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Education

DPhil, University of Oxford, Great Britain, 1992
Master of Arts, York University, Canada, 1985
Bachelor of Science, University of Toronto, Canada, 1983

Academic Appointments

Professor of Statistics, School of Economics, SMU, Apr 2007 - Present
Professor of Statistics, Jul 2005 - Mar 2007
Associate Professor of Statistics, May 2001 - Jun 2005

Academic Administrative Positions

Member (School of Economics), Institutional Review Board, Office of the Provost, SMU, Jan 2010 - Dec 2014

RESEARCH

Research Interests

Missing data analysis, Empirical likelihood, Generalized method of moments, Generalized estimating equations, Panel data analysis, Missing data, Mixture models, Model selection methods

Publications

Journal Articles [Refereed]

Analysis of spatial data with a nested correlation structure: An estimating equations approach, by ADEGBOYE, Oyelola A.; LEUNG, Denis H. Y.; WANG, You-Gan. (2017). *Journal of the Royal Statistical Society: Series C: Applied Statistics*, 1-26. <http://doi.org/10.1111/rssc.12230> (Published)

Joint spatial time series epidemiological analysis of malaria and cutaneous leishmaniasis infection, by ADEGBOYE, O. A.; AL-SAGHIR, M.; LEUNG, Denis H. Y.. (2017). *Epidemiology and Infection*, 145 (4), 685-700. <http://doi.org/10.1017/S0950268816002764> (Published)

Efficient augmented inverse probability weighted estimation in missing data problems, by QIN, Jing.; ZHANG, Bia; LEUNG, Denis H. Y.. (2017). *Journal of Business and Economic Statistics*, 35 (1), 86-97. <http://doi.org/10.1080/07350015.2015.1058266> (Published)

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Enriching surveys with supplementary data and its application to studying wage regression, by LEUNG, Denis H. Y.; YAMADA, Ken; ZHANG, Biao. (2015). *Scandinavian Journal of Statistics*, 42 (1), 155-179. <http://doi.org/10.1111/sjos.12100> (Published)

Shrinkage empirical likelihood estimator in longitudinal analysis with time-dependent covariates: Application to modeling the health of Filipino children, by LEUNG, Denis H. Y.; SMALL, Dylan S.; QIN, Jing; ZHU, Min. (2013). *Biometrics*, 69 (3), 624-632. <http://doi.org/10.1111/biom.12039> (Published)

Model selection in validation sampling data: An asymptotic likelihood-based LASSO approach, by LEUNG, Denis H. Y.. (2011). *Statistica Sinica*, 21 659-678. <http://www3.stat.sinica.edu.tw/statistica/j21n2/J21N28/J21N28.html> (Published)

Efficient parameter estimation in longitudinal data analysis using a hybrid gee method, by LEUNG, Denis H. Y.; WANG, Y. G.; ZHU, M.. (2009). *Biostatistics*, 10 (3), 436-445. <http://dx.doi.org/10.1093/biostatistics/kxp002> (Published)

Combining gee's in longitudinal data analysis, by LEUNG, Denis H. Y.; WANG, D.; ZHU, M.. (2009). *Biostatistics*, 10 (3), 436-445. <http://dx.doi.org/10.1093/biostatistics/kxp002> (Published)

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Improving semiparametric estimation by using surrogate data, by CHEN, Song Xi; LEUNG, Denis H. Y.; QIN, Jin. (2008). *Royal Statistical Society. Journal. Series B: Statistical Methodology*, 70 (4), 803-823. <http://doi.org/10.1111/j.1467-9868.2008.00662.x> (Published)

Testing intergroup concordance in ranking experiments with two groups of judges, by Dekle, Dawn J.; LEUNG, Denis H. Y.; ZHU, Min. (2008). *Psychological Methods*, 13 (1), 58-71. <http://doi.org/10.1037/1082-989X.13.1.58> (Published)

