




NUTTANAN WICHITAKSORN


Research Fellow

Thailand Development Research Institute (TDRI)

Address in Thailand:

Thailand Development Research Institute (TDRI)
565 Soi Ramkamhaeng 39, Ramkamhaeng Rd,
Wangthonglang District, Bangkok 10310, Thailand

 **Tel:** (662) 718-5460-(340)

 **Fax:** (662) 718-5461-2

 **E-mail:** nuttanan@tdri.or.th
nuttanan.wichitaksorn@gmail.com

Education:

February 2013 (*conferred*) Ph.D. in Econometrics
University of Sydney, New South Wales, Australia

2008 M.A. in Economics Rutgers University,
New Brunswick, New Jersey, USA

2002 Master of Economics
Chulalongkorn University, Bangkok, Thailand

1994 B.Sc. in Cooperative Economics
Kasetsart University, Bangkok, Thailand



Work Experience:

- **November 1994–February 1995** **Research Assistant**
Center for Applied Economics Research, Faculty of Economics,
Kasetsart University, Bangkok, Thailand
- **February 1995–July 1996** **Research Assistant** Tara Siam Business
Information Ltd., Bangkok, Thailand
- **September 1996–October 1996** **Research Assistant** Department of
Cooperative, Faculty of Economics, Kasetsart University,
Bangkok, Thailand
- **July 1999–September 2000** **Project Manager** Informedia International Ltd.,
Bangkok, Thailand
- **April 2000–December 2002** **Research Assistant** Faculty of Economics,
Chulalongkorn University, Bangkok, Thailand
- **November 2003–January 2005** **Researcher** Institute for Social and
Economic Studies, Dhurakijpundit University, Bangkok, Thailand
- **December 2002–August 2006** **Researcher** Thailand Development
Research Institute, Bangkok, Thailand
- **September 2007–December 2008** **Research Assistant**
Department of Economics, Rutgers University,
New Brunswick, New Jersey, USA
- **July 2009–November 2012** **Research Assistant**
Discipline of Business Analytics, University of Sydney Business School,
New South Wales, Australia
- **February 2013–January 2015** **Lecturer in Statistics**
School of Mathematics and Statistics, University of Canterbury,
Christchurch, New Zealand
- **February 2015–January 2018** **Adjunct Fellow**
School of Mathematics and Statistics and Department of Communication
Disorders, University of Canterbury, Christchurch, New Zealand
- **December 2014–Present** **Research Fellow**
Thailand Development Research Institute, Bangkok, Thailand



PROFESSIONAL MEMBERSHIP/ SOCIAL SERVICES

July 2011–Present Council Committee The young Business and
Industrial Statisticians (y-BIS) in the International Society
for Business and Industrial Statistics (ISBIS)

February 2012–February 2013 Councillor Statistical Society of Australia
Inc., New South Wales Branch

June 2009–June 2011 Fellow Royal Statistical Society, UK

May 2005–March 2006 Assistant Secretary Sub-Committee to Study
Development Approaches for Human Security under National
Reconciliation Commission of Thailand



Honors and Awards

- Dean's Citation Award for Tutoring (Teaching in Tutorials) in Semester 2, 2012 from University of Sydney Business School, awarded in **May 2013**
- SSRN's Top Ten Download List for a Paper Posted under Econometrics: Econometric & Statistical Methods - General eJournal, as of **October 2, 2012**
- Honorable Mention as a Finalist (among Four Finalists) for NISS/ASA Best y-BIS Paper Award 2012 by National Institute of Statistical Sciences and American Statistical Association
- ISBA 2012 World Meeting Junior Travel Award from Japanese Ministry of Education, Science, Sports, Culture and Technology
- Award for Excellence in Postgraduate Research by Statistical Society of Australia, Inc., New South Wales Branch, 2011
- Level I Tutor Certification, Rutgers University, 2008



Scholarships and Grants

- Research Grant (USD 100,000) from Food and Agriculture Organization for the Project Titled "Rice Balance Sheet: An Estimation of Uses of Rice in Thailand", 2015
- Research Grant (10,000 CHF or USD equivalent 11,500) from ETH and Ministry of Education, Switzerland for the Project Titled "Development and Application of Advanced Risk Management Tools for Stabilizing the Economic and Financial System in Thailand", 2015, with Marc Paoletta (PI) and Paul Embrechts
- Postgraduate Research Scholarship for PhD Study from University of Sydney Business School, 2009-2012
- Research Grant (240,000 Baht or USD equivalent 8,000) from the Young Researchers Scheme by Thailand Research Fund for the Project Titled "Competitive Behavior of Thai Commercial Banks", 2004-2005
- Thesis Scholarship from Graduate School of Chulalongkorn University and Ministry of University Affairs, Thailand, 2001
- Tuition, Fees, and Stipend Scholarship from Faculty of Economics, Chulalongkorn University, 1999



