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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, School of Economics and Social Sciences, SMU, Jul 2005 - Mar 2007  
Associate Professor of Statistics, School of Economics and Social Sciences, SMU, May 2001 - Jun 2005

## Academic Administrative Positions

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

## RESEARCH

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### 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]

Granulocyte colony stimulating factor promotes scarless tissue regeneration, by HUANG, Jianhe; SATI, Satish; MURPHY, Christina; SPENCER, Casey A.; RAPP, Emmanuel; PROUTY, Stephen M.; KORTE, Scott; AHART, Olivia; SHENG, Emily, JONES, Parker; KERSH, Anna E.; LEUNG, Denis; LEUNG, Thomas H.. (2024). *Cell Reports*, 43 (10), 1-20. <https://doi.org/10.1016/j.celrep.2024.114742> (Published)

Recruitment of CXCR4+type 1 innate lymphoid cells distinguishes sarcoidosis from other skin granulomatous diseases, by Sati, S.; Huang, J.; Kersh, A.E.; Jones, P.; Ahart, O.; Murphy, C.; Prouty, S.M.; Hedberg, M.L.; Jain, V.; Gregory, S.G.; LEUNG, Denis H.; Seykora, I.T.; Rosenbach, M.; Leung, T.H.. (2024).

*The Journal of Clinical Investigation*, 134 (17), 1-17. <https://doi.org/10.1172/JCI178711> (Published)

HIV estimation using population-based surveys with non-response: A partial identification approach, by ADEGBOYE, Oyelola A.; FUJII, Tomoki; LEUNG, Denis Heng-Yan; LI, Siyu. (2024). *Statistics in Medicine*, 43 (16), 3005-3019. <https://doi.org/10.1002/sim.10108> (Published)

Nonignorable Missing Data, Single Index Propensity Score and Profile Synthetic Distribution Function, by CHEN, Xuerong; LEUNG, Denis H. Y.; QIN, Jing. (2022). *Journal of Business and Economic Statistics*, 40 (2), 705-717. <https://doi.org/10.1080/07350015.2020.1860065> (Published)

Change in outbreak epicentre and its impact on the importation risks of COVID-19 progression: A modelling study, by Adegboye, Oyelola A.; Adekunle, Adeshina I.; Pak, Anton; Gayawan, Ezra; LEUNG, Denis H. Y.; Rojas, Diana P.; Elfaki, Faiz; McBryde, Emma S.; Eisen, Damon P.. (2021). *Travel Medicine and Infectious Disease*, 40 1-6. <https://doi.org/10.1016/j.tmaid.2021.101988> (Published)

Refusal bias in HIV data from the Demographic and Health Surveys: Evaluation, critique and recommendations, by ADEGBOYE, Oyelola A.; FUJII, Tomoki; LEUNG, Denis H. Y.. (2020). *Statistical Methods in Medical Research*, 29 (3), 811-826. <https://doi.org/10.1177/0962280219844536> (Published)

Semiparametric maximum likelihood inference for nonignorable nonresponse with callbacks, by GUAN, Zhong; LEUNG, Denis H. Y.; QIN, Jing. (2018). *Scandinavian Journal of Statistics*, 45 (4), 962-984. <https://doi.org/10.1111/sjos.12330> (Published)

Aging Suppresses Skin-Derived Circulating SDF1 to Promote Full-Thickness Tissue Regeneration (vol 24, pg 3383, 2018), by Nishiguchi, Maily A.; Spencer, Casey A.; Leung, Denis H.; Leung, Thomas H.. (2018). *Cell Reports*, 25 (13), 3383-3392. <https://doi.org/10.1016/j.celrep.2018.12.056> (Published)

Analysis of spatial data with a nested correlation structure, by ADEGBOYE, Oyelola A.; LEUNG, Denis H. Y.; WANG, You-Gan. (2018). *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 67 (2), 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 & Infection*, 145 (4), 685-700. <https://doi.org/10.1017/S0950268816002764> (Published)

