelor of Business Administration (BBA), Executive BBA, BAF, BBA (Distance Learning), BBA (Franchised private institutions), Master of Science (Management Studies)], Data Management [for University of Strathclyde MBA].

Teaching Evaluation (average): **Business Statistics – 4.8/5, Quantitative Techniques – 4.7/5.**

Awards and Achievements:

1. KUOK Foundation Undergraduate Awards 1993
2. Public Service Department Malaysia (Government) (Jabatan Perkhidmatan Awam, JPA) Undergraduate Scholarships, 1993-1995.
3. Post Graduate (Master of Science) Scholarships (PASCA) under the Ministry of Science, Technology and the Environment Malaysia, 1996-1998.
4. Staff Training Awards (reading for PhD at University of Oxford), Universiti Putra Malaysia, 2003-2006.
5. Nominee of Fulbright Scholarships 2003
6. Excellent Service Award 2001-2002, University Putra Malaysia
7. Excellent Service Award 2002-2003, University Putra Malaysia
8. Silver medal in RMC/UPM Research Exhibition (PRPI), 2009.
9. Best Participant Award in 'Experiential Learning', UPM, 2009.
10. International Symposium on Forecasting 2009 (ISF2009) Travel Award
11. Post-Doctoral Research Scholarships by Ministry of Higher Education, Malaysia, 2011(Visiting Academics at Said Business School, University of Oxford.)

Academic Appointments:

- Tutor, Department of Management and Marketing, Faculty of Economics and Management, UPM, 1997 – June, 1998
- Lecturer, Department of Management, Faculty of Economics and Management, UPM, 1998 – 2008
- Senior Lecturer, Department of Management, Faculty of Economics and Management, UPM, 2009 – present

Corporate Appointments:

- Non-independent Non-executive Director of Focus Point Holdings Berhad, 1 April 2010 – 31 June 2011.

Administrative Appointments at UPM:

Course Coordinator for Business Statistics, FEP, UPM
Member of the Internationalisation Unit, FEP, UPM

Research Experience:

The various research projects, I have undertaken are:

1. "Flood Frequency Analysis" funded by Faculty of Science and Environmental Studies, University Putra Malaysia (UPM) using the short-term grant (1995). – Researcher.
2. "Stock Market Volatility" funded through PASCAL, a postgraduate research grant by the Government Malaysia to UPM (1996-1997). – Project Leader.
3. "Modeling Currency Exchange Rate" funded by Faculty of Economics and Management, UPM using the short-term grant (1998). – Project Leader.
4. "The Statistical Behavioral of Stock Market Data in Malaysia" funded by Faculty of Economics and Management, UPM short-term grant (1999). – Project Leader.

5. "Applicability and Forecastability of Neural Network Models to the Financial Time Series in Malaysia" – Project Leader.
   * Funded by the research grants under the Intensification of Research in Priority Areas (IRPA) program (May 2000/May 2002), Ministry of Science, Technology and the Environment Malaysia, under 7th Malaysia Plan through Faculty of Economics and Management, UPM.
6. "To buy local; or to buy foreign. Application of Structured Equation Modelling and Neural Networks to the development of a Consumer Ethnocentrism Scale for Malaysia." – Researcher.
   * Funded by the research grants under the Intensification of Research in Priority Areas (IRPA) program (May 2002/May 2004), Ministry of Science, Technology and the Environment Malaysia, under 8th Malaysia Plan through Faculty of Economics and Management, UPM.
7. "Algorithms/Solution Techniques for Solving Multi-Plant, Multi-Item, and Multi-Period Production Planning and Distribution Problems With Inter-Plant Transfers." – Researcher.
   - Funded by the research grants under the Intensification of Research in Priority Areas (IRPA) program (May 2002/May 2003), Ministry of Science, Technology and the Environment Malaysia, under 8th Malaysia Plan through Faculty of Economics and Management, UPM.
8. "Modelling and Forecasting the Inbound Tourist Demand and its Volitality in Malaysia". – Project Leader
   * Funded by the research grants under the Geran Putra bagi Inisiatif Putra Berkumpulan (November 2013 – May 2016), RM83500
9. "Developing New Models for Volatility Forecasting with High Frequency Data". – Project Leader
   * Funded by the research grants under the FRGS/1/2016/SS01/UPM/02/3
   (151291-168744), (August 2016 – July 2018), RM56000

