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DEGREES

- | | |
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| 1992 | Ph.D., Statistics, University of Alberta, Canada. |
| 1987 | M.Sc., Applied Statistics, University of Guelph, Canada. |
| 1984 | Diploma, Industrial Statistics, Anhui University of Technology, China. |
| 1983 | B.Eng., Metal Materials, Northeastern University, China. |

RESEARCH INTERESTS

- Spatial Econometrics
- Panel Data Models
- Bootstrap methods for Refined Inferences
- Event Time Analysis

EDITORIAL SERVICE

Co-Editor: [Regional Science and Urban Economics](#), Jan. 2015 – Dec. 2017.

Managing Guest Editor for “*New Advances in Spatial Econometrics: Interactions Matter*”, a Special Issue for Regional Science and Urban Economics, 2016-17, with Guest Editors, Nicolas Bebarsy and Cem Ertur.

Guest Editor for “*Spatial Econometrics: New Methods and Applications*”, a special issue for Regional Science and Urban Economics, 2017-18.

Associate Editor: [Regional Science and Urban Economics](#), Jan. 2018 – Present.

Associate Editor: [Letters in Spatial and Resource Sciences](#), Nov. 2025 - Present

Associate Editor: [Journal of Spatial Econometrics](#), Jan. 2019 – June 2024.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member, [The Econometric Society](#)
- Member, The Spatial Econometrics Association ([SEA](#))
- Member, The American Statistical Association ([ASA](#))
- Life Member, The International Chinese Statistical Association ([ICSA](#))

HONORS, AWARDS, ACHIEVEMENTS

2019 **Fellow** of [Spatial Econometrics Association](#)

- 2017 **Lee Kong Chian Fellow** (1/07/2017--30/06/2021)
- 2015 **Research Excellence Award**, School of Economics, Singapore Management University.
- 2015 **2015 Outstanding Reviewer for Computational Statistics and Data Analysis**
- 2006 **Lee Kuan Yew Fellow for Research Excellence**, Singapore Management University.
- 1998 **Teaching Excellence Award**, 1998, National University of Singapore
- 1998 **Teaching Excellence Award**, 1998, Faculty of Arts and Social Sciences, National University of Singapore

Publications

- [1] Meng, X. Y. and Yang, Z. L. (2026c). Threshold spatial panel data models with fixed effects. **Journal of Econometrics** **257**, 106271, <https://doi.org/10.1016/j.jeconom.2026.106271>.
- [2] Li, L. Y., Miao, K. and Yang, Z. L. (2026). Spatial dynamic panel data models with interactive fixed effects: M-estimation and inference with fixed and relatively small T . **Econometric Review** **45**(2), 112-147 <https://doi.org/10.1080/07474938.2025.2559790>.
- [3] Meng, X. Y. and Yang, Z. L. (2026a). Genuinely unbalanced spatial panel data models: fixed effects M-estimation and inference. **Econometric Review** **45**(4), 537-563. <https://doi.org/10.1080/07474938.2025.2597865>.
- [4] Meng, X. Y. and Yang, Z. L. (2026b). Fixed effects estimation of spatial panel model with missing responses: an application to US state tax competition. **Journal of Business and Economic Statistics** **44**(2), 450-464. <https://doi.org/10.1080/07350015.2025.2539470>.
- [5] Akgun, O., Pirotte, A., Urga, G. and Yang, Z. L. (2024). Equal predictive ability tests based on panel data with applications to OECD and IMF forecasts. **International Journal of Forecasting** **40**(1), 202-228. [10.1016/j.ijforecast.2023.02.001](https://doi.org/10.1016/j.ijforecast.2023.02.001)
- [6] Baltagi, B. H., Deng, Y., Li, J., and Yang, Z. L. (2023). Cities in a pandemic: evidence from China. **Journal of Regional Science** **63**, 379-408. <https://doi.org/10.1111/jors.12626>
- [7] Huang, N. Q. and Yang Z. L. (2021). Spatial dynamic models with short panels: evaluating the impact of home purchase restrictions on housing prices. **Economic Modelling** **103**, 105597. <https://doi.org/10.1016/j.econmod.2021.105597>
- [8] Baltagi, B. H., Pirotte, A. and Yang, Z. L. (2021). Diagnostic tests for homoscedasticity in spatial cross-sectional or panel models. **Journal of Econometrics** **224**(2), 245-270. <https://doi.org/10.1016/j.jeconom.2020.10.002>
- [9] Yang, Z. L. (2021). Joint tests for dynamic and spatial effects in short dynamic panel data models with fixed effects and heteroskedasticity. **Empirical Economics** **60**, 51-92. <https://doi.org/10.1007/s00181-020-01935-y>
- [10] Li, L. Y. and Yang, Z. L. (2021). Spatial dynamic panel data models with correlated random effects. **Journal of Econometrics** **221**(2), 424-454. <https://doi.org/10.1016/j.jeconom.2020.05.016>