Funded Research Projects

- Project Titled "Construction of Rule of Law Index for Thailand", funded by Thailand Institute of Justice (approx. USD 150,000), 2015-2016
- Project Titled "Migrant Workers in Thailand: Trend and Impact on Policy Management", funded by Thailand Research Fund (approx. USD 30,000), 2015-2016
- Project Titled "Police Corruption in Thailand", funded by National Economic and Social Advisory Council (approx. USD 15,000), 2004-2005
- Project Titled "Survey on Chlorouorocarbons Use in Thailand", funded by World Bank (approx. USD 33,000), 1999-2000



PUBLISHED ARTICLES/ DISCUSSION IN REFEREED JOURNALS

- Wichitaksorn, N., Wang, J.J.J., Choy, S.T.B., and Gerlach, R. 2015. Analysing return asymmetry and quantiles through stochastic volatility models using asymmetric Laplace error via uniform scale mixtures. *Applied Stochastic Models in Business and Industry*. 31(5): 584-608.
- Wichitaksorn, N., Choy, S.T.B., and Gerlach, R. 2014. A generalized class of skew distributions and associated robust quantile regression models. *Canadian Journal of Statistics*. 42(4): 579-596.
- Wichitaksorn, N. and Tsurumi, H. 2013. Comparison of MCMC algorithms for the estimation of Tobit model with non-normal error: The case of asymmetric Laplace distribution. *Computational Statistics & Data Analysis*. 67: 226-235. (A ranking journal)
- Choy, S.T.B. and Wichitaksorn, N. 2011. Discussion on Bayesian variable selection for random intercept modeling of Gaussian and non-Gaussian Data. *Bayesian Statistics* 9. 189-191.
- Wichitaksorn, N. 2005. Can Thailand have higher trade with Latin America? *Chulalongkorn Journal of Economics*. 17(2): 197-262.
- Vongvipanond, P. and Wichitaksorn, N. 2004. Thailand's corporate restructuring experience through formal bankruptcy procedures: Economic and legal perspectives. *ASEAN Economic Bulletin*. 21(1): 54-80.

- Wichitaksorn, N. and Choy, S.T.B. 2015. Bayesian Parallel Computation for Intractable Likelihood using Griddy-Gibbs Sampler. In S.K. Upadhyay, U. Singh, D.K. Dey, and A. Loganathan (eds.), *Current Trends in Bayesian Methodology with Applications*, 619-630. Florida: CRC Press, Taylor & Francis Group.
- Wichitaksorn, N. and Choy, S.T.B. 2015. Assessing sectoral risk through skew-error capital asset pricing model: Empirical evidence from Thai stock market. In V.-N. Huynh, V. Kreinovich, S. Sriboonchitta, and K. Suriya, *Econometrics of Risk, Studies in Computational Intelligence Series 583*, 435-447. Switzerland: Springer Verlag.

Refereed Conference Proceeding

- Wichitaksorn, N. and Choy, S.T.B. 2012. Modeling Dependence of Bivariate Seemingly Unrelated Tobit Model through Copula. *Proceedings of the Fourth International Conference of the Thailand Econometric Society*, January 13-14, 2011, Chiang Mai, Thailand.



WORKING PAPERS

- Paoella, M.S., Polak, P., and Wichitaksorn, N. 2016. COBra: Copula-Based Portfolio Optimization.
- Wichitaksorn, N. 2015. Matrix Autoregressive Model with Two Covariance Matrices, under review.
- Wichitaksorn, N., Gerlach, R., and Choy, S.T.B. 2015. Efficient Estimation of Some Elliptical Copula Regression Models through Scale Mixtures of Normal, <http://ssrn.com/abstract=2125587> (NISS/ASA Best y-BIS Paper Finalist), under review.
- Wichitaksorn, N., Choy, S.T.B., and Gerlach, R. 2012. Estimation of Bivariate Copula-based Seemingly Unrelated Tobit Models, <http://ssrn.com/abstract=2122388>.



Academic Publications in Thai

- Wichitaksorn, N. 2006. Thai commercial banks competitive behaviour. *Thammasat Economic Journal*. 24(3): 1-67. (refereed, premier journal)
- Wichitaksorn, N. 2005. Financial Institutions' Behaviour in Thai Economic System. Research report submitted to Thailand Research Fund.
- Vongvipanond, P. and Wichitaksorn, N. 2005. Corporate Reorganization and Debt Restructuring in Thailand. Research report submitted to Dhurakijpundit University.
- Wiboonchutikula, P. and Wichitaksorn, N. 2005. Government policy and industrial development. In *Industrial Economics and Industrial Development*. Teaching material unit no. 9-15. Bangkok: Sukhothai Thammathirat Open University.
- Junanantatham, S., Vongsinsirikul, V., and Wichitaksorn, N. 2004. Police Corruption in Thailand: A Case Study of Five Police Stations in Bangkok. Research report submitted to National Economic and Social Advisory Council. Bangkok: Dhurakijpundit University.
- Wichitaksorn, N. 2004. Latin America: A potential trading partner for Thailand. *Thammasat Economic Journal*. 22(2): 51-114. (refereed, premier journal)
- Siamwalla, A. and Wichitaksorn, A. 2004. Transfers of Private Debt to Public Hand. Research report submitted to Ministry of Finance. Bangkok: Ministry of Finance.
- Vongvipanond, P., Jumpa, M., and Wichitaksorn, N. 2002. The Effects of Reorganization Law and Central Bankruptcy Court on Thai Economic System. Bangkok: Central Bankruptcy Court.
- Wichitaksorn, N. 2002. Trade Opportunity and Obstacle between Thailand and Latin American Countries. M.E. Thesis. Chulalongkorn University, Bangkok. (unpublished)