Efficient Augmented Inverse Probability Weighted Estimation in Missing Data Problems, by QIN, Jing; ZHANG, Biao; LEUNG, Denis H. Y.. (2017). *Journal of Business and Economic Statistics*, 35 (1), 86-97. <https://doi.org/10.1080/07350015.2015.1058266> (Published)

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. <https://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. <https://doi.org/10.1111/biom.12039> (Published)

Model selection in validation sampling data: An asymptotic likelihood-based LASSO approach, by LENG, Chenlei; LEUNG, Denis H. Y.. (2011). *Statistica Sinica*, 21 659-678. (Published)

Empirical Likelihood in Missing Data Problems, by QIN, Jing; ZHANG, Biao; LEUNG, Denis H. Y.. (2009). *Journal of the American Statistical Association*, 104 (488), 1492-1503. <http://doi.org/10.1198/jasa.2009.tm08163> (Published)

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Improving semiparametric estimation by using surrogate data, by CHEN, Song Xi; LEUNG, Denis H. Y.; QIN, Jin. (2008). *Journal of the Royal Statistical Society, 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.  
<https://doi.org/10.1037/1082-989X.13.1.58> (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 (3), 379-396. <https://doi.org/10.1111/j.1467-9876.2006.00542.x> (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)

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

Cross-validation in nonparametric regression with outliers, by LEUNG, Denis H. Y.. (2005). *The Annals of Statistics*, 33 (5), 2291-2310. <https://doi.org/10.1214/009053605000000499> (Published)

A semiparametric two-component "compound" mixture model and its application to estimating malaria attributable fractions, by QIN, Jing; LEUNG, Denis H. Y.. (2005). *Biometrics*, 61 (2), 456-464.  
<https://doi.org/10.1111/j.1541-0420.2005.00330.x> (Published)

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)

Adrenocortical adenoma and carcinoma: Histopathological and molecular comparative analysis, by STOJADINOVIC, A.; BRENNAN, M. F.; HOOS, A.; OMEROGU, A.; LEUNG, Denis H. Y.; DUDAS, M.; NISSAN, A.; CORDON-CARDO, C.; GHOSSEIN, R.A.. (2003). *Modern Pathology*, 16 (8), 742-751.  
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Factors influencing treatment patterns of breast cancer patients age 75 and older, by HURRIA, Arti; LEUNG, Denis H. Y.; TRAINOR, Kathleen; BORGAN, Patrick; NORTON, Larry; HUDIS, Clifford. (2003). *Critical Reviews in Oncology/Hematology*, 46 (2), 121-126. [https://doi.org/10.1016/s1040-8428\(02\)00133-6](https://doi.org/10.1016/s1040-8428(02)00133-6) (Published)

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://doi.org/10.1111/1467-9876.00394> (Published)

Information recovery in a study with surrogate endpoints, by YANG, Zhenlin; ABEYSINGHE, Tilak. (2003). *Journal of the American Statistical Association*, 98 (464), 107-115.  
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Isotonic designs for phase I trials, by LEUNG, Denis H. Y.; WANG, You-Gan. (2001). *Controlled Clinical Trials*, 22 (2), 126-138. [https://doi.org/10.1016/S0197-2456\(00\)00132-X](https://doi.org/10.1016/S0197-2456(00)00132-X) (Published)

Conventional hemangiopericytoma modern analysis of outcome - Modern analysis of outcome, by ESPAT, N. J.; LEWIS, J. J.; LEUNG, Denis H. Y.; WOODRUFF, J. M.; ANTONESCU, C.; SHIA, J.. (2002). *Cancer*, 95 (8), 1746-1751. <http://dx.doi.org/10.1002/cncr.10867> (Published)

Estimation with survey data under nonignorable non-response or informative sampling, by LEUNG, Denis H. Y.; QIN, Jing; SHAO, J.. (2002). *Journal of the American Statistical Association*, 97 (457), 193-200.  
<http://www.jstor.org/stable/3085774> (Published)