- [11] Liu, S. F. and Yang, Z. L. (2020). Robust estimation and inference of spatial panel data models with fixed effects. **Japanese Journal of Statistics and Data Science** 3, 257–311. <https://doi.org/10.1007/s42081-020-00075-y>
- [12] Li, L. Y. and Yang, Z. L. (2020). Estimation of fixed effects spatial dynamic panel data models with small T and unknown heteroskedasticity. **Regional Science and Urban Economics** 81, 103520. [10.1016/j.regsciurbeco.2020.103520](https://doi.org/10.1016/j.regsciurbeco.2020.103520)
- [13] Xu, Y. H. and Yang, Z. L. (2020). Specification tests for temporal heterogeneity in spatial panel data models with fixed effects. **Regional Science and Urban Economics** 81, 103488. [10.1016/j.regsciurbeco.2019.103488](https://doi.org/10.1016/j.regsciurbeco.2019.103488)
- [14] Yang, Z. L. (2019). Editorial introduction to the special issue entitled: Spatial econometrics: New methods and applications. **Regional Science and Urban Economics** 76, 1. [10.1016/j.regsciurbeco.2019.05.003](https://doi.org/10.1016/j.regsciurbeco.2019.05.003)
- [15] Yang, Z. L. (2018). Bootstrap LM tests for higher order spatial effects in spatial linear regression models. **Empirical Economics** 55, 35–68. <https://doi.org/10.1007/s00181-018-1453-4>
- [16] Debarsy, N., and Yang, Z. L. (2018). Editorial for the special issue entitled: New advances in spatial econometrics: Interactions matter. **Regional Science and Urban Economics** 72, 1-5. [10.1016/j.regsciurbeco.2018.02.004](https://doi.org/10.1016/j.regsciurbeco.2018.02.004)
- [17] Yang, Z. L. (2018). Unified M-estimation of fixed-effects spatial dynamic models with short panels. **Journal of Econometrics** 205(2), 423-446. <https://doi.org/10.1016/j.jeconom.2017.08.019>
- [18] Su, L. J. and Yang, Z. L. (2018). Asymptotics and bootstrap for random-effects panel data transformation models. **Econometric Reviews** 37(6), 602-625. <https://doi.org/10.1080/07474938.2015.1122235>
- [19] Shen, Y. and Yang, Z. L. (2017). Improved likelihood inferences for Weibull regression model. **Journal of Statistical Computation and Simulation** 87, 2349-2371. <https://doi.org/10.1080/00949655.2017.1331441>
- [20] Yang, Z. L., Yu, J. H, and Liu, S. F. (2016). Bias correction and refined inferences for fixed effects spatial panel data models. **Regional Science and Urban Economics** 61, 52-72. [10.1016/j.regsciurbeco.2016.08.003](https://doi.org/10.1016/j.regsciurbeco.2016.08.003)
- [21] Desmond, A. F. and Yang, Z. L. (2016). Asymptotically refined score and GOF tests for inverse Gaussian models. **Journal of Statistical Computation and Simulation** 86, 3243-3269. <https://doi.org/10.1080/00949655.2016.1158819>
- [22] Liu, S. F. and Yang, Z. L. (2015). Improved Inferences for spatial regression models. **Regional Science and Urban Economics** 55, 55-67. [10.1016/j.regsciurbeco.2015.08.004](https://doi.org/10.1016/j.regsciurbeco.2015.08.004)
- [23] Liu, S. F. and Yang, Z. L. (2015). Asymptotic distribution and finite-sample bias correction of QML estimators for spatial error dependence Model. **Econometrics**, 3(2), 376-411. <https://doi.org/10.3390/econometrics3020376>
- [24] Liu, S. F. and Yang, Z. L. (2015). Modified QML estimation of spatial autoregressive models with unknown heteroskedasticity and normality. **Regional Science and Urban Economics**, 52, 50-70. [10.1016/j.regsciurbeco.2015.02.003](https://doi.org/10.1016/j.regsciurbeco.2015.02.003)
- [25] Yang, Z. L. (2015). LM tests of spatial dependence based on bootstrap critical values. **Journal of Econometrics** 185, 33-39.
- [26] Su, L. J. and Yang, Z. L. (2015). QML estimation of dynamic panel models with spatial errors. **Journal of Econometrics** 185(1), 230-258. <https://doi.org/10.1016/j.jeconom.2014.10.005>

- [27] Yang, Z. L. (2015). A general method for third-order bias and variance correction on a nonlinear estimator (former title: Bias-corrected estimation for spatial autocorrelation). **Journal of Econometrics** 186(1), 178-200. <https://doi.org/10.1016/j.jeconom.2014.07.003>
- [28] Shen, Y. and Yang, Z. L. (2015). Bias-correction for Weibull common shape estimation. **Journal of Statistical Computation and Simulation** 85(15), 3017-3046. <https://doi.org/10.1080/00949655.2014.949714>
- [29] Baltagi, B. H. and Yang, Z. L. (2013). Standardized LM tests for spatial error dependence in linear or panel regressions. **Econometrics Journal** 16(1), 103-134. <https://doi.org/10.1111/j.1368-423X.2012.00385.x>
- [30] Baltagi, B. H. and Yang Z. L. (2013). Heteroskedasticity and non-normality robust LM tests of spatial dependence. **Regional Science and Urban Economics** 43(5), 725-739. [10.1016/j.regsciurbeco.2013.05.001](https://doi.org/10.1016/j.regsciurbeco.2013.05.001)
- [31] Desmond, A. F. and Yang, Z. L. (2011). Score tests for inverse Gaussian mixture. **Applied Stochastic Models in Business and Industry** 27(6), 633-648. <https://doi.org/10.1002/asmb.876>
- [32] Yang, Z. L. and Huang, J. H. (2011). A transformed random effects model with applications. **Applied Stochastic Models in Business and Industry** 27(3), 222-234. <https://doi.org/10.1002/asmb.822>
- [33] Yang, Z. L., Gan, L. and Tang F. F. (2010). A study of price evolution in online toy market. **Economics: The Open Access, Open-Assessment E-Journal**, Vol. 4. [10.5018/economics-ejournal.ja.2010-28](https://doi.org/10.5018/economics-ejournal.ja.2010-28)
- [34] Yang, Z. L. (2010). A robust LM test for spatial error components. **Regional Science and Urban Economics** 40(5), 299-310. [10.1016/j.regsciurbeco.2009.10.001](https://doi.org/10.1016/j.regsciurbeco.2009.10.001)
- [35] Yang, Z. L. and Tse, Y. K. (2008). Generalized LM tests for functional form and heteroscedasticity. **Econometrics Journal** 11(2), 349-376. <https://doi.org/10.1111/j.1368-423X.2008.00242.x>
- [36] Yang, Z. L., Wu, E. K. H. and Desmond, A. F. (2008). Inference for general parametric functions in Box-Cox-type transformation models. **Canadian Journal of Statistics** 36(2), 301-319. <https://doi.org/10.1002/cjs.5550360208>
- [37] Yang, Z. L. and Lin, K. J. (2007). Improved maximum-likelihood estimation for the common shape of several Weibull distributions. **Applied Stochastic Models in Business and Industry** 23(5), 373-383. <https://doi.org/10.1002/asmb.678>
- [38] Yang, Z. L. and Tse, Y. K. (2007). A corrected plug-in method for quantile interval construction through a transformed regression. **Journal of Business and Economic Statistics** 25(3), 356-376. <https://doi.org/10.1198/073500106000000684>
- [39] Yang, Z. L., Tse, Y. K. and Bai, Z. D. (2007). Statistics with estimated parameters. **Statistica Sinica** 17(2), 817-837. <https://www.jstor.org/stable/24307745>
- [40] Yang Z. L., Xie, M. and Wong, A. C. M. (2007). A unified confidence interval for reliability related Weibull quantities. **Journal of Statistical Computation and Simulation** 77(5), 365-378. <https://doi.org/10.1080/00949650701227452>
- [41] Yu, J., Yang, Z. L. and Zhang, X. B. (2006). A class of nonlinear stochastic volatility models and its implications on pricing currency options. **Computational Statistics and Data Analysis** 51(4), 2218-2231. <https://doi.org/10.1016/j.csda.2006.08.024>
- [42] Yang, Z. L. (2006). A modified family of power transformations. **Economics Letters**, 92(1), 14-19. <https://doi.org/10.1016/j.econlet.2006.01.011>