Supervision of students (Supervisor/Co-Supervisor):

More than 50 students (Undergraduates, MBA, MSc and PhD)

Publications:

Thesis:

1. Choo, W.C. (1995). Flood Frequency Analysis. *Bachelor of Science Thesis*, Faculty of Science and Environmental Studies, Universiti Pertanian Malaysia.
2. Choo, W.C. (1998). Generalised Autoregressive Conditional Heteroscedasticity (GARCH) Models for Stock Market Volatility. *Master of Science Thesis*, Faculty of Science and Environmental Studies, Universiti Putra Malaysia.
3. Choo, W.C. (2008). Volatility Forecasting with Exponential Weighting, Smooth Transition and Robust Methods. *Doctor of Philosophy Thesis*, Said Business School, University of Oxford.

Books:

1. Choo, W.C., Goh, P.L. and Sambasivan, M. (2001). *Business Statistics Study Guide*. Prentice Hall, Pearson Education Malaysia Sdn. Bhd., 2001.
2. Choo, W.C., Goh, P.L. and Sambasivan, M. (2002). *Business Statistics Study Guide*, *2nd Edition.* Prentice Hall, Pearson Education Malaysia Sdn. Bhd., 2002.
3. Sambasivan, M. and Choo, W.C. (2002). *Statistics for Management: A Study Guide.* Prentice Hall, Pearson Education Malaysia Sdn. Bhd., 2002.

4. Choo, W.C. (2002). *Statistics for Management*: *A Study Module for IDEAL. (Malay Version).* Institute for Distance Education and Learning, IDEAL, Universiti Putra Malaysia, 2002. (Statistik untuk Pengurusan, Modul Pembelajaran, IDEAL, UPM)
5. Choo, W.C. and Loo, S.C. *Research in Finance: GARCH, its applications and EMH*. UPM Press, 2009.
6. Choo, W.C. *Statistics for Management. A Study Module for IDEAL, 2nd Edition. (Malay Version).* Institute for Distance Education and Learning, IDEAL, Universiti Putra Malaysia, forthcoming. (Statistik untuk Pengurusan, Modul Pembelajaran, IDEAL, UPM)
7. Choo, W-C., Goh, P-L. and Sambasivan, M. (2013). *Statistics for Management*, Pearson Education Malaysia Sdn. Bhd., 2013.

Chapter in book:

1. *Lead-lag relationship between Spot and Futures Markets in Malaysia*, in Research in Finance by Choo and Loo, UPM Press, 2009.
2. *An Analysis of Political Elections on Bursa Malaysia Daily Stock Returns*, in Research in Finance by Choo and Loo, UPM Press,2009.
3. FIGARCH Approach for Long Memory and Efficient Market Hypothesis in Emerging Markets, in Research in Finance by Choo and Loo, UPM Press,2009.
4. *Combining volatility forecasts: Can market volume help?*, in Selected readings on issues and challenges of financial market and growth by Taufiq Hassan and Bany Ariffin, UPM press, 2009.