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*Oncology*, 20 (21), 4344-4352. <http://dx.doi.org/10.1200/jco.2002.07.154> (Published)

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)

Adjuvant brachytherapy for primary high-grade soft tissue sarcoma of the extremity, by ALEKTIAR, K. M.; LEUNG, Denis H. Y.; ZELEFSKY, M. J.; HEALEY, J.; BRENNAN, M. F.. (2002). *Annals of Surgical Oncology*, 9 (1), 48-56. <http://dx.doi.org/10.1245/aso.2002.9.1.48> (Published)

The value of splenic preservation with distal pancreatectomy, by SHOUP, M.; BRENNAN, M. F.; MCWHITE, K.; LEUNG, Denis H. Y.; KILMSTRA, D. S.; CONLON, K.. (2002). *Archives of Surgery*, 137 (2), 164-168. <http://dx.doi.org/10.1001/archsurg.137.2.164> (Published)

Soft tissue sarcoma brain metastases - Prevalence in a cohort of 3829 patients, by ESPAT, N. J.; BILSKY, M. H.; LEWIS, J. J.; LEUNG, Denis H. Y.; BRENNAN, M. F.. (2002). *Cancer*, 94 (10), 2706-2711. <http://dx.doi.org/10.1002/cncr.10554> (Published)

Clinical significance of molecular expression profiles of Hurthle cell tumors of the thyroid gland analyzed via tissue microarrays, by HOOS, Axel; STOJADINOVIC, Alexander; SINGH, Bhuvanesh; DUDAS, Maria E.; LEUNG, Denis H. Y.; SHAHA, Ashok R.; SHAH, Jatin P.; BRENNAN, Murray F.; CORDON-CARDO, Carlos; GHOSSEIN, Ronald. (2002). *The American Journal of Pathology*, 160 (1), 175-183. [http://doi.org/10.1016/S0002-9440\(10\)64361-1](http://doi.org/10.1016/S0002-9440(10)64361-1) (Published)

Postoperative nomogram for 12-year sarcoma-specific death, by KATTAN, M.; LEUNG, Denis H. Y.; BRENNAN, M. F.. (2002). *Journal of Clinical Oncology*, 20 (3), 791-796. <http://jco.ascopubs.org/cgi/content/abstract/20/3/791> (Published)

Conditional probability of significance for early stopping in favor of H0, by WANG, Y. G.; LEUNG, Denis H. Y.. (2002). *Sequential Analysis*, 21 (3), 145-. (Published)

An extension of the continual reassessment method using decision theory, by LEUNG, Denis H. Y.; WANG, Y. G.. (2002). *Statistics and Computing*, 21 (1), 51-63. <http://dx.doi.org/10.1002/sim.970> (Published)

Hurthle cell carcinoma: A 60-year experience, by STOJADINOVIC, A.; HOOS, A.; GHOSSEIN, R. A.; URIST, M. J.; LEUNG, Denis H. Y.; SPIRO, R.H.. (2002). *Annals of Surgical Oncology*, 9 (2), 197-203. <http://dx.doi.org/10.1007/BF02557374> (Published)

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. <http://clincancerres.aacrjournals.org/cgi/content/abstract/8/12/3841> (Published)

Older age is the strongest predictor of postoperative atrial fibrillation, by AMAR, D.; ZHANG, H.; LEUNG, Denis H. Y.; ROISTACHER, N.; KADISH, A. (2002). *Anesthesiology*, 96 (2), 352-356. <http://www.ncbi.nlm.nih.gov/pubmed/11818768> (Published)