- [43] Xing, X. L., Yang, Z. L. and Tang, F. F. (2006). A comparison of time-varying online price and price dispersion between multichannel and Dotcom DVD retailers. **Journal of Interactive Marketing** 20(2), 3-10. <https://doi.org/10.1002/dir.20058>
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- [46] Koh, W. T.H. Yang, Z. L. and Zhu, L. J (2006). Lottery rather than waiting-line auction. **Social Choice and Welfare** 27, 289-310. <https://doi.org/10.1007/s00355-006-0134-y>
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- [55] Yang, Z. L. (2002). Comment on "Box-Cox transformation in linear models: large sample theory and tests of normality" by Chen, G., Lockhart, R. A. and Stephens, M. A. **Canadian Journal of Statistics** 30(2), 222-226. <https://doi.org/10.2307/3315946>Digital Object Identifier (DOI)
- [56] Yang, Z. L. (2002). Median estimation through a regression transformation. **Canadian Journal of Statistics** 30(2), 235-242. <https://doi.org/10.2307/3315949>
- [57] Yang, Z. L., Xie, M., Kuralmani, V. and Tsui, K.L. (2002). On the performance of geometric chart with estimated control limits. **Journal of Quality Technology** 34(4), 448-458. <https://doi.org/10.1080/00224065.2002.11980176>
- [58] Yang, Z. L., See, S. P. and Xie, M. (2002). An investigation of transformation-based prediction interval for the Weibull median life. **Metrika** 56, 19-29. <https://doi.org/10.1007/s001840100151>

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- [65] Yang, Z. L. (1999). Maximum likelihood predictive densities for the inverse Gaussian distribution with application to reliability and lifetime predictions. ***Microelectronics Reliability* 39**(9), 1413-1421. [10.1016/S0026-2714\(99\)00085-2](https://doi.org/10.1016/S0026-2714(99)00085-2)
- [66] Yang, Z. L. (1999). Predicting a future lifetime through Box-Cox transformation. ***Lifetime Data Analysis* 5**, 265-279. <https://doi.org/10.1023/A:1009676116509>
- [67] Yang, Z. L. (1999). Estimating transformation and its effects on Box-Cox *T*-ratio. ***Test* 8**, 167-190. <https://doi.org/10.1007/BF02595868>
- [68] Yang, Z. L. (1998). An alternative approximation to the variance of transformation Score. ***Journal of Statistical Computation and Simulation* 62**, 181-188.
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- [70] Yang, Z. L. (1998). On robustness of usual confidence region under transformation misspecification. ***Journal of Statistical Computation and Simulation* 61**(1-2), 175-190. <https://doi.org/10.1080/00949659808811930>
- [71] Hooper, P. M. and Yang, Z. L. (1997). Confidence intervals following Box-Cox transformation. ***Canadian Journal of Statistics* 25**(3), 401-416. <https://doi.org/10.2307/3315787>Digital Object Identifier (DOI)
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- [73] Yang, Z. L. (1996). Some asymptotic results on Box-Cox transformation methodology. ***Communications in Statistics, Theory and Methods* 25**(2), 403-415. <https://doi.org/10.1080/03610929608831703>
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Articles in Review Process

- [1] Akgun, O., Pirotte, A., Urga, G., and Yang, Z. (2025). Testing clustered equal predictive ability with unknown clusters. **Quantitative Economics**, *under review*.
- [2] Pirotte, A. and Yang, Z. L. (2025). Multi-dimensional spatial panel data models with fixed effects: formulation, estimation, and inference. **Econometric Review**, *under review*.
- [3] Li, L. Y., Meng, X. Y., and Yang, Z. L. (2025). Dynamic spatial panel data models with fixed effects: alternative methods and application. **Spatial Economic Analysis**, *under review*.