Journal Articles:

1. Choo, W.C., Ahmad, M.I. and Abdullah, M.Y. (1999). Performance of GARCH models in Forecasting Stock Market Volatility. *Journal of Forecasting*, 18, 333-343.(Cited 92 times in Google Scholar, H-Index 20; Cited 23 times in Scopus)
2. Choo, W.C., Ahmad, M.I. and Midi, H. (2001). A Parametric Bootstrap Simulation Study in EGARCH Model, *Pertanika Journal of Science and Technology*, 19, No. 2, 169-188.
3. Choo, W.C., Loo, S.C. and Ahmad, M.I. (2002). Modelling the Volatility of Currency Exchange Rate using the GARCH Model, *Pertanika Journal of Social Sciences and Humanities*, 10, Issue No. 2, 85-95.
4. Choo, W. C., Lee, S. N., Ung, S. N. (2010). Macroeconomics Uncertainty and Performance of GARCH Models in Forecasting Japan Stock Market Volatility. *International Journal of Business and Social Science*, 2(1), 200 – 208.
5. Choo, W. C., Loo, S. C., Ling, L. B., Ung, S. N. (2010). Return and Volatility Spillover between Large and Small Stocks in Bursa Malaysia. *International Journal of Business and Social Science*, 2(2), 176 – 185.
6. Ung, S. N., Choo, W. C., Sambasivan, M. and Nassir, A. M. (2014). The persistency of international diversification benefits: The role of the asymmetry volatility model. *Asian Academy of Management Journal of Accounting and Finance*, 10(1), 151–165.
7. Badariah Din, Muzafar Shah Habibullah and Wei Chong Choo. 2014. The impact of sustainable tourism and good governance on biodiversity loss in Malaysia. *SHS Web of Conference*, 12, 06063-p.2-06063-p.10. DOI: 10.1051/shsconf/20141201063. (Online Journal)
8. Norlida Ramly, Mohd. Fuaad Said, Suhaimi Ab. Rahman, Choo Wei Chong. (2014) Analyzing factors that influence e-Bidding Adoption in Malaysian Public Sector — Manuscript ID. JSSH-1231-2014. *Pertanika Journal of Social Science and Humanity* 2014
9. Norlida Ramly, Mohd. Fuaad Said, Suhaimi Ab. Rahman, Choo Wei Chong. (2015). Analyzing Factors that Affect E-Syariah Adoption by Shar'ie Lawyers. *Jurnal Pengurusan,* 43(June).
10. Choo, W.C. and Looi, C.C. (2016). A Comparative Study on the Forecast of Labour Turnover Rate, *Pertanika Journal of Social Sciences and Humanities*, 24(S), 1-18.

Proceedings:

1. Choo, W.C. (1995). Flood Frequency Analysis in Peninsular Malaysia. *Proceedings of National Statistics Seminar, 1995.*
2. Choo, W.C. (1996). Fitting Generalised Normal Distribution to Long Synthetic Flood Series. *Proceedings of National Statistics Seminar, 1996.*
3. Choo, W.C. (1997). Stock Market Models: A Comparison. *Proceedings of National Statistics Seminar1997.*
4. Choo, W.C., Loo, S.C. and Ahmad, M.I. (2000). Modelling the Volatility of Currency Exchange Rate using GARCH Model. *Proceedings of Faculty of Economics and Management Seminar 2000: Issues in Accounting and Finance.* pp 77-90.
5. Choo, W.C. and Caroline, F. (2002). Forecasting the Volatility of Stock Indices using Neural Networks. *Proceedings of Asia Pacific Economics & Business Conference 2002*.
6. Choo, W.C. and Hooy, C.W. (2003), A Comparison of Forecasting Performance of GARCH Models and GARCH-M Models in Foreign Exchange Rate. *Proceedings of the Malaysian Finance Association's 5th Annual Symposium 2003* (23-24 April 2003), 413-422.
7. Choo, W. C. , Hooy, C. W. and Lim, K. P. (2003). Forecasting Ability of Various GARCH Models: Evidence from Foreign Exchange Rate. *Proceedings of The First International Conference of the Asian Academy of Applied Business 2003*, 10-12 July 2003, Kota Kinabalu, Sabah, Malaysia, pp.324 - 331[ISBN: 983-2868-00-9].
8. Choo, W.C. (2008). Combining volatility forecasts: Can market volume help? *Proceedings of Faculty Seminar 2008*
9. Choo, W.C. (2009). Forecasting Stock Market Volatility: Combine or not to Combine? *Proceedings of the Malaysian Finance Association's Annual Symposium 2009.*
10. Choo, W.C. (2009). Volatility forecasting model selection with exponentially weighted information. *Proceedings of International Symposium of Forecasting 2009.* (The 29th International Symposium on Forecasting (ISF2009). June 21-24, 2009 Hong Kong SAR, China.)
11. Choo, W.C. and Tan. S.S. (2009). Forecasting volatility with realised volatility for gold and crude oil prices. *Proceedings of Faculty Seminar 2009.*
12. Choo, W.C., Ung, S.N. and Loo, S.C. (2009). Volatility forecasting with GARCH models under different distribution assumptions. *Proceedings of Faculty Seminar 2009.*
13. Ung, S.N., Choo, W.C. and Yan, H.Y. (2010). Forecasting volatility for China and Hong Kong stock markets. *Proceedings of International Symposium of Forecasting 2010*. (The 30th International Symposium on Forecasting **(**ISF2010**).** June 20-23, 2013 San Diego, USA**)**
14. Ung, S.N. and Choo, W.C. (2010). Generating Portfolio Volatility Forecasts from Smooth Transition Exponential Smoothing. *Proceedings of International Symposium of Forecasting 2010*. (The 30th International Symposium on Forecasting **(**ISF2010**).** June 20-23, 2013 San Diego, USA**)**
15. Tan, S.S. and Choo, W.C. (2010). Forecasting Volatility with Smooth Transition Exponential Smoothing in Commodity Market. *Proceedings of International Symposium of Forecasting 2010.* (The 30th International Symposium on Forecasting **(**ISF2010**).** June 20-23, 2013 San Diego, USA**)**
16. Choo, W.C. and Taylor, J.W. (2012). Further Empirical Evidence on Smooth Transition Exponential Smoothing. *Proceedings of International Symposium of Forecasting 2012.*(The 32nd International Symposium on Forecasting **(**ISF2012**).** June 24-27, 2012 Boston, USA**)**
17. Choo, W.C. and Taylor, J.W. (2013). Combining Volatility Forecasts using Discounted Least Squares and Smooth Transition Methods. *Proceedings of International Symposium of Forecasting 2013.* (The 33rd International Symposium on Forecasting **(**ISF2013**).** June 23-26, 2013 Seoul, Korea**)**
18. Tan, S. S., Choo, W.C. and Sambasivan, M. (2013). Modeling and Forecasting Volatility of Crude Oil using Smooth Transition Exponential Smoothing. *Proceedings of International Symposium of Forecasting 2013.* (The 33rd International Symposium on Forecasting **(**ISF2013**).** June 23-26, 2013 Seoul, Korea**)**

19. Ng, C.P., Choo, W.C. and Soh, C.J. (2013). Forecasting the Volatility of Crude Palm Oil Market. *Proceedings of International Symposium of Forecasting 2013.* (The 33rd International Symposium on Forecasting **(**ISF2013**).** June 23-26, 2013 Seoul, Korea**).**
20. Muzafar Shah Habibullah, Badariah Haji Din, Wei Chong Choo and Alias Radam. 2014. *Sustainable tourism, deforestratation and growth: The case for Malaysia. Proceedings of the 2nd Tourism & Hospitality International Conference (THIC 2014)*. Langkawi, Kedah, 5-6 November 2014.
21. Badariah Din, Muzafar Shah Habibullah and Wei Chong Choo. 2014. The impact of sustainable tourism and good governance on biodiversity loss in Malaysia, *Proceedings of 4th International Conference on Tourism Research (4ICTR),* 9-11December, 2014, Sabah, Malaysia.
22. Ng Chee Pung, Choo Wei Chong, Annuar Md Nassir and Bany Ariffin Amin Nordin. Bonus Share: Test with Event-Induced Variance. *Proceedings of National Research & Innovation Conference for Graduate Students in Social Sciences 2014* - GS-NRIC2014, *Corus Paradise Resort Port Dickson, 5th -7th December, 2014,* Organizer: UPM and Ministry of Education Malaysia