Prognostic impact of P53 status, TLS-CHOP fusion transcript structure, and histological grade in myxoid liposarcoma: A molecular and clinicopathologic study of 82 cases, by Antonescu, C. R.; Tschernyavsky, S. J.; Decuseara, R.; Woodruff, J. M.; Ladanyi, M.; Leung, Denis H. Y.; Brennan, M. F.; Bridge, J. A.; Neff, J. R.; Goldblum, J. R.. (2001). *Clinical Cancer Research*, 7 (12), 3977-3987. (Published)

Gastrointestinal stromal tumors and leiomyosarcoma of the abdomen and retroperitoneum: A clinic comparison, by CLARY, B. M.; DEMATTEO, R. P.; LEWIS, J. J.; LEUNG, Denis H. Y.; BRENNAN, M. F.. (2001). *Annals of Surgical Oncology*, 8 (4), 290-299. <http://dx.doi.org/10.1007/s10434-001-0290-3> (Published)

Validation of tissue microarrays for immunohistochemical profiling of cancer specimens using the example of human fibroblastic tumors, by HOOS, Axel; URIST, Marshall J.; STOJADINOVIC, Alexaner; MASTORIDES, Stephen; DUDAS, Maria E.; LEUNG, Denis H. Y.; et al. (2001). *The American Journal of Pathology*, 158 (4), 1246-1251. [https://doi.org/10.1016/S0002-9440\(10\)64075-8](https://doi.org/10.1016/S0002-9440(10)64075-8) (Published)

Optimal designs for evaluating a series of treatments, by LEUNG, Denis H. Y.; WANG, You Gan. (2001). *Biometrics*, 57 (1), 168-171. <https://doi.org/10.1111/j.0006-341X.2001.00168.x> (Published)

Correlation of peripheral venous pressure and central venous pressure in surgical patients, by AMAR, D.; MELENDEZ, J. A.; ZHANG, H.; Dobres, C.; LEUNG, Denis H. Y.; PADILLA, R.. (2001). *Journal of Cardiothoracic*

and *Vascular Anesthesia*, 15 (1), 40-43. <http://dx.doi.org/10.1053/jcan.2001.20271> (Published)

An improved up-and-down design for phase I trials, by LEUNG, Denis H. Y.; WANG, Y. G.. (2001). *Controlled Clinical Trials*, 22 126-138. (Published)

Clinicopathologic analysis of patients with adult rhabdomyosarcoma, by HAWKINS, W.; HOOS, A.; ANTONESCU, C.; URIST, M. J.; LEUNG, Denis H. Y.; GOLD, J.. (2001). *Cancer*, 91 (4), 794-803. [http://dx.doi.org/10.1002/1097-0142\(20010215\)91:4<794::aid-cnrcr1066>3.0.co;2-q](http://dx.doi.org/10.1002/1097-0142(20010215)91:4<794::aid-cnrcr1066>3.0.co;2-q) (Published)

Statistical methods for clinical studies in the presence of surrogate end points, by LEUNG, Denis H. Y.. (2001). *Journal of the Royal Statistical Society, Series A (Statistics in Society)*, 164 (3), 485-503. <http://doi.org/10.1111/1467-985X.00215> (Published)

Amputation for recurrent soft tissue sarcoma of the extremity: Indications and outcome, by STOJADINOVIC, A.; JAQUES, D. P.; LEUNG, Denis H. Y.; HEALEY, J.; BRENNAN, M. F.. (2001). *Annals of Surgical Oncology*, 8 (6), 509-518. <http://dx.doi.org/10.1007/s10434-001-0509-3> (Published)

Lymphovascular invasion enhances the prediction of non-sentinel node metastases in breast cancer patients with positive sentinel nodes, by WEISER, M. R.; MONTGOMERY, L. L.; TAN, L. K.; SUSNIK, B.; LEUNG, Denis H. Y.; BORGAN, P. I.. (2001). *Annals of Surgical Oncology*, 8 (2), 145-149. <http://dx.doi.org/10.1007/s10434-001-0145-y> (Published)