Working Papers

- [1] Pao-Li Chang, Ryo Makioka, Bo Lin Ng, and Zhenlin Yang (2025). Estimating firm-level production functions with spatial dependence in output, input, and productivity.
- [2] Zhang, W., Yang, Y., and Yang Z. (2024). Dynamic credit risk spread in multi-layer networks.
- [3] Pirotte, A. and Yang, Z. L. (2024). Identification and estimation of space or time invariant covariates effects in multi-dimensional panels with fixed effects.
- [4] Meng, X. Y. and Yang, Z. L. (2026). Identification and estimation of endogenous and dynamic social effects with network panels.
- [5] Liu, S. F. and Yang, Z. L. (2022). Heteroskedasticity robust estimation and testing for higher-order spatial autoregressive models.
- [6] Xu, Y. H. and Yang, Z. L. (2022). Adjusted quasi score estimation of spatial panel data models with time-varying coefficients.
- [7] Yang, Z. L. (2022). Initial condition free and heteroskedasticity robust estimation and inferences for dynamic panel data models.
- [8] Wu, Y. F. and Yang. Z. L. (2022). Analysis of large real estate prices data: a high-order spatiotemporal autoregression approach.

Conference Proceedings & Book Reviews

- [1] Yang, Z. L. (2007). Modelling spatial dependence and social interactions. *Knowledge Hub, Singapore Management University*.
- [2] Yu, J. and Yang, Z. L. (2006). A class of nonlinear stochastic volatility models. *Proceedings of the [5th International Conference on Computational Intelligence in Economics and Finance](#)*
- [3] Su, L. J. and Yang, Z. L. (2006). QML estimation of dynamic panel data models with spatial errors. *Proceedings of the 3rd Singapore Econometrics Study Group Meeting*.
- [4] Yang, Z. L. (2005). Review of "Theory of Regular Economies, by Ryo Nagata, 2004, World Scientific Publishing, Singapore", *The Singapore Economic Review*, 50, 289-291.
- [5] Yang, Z. L., Prediction intervals for the inverse Gaussian distribution with Applications to Lifetime Data. *Proceedings of the International Workshop on RELIABILITY MODELLING AND ANALYSIS – From Theory to Practice, 1998*. M. Xie and D. N. P. Murthy edited, p81-88. *National University of Singapore*.

Unpublished Working Papers

- [1] Yang, Z. L. and Shen, Y. (2011). A simple and reliable method of inference for spatial autoregressive model. (revised version: 2014).
- [2] Yang Z. L., Xing, X. L., Babin, B. and Tang F. F. (2008). Price evolution in online video and DVD markets.
- [3] Su, L. J. and Yang, Z. L. (2007). Instrumental variable quantile estimation of spatial autoregressive models. (revised versions: 2011, 2012).
- [4] Yang, Z. L. (2006). Joint modelling and testing for local and global spatial externalities.
- [5] Yang, Z. L. (2005). Quasi-maximum likelihood estimation of spatial panel data regression.
- [6] Xing, X. L. and Yang Z. L. (2005). Determinants of job turnover intentions: evidence from Singapore.
- [7] Yang, Z. L. (2004). Trans-normal distribution: a flexible model for duration and event-time data.
- [8] Yang Z. L. (2003). Fiducial predictive densities and econometric duration analysis.
- [9] Yang Z. L. (2002). Monitoring process variability with symmetric control limits.
- [10] Yang Z. L. (2000). On the proper use of Box-Cox transformation method: a note on a Taguchi case study.
- [11] Yang Z. L. (1992). Inference following Box-Cox transformation. PhD Thesis, University of Alberta, Canada.

ACADEMIC VISITS

- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), May-June, 2026.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), May-June, 2025.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), May-June, 2024.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), May-June, 2023.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), May-June, 2022.
- Visiting Professor: Dept. of Mathematics and Statistics, University of Guelph, Canada, Nov. 2019.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), May-June, 2019.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), June, 2018.
- Visiting Professor: Northeastern University, Shenyang, China, Oct., 2017.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), May, 2017.
- Visiting Professor: Northeastern University, Shenyang, China, Dec., 2016.
- Visiting Professor: CRED, University of Pantheon-Assas (Paris II), June, 2016.
- Visiting Professor: Dept. of Mathematics and Statistics, University of Guelph, Canada, Oct. 2014.
- Dept. of Statistics, Korea University, May 2007.

- Dept. of Econometrics and Business Statistics, Monash University, Australia, July 2004.
- Dept. of Statistics, Chinese U. of Hong Kong, Hong Kong, China, April 2004.
- Dept. of Marketing, Chinese U. of Hong Kong, Hong Kong, China, Feb. 2004.
- Dept. of Marketing, Chinese U. of Hong Kong, Hong Kong, China, Dec. 2003.
- Dept. of Mathematics and Statistics, University of Guelph, Canada, Sept.-Oct. 2003.