Semi-parametric inference in a bivariate (multivariate) mixture model, by LEUNG, Denis H. Y.; QIN, Jing. (2006). *Statistica Sinica*, 16 (1), 153-163. (Published)

Analysing survey data with incomplete responses by using a method based on empirical likelihood, by LEUNG, Denis H. Y.; QIN, Jing. (2006). *Journal of the Royal Statistical Society: Series C: Applied Statistics*, 55 379-396. (Published)

Likelihood based inferences in a bivariate (multivariate) semiparametric mixture model, by LEUNG, Denis H. Y.; QIN, Jing. (2006). *Statistica Sinica*, 16 153-163. (Published)

Empirical likelihood based estimation for surrogate covariate data, by LEUNG, Denis H. Y.; QIN, Jing. (2006). *Journal of the Royal Statistical Society: Series C: Applied Statistics*, 55 376-379. (Published)

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Sample size, error rates and optimality considerations for phase II clinical trials, by WANG, Y. G.; LEUNG, Denis H. Y.; LI, M.; TAN, S. B.. (2005). *Statistical Methods in Medical Research*, 14 (5), 445-456. (Published)

Cross-validation in nonparametric regression with outliers, by LEUNG, Denis H. Y.. (2005). *Annals of Statistics*, 33 2291-2310. <http://www.jstor.org/stable/3448642> (Published)

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- Early Stopping by using Stochastic Curtailment in a Three-Arm Sequential Trial, by LEUNG, Denis H. Y.; WANG, You-Gan; AMAR, David. (2003). *Journal of the Royal Statistical Society: Series C: Applied Statistics*, 52 (2), 139-152. <http://dx.doi.org/10.1111/1467-9876.00394> (Published)
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- Factors influencing treatment patterns in breast cancer patients age 75 and over, by HURRIA, A.; LEUNG, Denis H. Y.; TRAINOR, K.; BORGAN, P. I.; NORTON, L.; HUDIS, C.. (2003). *Critical Reviews in Oncology/Hematology*, 2 (2), 121-126. [http://dx.doi.org/10.1016/s1040-8428\(02\)00133-6](http://dx.doi.org/10.1016/s1040-8428(02)00133-6) (Published)
- Information recovery in a study with surrogate endpoints, by CHEN, S. X.; LEUNG, Denis H. Y.; QIN, Jing. (2003). *Journal of the American Statistical Association*, 98 (464), 1052-1062. <http://dx.doi.org/10.1198/016214503000000972> (Published)
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- Impact of SYT-SSX fusion type on the clinical behavior of synovial sarcoma: A multi-institutional retrospective study of 243 patients, by LADANYI, M.; ANTONESCU, C.; LEUNG, Denis H. Y.; WOODRUFF, J. M.; KAWAI, A.; HEALEY, J.. (2002). *Cancer Research*, 62 (1), 135-140. <http://cancerres.aacrjournals.org/cgi/content/abstract/62/1/135> (Published)
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- Tissue microarray molecular profiling of early, node-negative Adenocarcinoma of the rectum: A comprehensive analysis, by HOOS, A.; NISSAN, A.; STOJADINOVIC, A.; SHIA, J.; HEDVAT, C.; LEUNG,

Denis H. Y.. (2002). *Clinical Cancer Research*, 8 (12), 3841-3849.
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A bayesian decision approach for sample size determination in phase II trials, by LEUNG, Denis H. Y.; WANG, Y. G.. (2001). *Biometrics*, 57 (1), 309-312. <http://dx.doi.org/10.1111/j.0006-341X.2001.00309.x> (Published)

Soft-tissue tumors of the abdominal wall - Analysis of disease patterns and treatment, by STOJADINOVIC, A.; HOOS, A.; KARPOFF, H. M.; LEUNG, Denis H. Y.; ANTONESCU, C.; BRENNAN, M. F.. (2001). *Archives of Surgery -New York-*, 136 (1), 70-79. <http://dx.doi.org/10.1001/archsurg.136.1.70> (Published)