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Extended hepatic resection: A 6-year retrospective study of risk factors for perioperative mortality, by MELENDEZ, J. A.; FERRI, E.; ZWILLMAN, M.; FISCHER, M.; DEMATTEO, R. P.; LEUNG, Denis H. Y.; JARNAQIN, W.; FONG, Y.; BLUMGART, L.H.. (2001). *Journal of the American College of Surgeons*, 192 (1), 47-53. <http://cat.inist.fr/?aModele=afficheN&cpsidt=855717> (Published)

Prospective randomized clinical trial of the value of intraperitoneal drainage after pancreatic resection, by CONLON, K. C.; LABOW, D.; LEUNG, Denis H. Y.; SMITH, A.; JAMAGIN, W.; COIT, D. G.; MERCHANT, N. B.; BRENNAN, M. F.. (2001). *Annals of Surgery*, 234 (4), 487-494. <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1422072&rendertype=abstract> (Published)

Is there a role for incomplete resection in the management of retroperitoneal liposarcomas?, by SHIBATA, D.; LEWIS, J. J.; LEUNG, Denis H. Y.; BRENNAN, M. F.. (2001). *Journal of the American College of Surgeons*, 193 (4), 373-379. <http://cat.inist.fr/?aModele=afficheN&cpsidt=14072837> (Published)

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A Bayesian decision approach for sample size determination in phase II trials, by LEUNG, Denis H. Y.; WANG, You-Gan. (2001). *Biometrics*, 57 (1), 309-312. <https://doi.org/10.1111/j.0006-341X.2001.00309.x> (Published)

Prognostic impact of P53 status in Ewing sarcoma, by DE ALAVA, E.; ANTONESCU, C.; PANIZO, A.; LEUNG, Denis H. Y.; MEYERS, P.; HUVOS, A.; PARDO-MINDAN, F. J.; HEALEY, J.; LADANYI, M.. (2000). *Cancer*, 89 (4), 783-792. [https://doi.org/10.1002/1097-0142\(20000815\)89:4<783::aid-cnrcr10>3.0.co;2-q](https://doi.org/10.1002/1097-0142(20000815)89:4<783::aid-cnrcr10>3.0.co;2-q) (Published)

Synovial sarcoma: A multivariate analysis of prognostic factors in 112 patients with primary localized tumors of the extremity, by LEWIS, J. J.; ANTONESCU, C.; LEUNG, Denis H. Y.; BLUMBERG, D.; HEALEY, J.; WOODRUFF, J. M.; BRENNAN, M. F.. (2000). *Journal of Clinical Oncology*, 18 (10), 2087-2094. <http://jco.ascopubs.org/cgi/content/abstract/18/10/2087> (Published)

Repeat resection of pulmonary metastases in patients with soft-tissue sarcoma, 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&cpsidt=1449582> (Published)

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&cpsidt=1124231> (Published)

Surgical management of intra-abdominal desmoid tumours, by SMITH, A. J.; LEWIS, J. J.; MERCHANT, N. B.; LEUNG, Denis H. Y.; WOODRUFF, J. M.; BRENNAN, M. F.. (2000). *British Journal of Surgery*, 87 (5), 608-613.

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Phase I and pharmacokinetic study of 10-propargyl-10-deazaaminopterin, a new antifolate, by KRUG, L.; KRIS, M.; MILLER, V.; TONG, W.; HEELAN, R.; LEON, L.; LEUNG, Denis H. Y.; KELLY, J.; GRANT, S.; SIROTNAK, F.. (2000). *Clinical Cancer Research*, 6 (9), 3493-3498. <http://clincancerres.aacrjournals.org/cgi/content/abstract/6/9/3493> (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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Dermatofibrosarcoma protuberans - A clinicopathologic analysis of patients treated and followed at a single institution, by BOWNE, W.; ANTONESCU, C.; LEUNG, Denis H. Y.; KATZ, S.; HAWKINS, W.; WOODRUFF, J. M.; BRENNAN, M. F.; LEWIS, J. J.. (2000). *Cancer*, 88 (12), 271-280. [http://dx.doi.org/10.1002/1097-0142\(20000615\)88:12<2711::AID-CNCR9>3.0.CO;2-M](http://dx.doi.org/10.1002/1097-0142(20000615)88:12<2711::AID-CNCR9>3.0.CO;2-M) (Published)