KEYNOTE, INVITED TALKS & DISCUSSIONS

1. (Dynamic) Spatial Panel Data Models with Unobserved Heterogeneity: Unbalancedness, Missingness, and Imputation. *Invited talk at the joint conference: 20th World Conference of the Spatial Econometrics Association; 24th International Workshop in Spatial Econometrics and Statistics, University Paris Pantheon-Assas, June 17-18, 2026.*
2. Identification and estimation of endogenous and dynamic social effects with network panels. *Invited talk at Melbourne Workshop on Spatial and Spatial-Temporal Data Analysis, Melbourne Business School, July 21, 2025.*
3. Identification and estimation of endogenous social effects: a spatial panel data approach. **Keynote lecture** for the 2023 National Quantitative Economics Doctoral Forum, Xiamen University, Xiamen, China, December 16-17, 2023.
4. A spatial panel data model for the identification and estimation of endogenous social effects. *Invited talk at 6th International Conference on Econometrics and Statistics (EcoSta2023), Waseda University, Tokyo, Japan, August 1-3, 2023.*
5. Dynamic spatial panel data models with interactive fixed effects: M-estimation and inference with fixed and relatively small T . *Invited talk at International Symposium on Advance in Panel Data and Time Series Econometrics in Honor of Professor Cheng Hsiao. Xiamen University, China, July 8-9, 2023.*
6. Dynamic spatial panel data models with interactive fixed effects: M-estimation and inference with fixed and relatively small T . **Keynote speech** at SEW2023: 21st International Workshop on Spatial Econometrics and Statistics. University of Burgundy, Dijon, France, May 25-26, 2023.
7. Spatial dynamic panel data models with interactive fixed effects: M-estimation and inference with small T . *Invited talk at Cardiff University, UK, October 29, 2021.*
8. Robust estimation of spatial panel data models with time varying coefficients. *Invited talk at WISE, Xiamen University, China, July 16, 2021.*
9. Unbalanced panel data models with fixed effects. *Invited talk at WISE, Xiamen University, China, July 12, 2021.*
10. Spatial dynamic panel data models with small T : theory and applications. *Invited talk at University of Illinois at Urbana-Champaign, US, Nov. 22, 2019.*
11. Adjusted quasi score estimation of structural parameters in the presence of incidental parameters. **Plenary Lecture** at the XIII Conference of Spatial Econometrics Association, Pittsburgh, US, Nov. 14-15, 2019
12. Adjusted quasi score estimation of structural parameters in the presence of incidental parameters. *Invited talk at the 2019 Shanghai Workshop of Econometrics, Shanghai University of Finance and Economics, Shanghai, China, June 23-24, 2019.*

13. Unbalanced spatial panel data models with fixed effects. *Invited Talk at the 2019 Asia Meeting of the Econometric Society, Xiamen University, China, June 14-16, 2019.*
14. Specification tests for time-heterogeneity in spatial panel data models with fixed effects. *Invited Talk at the Tohoku University, Japan, Dec. 20, 2018.*
15. Spatial dynamic panel data models with small T : theory and application. **Keynote Speech** at the *Conference on the Frontiers of New Economic Geography, School of Economics and Management, Southeast University, Nanjing, China, Nov. 17-18, 2018.*
16. Diagnostic tests for homoscedasticity in spatial cross-sectional or panel models. *Invited Talk at the Audit University, Nanjing, China, Nov. 16, 2018.*
17. Spatial dynamic panel data models with correlated random effects. **Keynote Speech** at the *8th Shanghai Econometrics Workshop, School of Economics, SUFE, Shanghai, China, June 18-19, 2018.*
18. Bootstrap LM tests for higher order spatial effects in spatial linear regression models. *Invited talk at Northeastern University, Shenyang, China, 11 Oct., 2017.*
19. Discussion on “Can lending constraints cool a housing boom? Lu Han, University of Toronto”. *Invited discussion at the IRES Symposium: Housing Market and the Macro Economy, National University of Singapore, 19-20, May, 2017.*
20. Joint M-tests for dynamic and spatial effects in short panel data models with fixed effects and unknown heteroskedasticity. *Invited talk at the 2nd Econometrics Workshop at the Chinese University of Hong Kong, 29 April 2017.*
21. Unified M-estimation of fixed effects spatial dynamic models with short panels. *Invited talk at Northeastern University, Shenyang, China, Dec. 12, 2016.*
22. Initial-Condition Free Estimation of Fixed Effects Dynamic Panel Data Models with Non-Spherical Errors. *Invited talk at the 6th Shanghai Econometrics Workshop, School of Economics, SUFE, Shanghai, China, June 22-23, 2016.*
23. Unified M-estimation of fixed effects spatial dynamic models with short panels. *Invited talk at Shanghai University of Finance and Economics, China, 6 May 2015.*
24. LM tests of spatial dependence based on bootstrap critical values. *Invited talk at University of Guelph, Canada, 22 October 2014.*
25. A simple and robust method of inference for spatial Autocorrelation. *Invited Seminar at the Division of Economics, Nanyang Technological University, Singapore, 3 November 2010.*
26. Instrumental variable quantile estimation of spatial autoregressive models (with Liangjun Su). *Contributed talk at the Far Eastern and South Asian Meeting of Econometric Society, 16-18 July 2008; Invited talk at the Conference in Honor of Professor Bai Zhidong on his 65th Birthday, 20 July 2008*
27. Spatial dependence, functional-form selection, and dynamic effects in panel models. *Invited talks at Department of Economics, Korea University, 21 May 2007; and School of Economics, Yonsei University, South Korea, 22 May 2007.*
28. Asymptotics and bootstrap for transformed panel data regressions. *Invited talk at the Department of Statistics, Korea University, 18 May 2007.*
29. A transformed random effects model with applications. *Invited talk at the Division of Economics, Nanyang Technological University, Singapore, 31 January 2007.*