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Statistical methods in surrogate endpoint studies, by LEUNG, Denis H. Y.. (2001). *Journal of the Royal Statistical Society*, 164 485-503. (Published)

Soft tissue sarcoma of the groin: Diagnosis, management and prognosis, by BROOKS, A. D.; BOWNE, W.;

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A comparative study between a calcium channel blocker (nicardipine) and a combined α -Blocker (labetalol) for the control of emergence hypertension during craniotomy for tumor surgery, by KROSS, R.; Ferri, E.; LEUNG, Denis H. Y.; PRATILA, M.; BROAD, C.; VERONESI, M.; MELENDEZ, J. A.. (2000). *Anesthesia and Analgesia*, 91 (4), 904-909. <http://www.anesthesia-analgesia.org/cgi/content/abstract/91/4/904> (Published)

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Repeat resection of pulmonary metastases in patients with soft-tissue sarcoma. J Amer, by WEISER, M. R.; DOWNEY, R. J.; LEUNG, Denis H. Y.; BRENNAN, M. F.. (2000). *Journal of The American College of Surgeons*, 191 (2), 184-190. <http://cat.inist.fr/?aModele=afficheN&cpsid=1449582> (Published)

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On the use of surrogate endpoints in randomized trials (with discussion), by BEGG, C. B.; LEUNG, Denis H. Y.. (2000). *Journal of the Royal Statistical Society*, 163 15-28. <http://cat.inist.fr/?aModele=afficheN&cpsid=1124231> (Published)

Strong association of SYT-SSX fusion type and morphologic epithelial differentiation in synovial sarcoma, by ANTONESCU, C.; KAWAI, A.; LEUNG, Denis H. Y.; LONARDO, F.; WOODRUFF, J. M.; HEALEY, J.; LADANYI, M.. (2000). *Diagnostic Molecular Pathology*, 9 (1), 1-8. <http://www.ncbi.nlm.nih.gov/pubmed/10718206> (Published)

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Research Grants

Singapore Management University

ECONOMIC SECURITY AND THE AGEING DEMOGRAPHIC - CENTRE FOR RESEARCH ON THE ECONOMICS OF AGEING, Academic Research Fund (AcRF) Tier 3, Ministry of Education (MOE) , PI (Project Level): YU Jun , Co-PI (Project Level): Denis LEUNG, PHANG Sock Yong, Benedict KOH, TSE Yiu Kuen, 2014, S\$9,997,658.75

A semi-parametric marginal model for spatio-temporal data, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2013, S\$38,433.56

Statistical method for combining survey data from multiple sources, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2012, S\$34,879.33

Jackknifing predictive regression models, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2010, S\$33,333.78

Statistical inference in survey data with missing-response, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2009, S\$32,440.56

Analysis of longitudinal data with time-dependent covariates, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2008, S\$39,775.67

Semiparametric Analysis in Multivariate Mixture Models, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2007, S\$34,577.33

Semiparametric Likelihood Ratio Inference for Longitudinal (Panel) Data Analysis, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2005, S\$34,889.22

A New Technique for Analyzing Rank-Ordered Data, SMU Internal Grant, Ministry of Education (MOE) Tier 1 2005, S\$27,257.22

Using auxiliary data to improve the efficiency of a choice-based sample from a two-stage survey, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2004, S\$32,875.67

Product development with Fall-back options: A Study of Drug Development in the Pharmaceutical Industry, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2003, S\$30,276.89

The influence of political factors on entrepreneurship intentions, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG , Co-PI (Project Level): TAN Wee Liang, 2002, S\$35,928

Information Recovery Using Surrogates, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Denis LEUNG, 2001, S\$26,845.6

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes :

Introduction to Statistical Theory

Introductory Statistics

Teaching Publications

Textbook

Introductory statistics (2nd), by Chow, Hwee Kwan; Ghosh, Aurobindo; Leung, Denis H. Y.; TSE, Yiu Kuen. (2007). Singapore: Pearson/Prentice-Hall. <http://www.worldcat.org/isbn/9789810677732> (Published)