SELECTED CONFERENCE/ WORKSHOP PRESENTATIONS

- Demand for Rice in Thailand. Talk given at Final Workshop for Agricultural Market Information System Project by Food and Agriculture Organization, November 24, 2015, Bangkok, Thailand (invited).
- MAR2CO: Matrix Autoregressive Model with Two Covariance Matrices. Talk given at Canterbury Statistics Open Day, University of Canterbury, November 12, 2014, Christchurch, New Zealand (invited).
- Efficient Estimation of Some Elliptical Copula Regression Models through Scale Mixtures of Normal. Talk given at Department of Statistics research seminar, University of Auckland, February 13, 2014, Auckland, New Zealand (invited).
- Bayesian Parallel Computation for Intractable Likelihood. Talk given at 2013 Joint NZSA+ORSNZ Conference, November 26, 2013, Hamilton, New Zealand.
- Bayesian Parallel Computation for Intractable Likelihood. Talk given at the Discipline of Business Analytics research seminar, University of Sydney Business School, October 18, 2013, Sydney, Australia (invited).
- Scale Mixtures of Uniform Representation for a Class of Skew Distributions. Talk given at the Department of Mathematics and Statistics primer series, University of Canterbury, September 13, 2013, Christchurch, New Zealand (invited).
- A Generalized Class of Skew Distributions and Parametric Quantile Regression Models. Poster presented at 7th Rimini Bayesian Econometrics Workshop, June 25-26, 2013 Rimini, Italy. Joint work with S.T. Boris Choy and Richard Gerlach.
- A Generalized Class of Skew Distributions and Parametric Quantile Regression Models. Talk given at the Department of Mathematics and Statistics research seminar, University of Canterbury, October 23, 2012, Christchurch, New Zealand. Joint work with S.T. Boris Choy and Richard Gerlach.
- Efficient Estimation of Some Elliptical Copula Regression Models through Scale Mixtures of Normal. Poster presented at the International Society for Bayesian Analysis 2012 World Meeting, June 25-29, 2012, Kyoto, Japan. Joint work with Richard Gerlach and S.T. Boris Choy.
- Bayesian Analysis of Multivariate Regression Model through Elliptical Copulas and Scale Mixtures of Normal. Paper presented at the International Symposium on Business and Industrial Statistics 2012, June 17-21, 2012, Bangkok, Thailand. Joint work with Richard Gerlach and S.T. Boris Choy.
- Modeling Australian Excess Return through Quantile Regression and Asymmetric Laplace Distribution by Scale Mixture of Normals. Paper presented at International Workshop on Statistical Computing in Quantitative Finance and Biostatistics, December 20-21, 2011, Taichung, Taiwan. Joint work with S.T. Boris Choy.
- Bayesian Analysis of Bivariate Seemingly Unrelated Tobit through Copula and Scale Mixture Margins. Poster presented at AFM Smith Conference, June 1-6, 2011, Crete, Greece. Joint work with S.T. Boris Choy.
- Modeling Dependence of Bivariate Seemingly Unrelated Tobit Model through Copula. Paper presented at the Fourth International Conference of the Thailand Econometric Society, January 13-14, 2011, Chiang Mai, Thailand. Joint work with S.T. Boris Choy.
- Bayesian Analysis of Stochastic Volatility Model with Asymmetric Laplace Error through Scale Mixture of Uniform. Poster presented at Bayes on the Beach Conference, October 4-5, 2010, Gold Coast, Australia. Joint work with Joanna J.J. Wang and S.T. Boris Choy.
- A Bayesian Analysis of Tobit Model with Non-Gaussian Error: The Case of Three-Parameter Asymmetric Laplace Distribution. Paper presented at the Business Analytics Discipline Seminar, University of Sydney Business School, April 24, 2009, Sydney, Australia. Joint work with Hiroki Tsurumi.

Editorial Service

-Guest Editor, Special Issue on Financial Econometrics, Econometrics-Open Access Journal

Refereeing

-American Journal of Mathematical and Management Sciences, Australian & New Zealand Journal of Statistics, Computational Statistics, Computational Statistics & Data Analysis, Fluctuation and Noise Letters, Journal of Applied Probability and Statistics, and Journal of Statistical Computation and Simulation