CONFERENCE PRESENTATIONS & DISCUSSIONS

1. Identification and estimation of endogenous and dynamic social effects with network panels. *Contributed talk at MPSS (Monash-Princeton-SJTU-SMU) Conference in Econometrics 2025, Monash University, August 11-12, 2025.*
2. Identification and estimation of endogenous and dynamic social effects with network panels. *Contributed talk at 23rd International Workshop on Spatial Econometrics and Statistics SEW 2025: Saint-Étienne, France, June 4-6, 2025*
3. Multi-dimensional spatial panel data models with fixed effects: formulation, estimation and inference. *Contributed talk at 7th International Conference on Econometrics and Statistics, Beijing Normal University, Beijing, China, July 17-19, 2024.*
4. Adjusted quasi score estimation of panel data models with time-varying covariate and spatial effects. *Contributed talk at XVIII World Conference of the Spatial Econometrics Association, Groningen, the Netherlands, June 24-25, 2024.*
5. Analysis of large real estate prices data: a high-order spatiotemporal autoregression approach. *Contributed talk at the 22nd International Workshop in Spatial Econometrics and Statistics, Grenoble, France, May 23-24, 2024.*
6. Heteroskedasticity robust estimation and testing for high order spatial autoregressive models. *Contributed talk at the 18th International Workshop on Spatial Econometrics and Statistics, Paris, 23-24 May 2019.*
7. Discussion on “Credit market spillovers: evidence from a syndicated loan market network, Abhimanyu Gupta, Sotirios Kokas, and Alexander Michaelides, University of Essex”, *at the 18th International Workshop on Spatial Econometrics and Statistics, Paris, 23-24 May 2019.*
8. Diagnostic tests for homoscedasticity in spatial cross-sectional or panel models. *Contributed talk at the XII World Conference of the Spatial Econometrics Association, Vienna, June 11-12, 2018.*
9. Discussion on “Spatial autoregression with non-summable weight matrices – improving asymptotic analysis of Gaussian QML estimators, Jakub Olejnik, University of Lodz, Poland”, *at the XII World Conference of the Spatial Econometrics Association, Vienna, June 11-12, 2018.*
10. Bootstrap LM tests for higher order spatial effects in spatial linear regression models. *Contributed talk at the XI World Conference of the Spatial Econometrics Association, Singapore, June 13-15, 2017.*
11. Discussion on “Obtaining spatial data through attribute sampling – a new method to identify rare events when there is no data, Qian Guo, University of London”, *at the XI World Conference of the Spatial Econometrics Association, Singapore, June 13-15, 2017.*
12. Initial-condition free estimation of fixed effects dynamic panel data models with non-spherical errors. *Contributed talk at the X World Conference of the Spatial Econometrics Association, Rome, Italy, June 13-15, 2016.*
13. Discussion on “Testing for serial correlation in spatial panels, by Giovanni Millo”, *at the X World Conference of the Spatial Econometrics Association, Rome, Italy, June 13-15, 2016.*
14. Unified M-estimation of fixed effects spatial dynamic models with short panels. *Invited talk at CRED, University of Pantheon-Assas (Paris II), 6 June 2016.*
15. Joint tests for dynamic and spatial effects in short panel data models with fixed effects. *Contributed talk at the 15th International Workshop on Spatial Econometrics and Statistics, Orleans, 27-28 May 2016.*

16. Discussion on "Dynamic spatial panel data model with spatial moving average errors, Badi Baltagi, Bernard Fingleton and Alain Pirotte", *at the 15th International Workshop on Spatial Econometrics and Statistics, Orleans, 27-28 May 2016.*
17. Initial-condition free estimation of fixed effects dynamic panel data models with non-spherical errors. *Contributed talk at the 2016 Tripartite Conference (Hiroshima University, Hiroshima University of Economics, and Singapore Management University).*
18. Improved inferences for spatial regression models. *Contributed talk at the 14th International Workshop on Spatial Econometrics and Statistics, Paris, 27-28 May 2015.*
19. Discussion on "Non-nested testing of spatial correlation, Miguel A. Delgado and Peter M. Robinson", *at the 14th International Workshop on Spatial Econometrics and Statistics, Paris, 27-28 May 2015.*
20. Unified M-estimation of fixed effects spatial dynamic models with short panels. *Contributed talk at The VIII World Conference of the Spatial Econometrics Association, Zurich, 11-13 June 2014.*
21. Unified QML estimation of dynamic models with short panels. *Contributed talk at the Asia Meeting of the Econometric Society, Singapore, 2-4 August 2013.*
22. QML estimation of dynamic panel data models with spatial errors. *Contributed talk at the 18th International Panel Data Conference, Paris, 5-6 July 2012.*
23. LM tests of spatial dependence based on bootstrap critical values. *Contributed talk at Tsinghua International Conference for Econometrics, Beijing, 15-16 May 2012.*
24. A general method for third-order bias and variance corrections for a nonlinear parameter. *Contributed talk at SETA 2012, Shanghai, 19-21 May 2012.*
25. Standardized LM tests for spatial error dependence in linear or panel regressions. *Contributed Talk at the 2011 Asian Meeting of the Econometrics Society, Seoul, 11-13 August 2011.*
26. LM tests of spatial dependence based on bootstrap critical values. *Contributed talk at the Vth World Conference of the Spatial Econometrics Association, Toulouse, 6-8 July 2011.*
27. Discussion on: "On the application of bootstrap methods in spatial econometric models, by Gianfranco Piras and Lozano-Gracia Nancy", *at the Vth World Conference of the Spatial Econometrics Association, Toulouse, 6-8 July 2011.*
28. Bias-corrected estimation for spatial autocorrelation. *Contributed talk at the IVth World Conference of the Spatial Econometrics Association, Chicago, 9-12 June 2010.*
29. Discussion on "Pseudo GLS regression estimation with spatial data, by Cuicui Liu", *at the IVth World Conference of the Spatial Econometrics Association, Chicago, 9-12 June 2010.*
30. Bias-corrected estimation for spatial autocorrelation. *Invited Seminar at the School of Economics, Singapore Management University, 23 October 2009.*
31. Tests for spatial dependence under distributional misspecifications. *Contributed talk at the II World Conference of the Spatial Econometrics Association, New York, 17-19 Nov 2008.*
32. Discussion on "More efficient estimation of the spatial error components model, by Fernando Carriazo and Edward Coulson", *at the II World Conference of the Spatial Econometrics Association, New York, 17-19 Nov 2008.*