Test with Event-Induced Variance in Stock Dividend

Cash Dividend Increase: Test with Event-Induced Variance and Cross Correlation among Abnormal Returns

Conference papers:

1. Simulation Study of Long Synthetic Series and Quantile Comparison for Generalised Normal Distribution. *Proceedings of Institute of Statistics, Malaysia 1996.* (Presented at the Seminar Statistik 1996,UTM)
2. Stock Market Models : A Comparison. *Proceedings of Institute of Statistics, Malaysia 1997.* (Presented at the Seminar Statistik 1997)
3. Flood Frequency Analysis in Peninsular Malaysia (Presented at the Seminar Statistik Kebangsaan, UUM)
4. Bootstrap Simulation : A Parametric Approach in EGARCH Model. (Presented in the Seminar 1998, Jabatan Pengurusan dan Pemasaran)
5. Choo, W.C. and Tan, K.L. (2001). Forecasting The Kuala Lumpur Stock Exchange (KLSE) Composite Index Using Neural Networks. A paper presented at the 21st *International Symposium of Forecasting 2001*, June 17-21 at Callaway Gardens, Georgia, USA.
6. Choo, W.C. and Loo, S.C. (2001). Performance Of GARCH And Neural Networks Models In Forecasting Futures Market Volatility. A paper presented at the 21st *International Symposium of Forecasting 2001*, June 17-21 at Callaway Gardens, Georgia, USA.
7. Choo, W.C. and Ahmad, M.I. (2001). Forecasting Exchange Rate Volatility In Emerging Countries Using GARCH Model. A paper presented at the 21st *International Symposium of Forecasting 2001*, June 17-21 at Callaway Gardens, Georgia, USA.
8. Choo, W.C. and Hooy, C.W. (2001). Forecasting Performance of GARCH Models Versus GARCH in Mean Models. A paper accepted for presentation at the *Conference of Quantitative Methods in Finance 2001*, Sydney, Australia.
9. Ahmad, M.I., Hassan, M.N. and Choo, W.C. (2004). Comparison Of Statistical Models For Estimation Of Design Flood. A paper presented at the *Internaional Conference On Bridge Engineering And Hydraulic Structures, BHS 2004.*
10. Choo, W. C. & Taylor, J. W. (2005). Smooth transition combining of volatility forecasts. A paper accepted for presentation at the 25th *International Symposium of Forecasting 2005*, June 12 – 15 at San Antonio, Texas, USA.
11. Choo, W. C. & Taylor, J. W. (2006). Robust Volatility Forecasting with Smooth Transition Exponential Smoothing. A paper accepted for presentation at the 26th *International Symposium of Forecasting 2006*, June 11 – 14 at Santander, Spain.

Membership of Professional Societies:

1. Malaysia Statistical Institution
2. SPSS User’s Association of Kuala Lumpur Selangor (Malaysia)
3. SAS User’s Group of Malaysia
4. International Institute of Forecasters (IIF)

Ad hoc Reviewer:

1. Ad-hoc Reviewer - Journal of Asia Pacific Marketing
2. Ad-hoc Reviewer – International Journal of Forecasting
3. Ad-hoc Reviewer – International Journal of Economics and Management
4. Ad-hoc Reviewer –Asian Academy of Management Journal of Accounting and Finance

Computational and Programming Abilities:

1. SAS
2. S-PLUS
3. SPSS
4. GENSTAT
5. Minitab
6. Neural Connection (Neural Network)
7. Fortran
8. JAVA – Dynamic programming
9. GAUSS