33. Asymptotics and bootstrap for transformed panel data regressions (with Liangjun Su). *Contributed talk at the 14th International Conference on Panel Data, WISE, Xiamen University, China, 16-18 July 2007.*
34. Instrumental variable quantile estimation of spatial autoregressive Models (with Liangjun Su). *Contributed talk at the 1st World Conference of the Spatial Econometrics Association, University of Cambridge, 11-14 July 2007.*
35. A transformed random effects model with applications (with Jianhua Huang). *Contributed talk at The Third Symposium on Econometric Theory and Applications, Hong Kong University of Science and Technology, 13-15 April 2007.*
36. Quasi-maximum likelihood estimation for spatial panel data regressions. *Contributed talk at the Far Eastern Meeting of The Econometric Society 2006 (FEMES 2006), Tsinghua University, Beijing, China, July 10-12, 2006.*
37. QML Estimation of Dynamic Panel Data Models with Spatial Errors (with Liangjun Su). *Contributed talk at the Singapore Econometric Study Group (SESG) Meeting, Singapore Management University, 8 July 2006.*
38. Joint modelling and testing for local and global spatial externalities. *Contributed talk at the International Workshop on Spatial Statistics and Econometrics, Luiss Business School, Rome, Italy, 25-27 May 2006.*
39. Discussion on "Externalities and the industry life cycle: A long-term perspective on regional growth in Great Britain, By F. M. H. Neffke, F. G., Van Oot, and R. A. Boschma". *Invited discussion at the International Workshop on Spatial Statistics and Econometrics, Luiss Business School, Rome, Italy, 25-27 May 2006.*
40. Quasi-maximum likelihood estimation for spatial panel data regressions. *Contributed talk at the Spatial Econometrics Workshop, Kiel Institute for World Economics, Kiel, Germany, 8-9 April 2005.*
41. Discussion on "A spatial error components model with both local and global externalities, by V. D. Giacinto". *Invited discussion at the Spatial Econometrics Workshop, Kiel Institute for World Economics, Kiel, Germany, 8-9 April 2005.*
42. Statistics with estimated parameters (with Y. K. Tse and Z. D. Bai). *Contributed talk at the 6th ICSA International Conference, 21-23 July 2004, Singapore.*
43. Modeling firm-size distribution using Box-Cox heteroscedastic regression (with Y. K. Tse). *Invited talk at the Department of Econometrics and Business Statistics, Monash University, 13 July 2004.*
44. Tests of functional form and heteroscedasticity (with Y. K. Tse). *Contributed paper at the Econometric Society Australasian Meeting (ESAM2004), Melbourne, 7-9 July 2004.*
45. On the asymptotic effect of substituting estimators for nuisance parameters in inferential statistics (with Y. K. Tse and Z. D. Bai). *Invited talk at the Department of Statistics, the Chinese University of Hong Kong, 28 April 2004.*
46. Score tests for inverse Gaussian mixture. *Contributed talk at the Bernoulli Society East Asian and Pacific Regional (EAPR) Conference 2003, Hong Kong, 18-20 December 2003.*
47. Simple inference methods based on Weibull to exponential transformation. *Invited paper at the 5th ICSA International Conference, Hong Kong, 16-19 August 2001.*
48. An S-chart based on an optimal normalizing transformation. *Invited paper at the International Conference on Statistics in the 21st Century, University of Maine, USA, 29 June - 1 July 2000.*

49. Predicting a future lifetime through Box-Cox transformation. *Invited paper at the 4th ICSA International Conference, Kunming, China, 19-21 August 1998.*
50. Box-Cox transformation and its role in Taguchi method. *Invited Paper at Industrial Statistics Workshop, National University of Singapore, 17 February 1997.*

RESEARCH GRANTS

- (1) MOE AcRF Tier 3 (2025), Grant MOET32024-0006: "Role of Firm-to-Firm Input-Output Linkages in Transmitting Aggregate Shocks: Impacts on Firm-Level Productivity, Labor Demand, and Innovation", **Collaborator**.
- (2) Research Grant from China State Administration of Foreign Experts Affairs (中国国家外国专家局) (2024): "Research on the operating efficiency, cross-border risk contagion and financial security of China's bond market under the high level financial opening environment", **Foreign Expert** (Lead PI: Weiping Zhang from Shandong University).
- (3) Research Grant from China State Administration of Foreign Experts Affairs (中国国家外国专家局) (2024): "Research on the mechanism and risk prevention of digital intelligence technology enabling low-carbon transformation of traditional manufacturing industry in Northeast China", **Foreign Expert** (Lead PI: Jian WANG)
- (4) MOE AcRF Tier 1 (2016), Grant No. C244/MSS16E003: "Inferences for Spatial Dynamic Panel Data Models with Applications", **PI**.
- (5) MOE AcRF Tier 1 (2014), Grant No. C244/MSS14E002: "Joint Tests for Dynamic and Spatial Effects in Panel Data Models with Fixed Effects", **PI**.
- (6) MOE AcRF Tier 1 (2013), Grant No. C244/MSS12E007: "Unified Estimation of Dynamic Models with Short Panels", **PI**.
- (7) MOE AcRF Tier 1 (2011), Grant No. C244/MSS11E006: "Heteroscedasticity and Non-normality Robust LM Tests of Spatial Dependence", **PI**.
- (8) MOE AcRF Tier 1 (2010), Grant No. C244/MSS10E007: "Tests of Spatial Effects based on Bootstrapped Critical Values", **PI**.
- (9) MOE AcRF Tier 1 (2009), Grant No. C244/MSS9E005: "Bias-Corrected Estimation for Spatial Autocorrelation", **PI**.
- (10) MOE AcRF Tier 1 (2008), Grant No. C244/MSS8E010: "Robust LM Tests for Spatial Error Dependence" **PI**.
- (11) MOE AcRF Tier 1 (2007), Grant No. C244/MSS7E005: "Bootstrap Estimate of Variance-Covariance Matrix for Box-Cox Type Panel Data Models" **PI**.
- (12) MOE AcRF Tier 1 (2006), Grant No. 06-C208-SMU-029: "Quantile Regression with Flexible Functional Form Transformations" **PI**.
- (13) MOE AcRF Tier 1 (2005), Grant No. C208/MSS5E013: "On Joint Modelling and Testing for Local and Global Spatial Externalities Based on Panel Data" **PI**.
- (14) MOE AcRF Tier 1 (2004), Grant No. C208/MSS4E013: "Bounds on Event Probabilities for Duration and Lifetime Models", **PI**.
- (15) Wharton-SMU Research Center Research (2004), Grant No. C208/MS63E046: "Analysis of Price, Price Dispersion and Market Dynamics in Online Markets Using Panel Data", **PI**.
- (16) MOE AcRF Tier 1 (2004), Grant No. C208/MSS3E110: "Functional Panel Data Regression with Spatial Error Correlation", **PI**.

- (17) MOE AcRF Tier 1 (2003), Grant No. C208/MSS3E048: "Data Transformation and High-Frequency Data: Some Issues in Econometric and Financial Modeling", **PI**.
- (18) "Time Series Analysis to Determine the Inter-relationship between Vectorial, Environmental and Epidemiological Factors in the Transmission of Dengue for the Formulation of Forecasting Models", Ministry of Environment, Singapore, 2001-2002, **Collaborator**.
- (19) "Reliability Analysis by using Degradation Data" (with Z. H. Chen as PI). National University of Singapore, 2001–2003, **Collaborator**.
- (20) "Extended Linear Modelling for Survival and Economic Data" (with Y. K. N. Truong as PI), National University of Singapore, 1998–2001, **Collaborator**.

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

- Supervisor, "Externalities in Housing Market and Agglomeration Economics", Dissertation by **Yifan WU**, PhD in Economics, Singapore Management University, 2022.
- Supervisor, "Spatial Panel Data Models: Unbalanced Panels, Threshold Effects and Network Effects", Dissertation by **Xiaoyu Meng**, PhD in Economics, Singapore Management University, 2022.
- Supervisor, "Spatial Panel Data Models with Temporal Heterogeneity", Dissertation by **Yuhong XU**, PhD in Economics, Singapore Management University, 2020.
- Supervisor, "Spatial Dynamic Panel Data Models with Small T", Dissertation by **Liyao LI**, PhD in Economics, Singapore Management University, 2019.
- Supervisor, "On Refined and Robust Inferences for Spatial Regression Models", Dissertation by **Shew Fan LIU**, PhD in Economics, Singapore Management University, 2016.
- Supervisor, "Effect of Estimation and Transformation on Control Charts", Thesis by **Wanhua SU**, Master in Statistics, National University of Singapore, 2002.
- Supervisor, "Data Transformation in the Analysis of Lifetime Data", Thesis by **Jianfeng XU**, Master in Statistics, National University of Singapore, 2002.
- Supervisor, "Simple Prediction Intervals for the Weibull Distribution", Thesis by **Peen Peen SEE**, Master in Statistics, National University of Singapore, 2000.

Theses and Dissertations Assessed

- Committee Member, "Essays on Estimation Firm-Level Production Functions with Spatial Dependence", Dissertation by Ng Bo Lin, PhD in Economics, Singapore Management University, 2024.
- External Examiner, "Peer Effects and Individual Decision Making Based on Village Network", Dissertation by Chuanmin Zhao, PhD in Economics, Antai College of Economics and Management, Shanghai Jiaotong University, 2022.
- External Examiner, "Dimensional Extensions of Spatial Dependence: Applications in China", Dissertation by Juncong Guo, PhD in Economics, Antai College of Economics and Management, Shanghai Jiaotong University, 2021.

- External Examiner, “Cross-Sectional Dependence in Heterogeneous Panels: Estimation, Inference and Forecasting”, Dissertation by Oguzhan Okgun, PhD in Economics, University Paris II Pantheon-Assas, France, 2019.
- External Examiner, “Applied Spatial Econometrics for Real Estate Economics”, PhD QE Oral Examination, Real Estate, National University of Singapore, 2019.
- Committee Member, "Essays on High-frequency Financial Econometrics", Dissertation by Shouwei LIU, PhD in Economics, Singapore Management University, 2014.
- External Examiner, “Rank Inferences for the Accelerated Failure Time Models”, Dissertation by Zhou Fang, PhD in Statistics, Dept. of Statistics and Applied Probability, National University of Singapore, 2014.
- External Examiner, “Modified Weibull Distribution in Reliability Engineering”, Dissertation by Hong Jiang, PhD in Industrial and System Engineering, National University of Singapore, 2009.
- External Examiner, “Linear Regression Parameter Estimation Methods for the Weibull Distribution”, Dissertation by Lifang Zhang, PhD in Industrial and System Engineering, National University of Singapore, 2008.
- External Examiner, “Electricity spot price and volatility modelling in the Australian national electricity market”, Dissertation by Xuebing Lu, PhD in Economics, Monash University, Clayton, Australia, 2007.
- External Examiner, “Statistical Control Charts for Automated and High-Quality Manufacturing Process”, Dissertation by Xiaosheng Lu, PhD in Industrial and System Engineering, National University of Singapore, 1998.
- Examiners or External Examiners for a number of Master Thesis.

CONTACT INFORMATION

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