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#### Journal Articles [Non-Refereed]

Activation of TRPA1 nociceptor promotes systemic adult mammalian skin regeneration, by WEI, Jenny J.;

KIM, Hali S.; SPENCER, Casey A.; BRENNAN-CRISPI, Donna; ZHENG, Ying; JOHNSON, Nicolette M.; ROSENBACH, Misha; MILLER, Christopher; LEUNG, Denis H.; COTSARELIS, George; LEUNG, Thomas H.. (2020). *Science Immunology*, 5 (50), 1-18. <https://doi.org/10.1126/sciimmunol.aba5683> (Published)

### Book Chapters

Semiparametric analysis in conditionally independent multivariate mixture models, by HAMMEL, Tracey W.; HETTMANSPERGER, Thomas P.; LEUNG, Denis H. Y.; QIN, Jing. (2015). In Klaus Nordhausen & Sara Taskinen (Ed.), *Modern nonparametric, robust and multivariate methods* (pp. 371-392) Cham: Springer. [http://doi.org/10.1007/978-3-319-22404-6\\_21](http://doi.org/10.1007/978-3-319-22404-6_21) (Published)

Stopping boundaries, by LEUNG, Denis H. Y.. (2007). *Encyclopedia for Clinical Trials* (Published)

### Conference Proceedings

Semiparametric prevalence estimation from a two-phase survey, by LEUNG, Denis H.Y; QIN, J. (2009.0). *Interfacing modelling and simulation with mathematical and computational sciences: 18th IMACS World Congress, MODSIM09, Cairns, Australia 13-17 July 2009: Proceedings*, (pp. 1328-1334) New Zealand: Christchurch. <http://worldcat.org/isbn/9780975840078> (Published)

### Conference Papers

Hong Kong/Multidimensional assessment of the value of e-learning in a large institution: Challenges and outcomes, by LEUNG, Denis H. Y.. (2005.0). *First International Conference on Enhancing Teaching and Learning*, Singapore. <http://www.polyu.edu.hk/assessment/abstracts.htm#P00608> (Published)

The influence of political freedom on entrepreneurship intentions, by TAN, Wee Liang; LEUNG, Denis H Y; BEGLEY, Thomas. (2003.0). *Babson-Kauffman Entrepreneurship Research Conference, Babson Park, Babson Park, MA, USA*. <http://www.babson.edu/entrep/fer/BABSON2003/XXII/XXII-S5/XXII-S5.html> (Presented)

### Working Papers

*HIV estimation using population based surveys with non-response: A partial identification approach*, by ADEGBOYE, Oyelola A; FUJII, Tomoki; LEUNG, Denis Heng-Yan; LI, Siyu. (2024). <https://doi.org/10.1101/2023.06.03.23290936> (Published)

*Refusal bias in HIV data from the Demographic and Health Surveys: Evaluation, critique and recommendations*, by ADEGBOYE, Oyelola A.; FUJII, Tomoki; LEUNG, Denis H. Y.. (2019). Singapore: SMU Economics and Statistics Working Paper Series, Paper No. 06-2019. (Published)

*Bound estimator of HIV prevalence: Application to Malawi*, by FUJII, Tomoki; LEUNG, Denis H. Y.. (2014). Singapore: SMU Economics and Statistics Working Paper Series, No. 17-2014. (Published)

### Research Grants

#### Singapore Management University

Limiting False Positives in Empirical Asset Pricing Tests, ARC Discovery Programme, Australian Research Council (ARC) , Co-PI (Project Level): Denis LEUNG, 2024, S\$0

Dynamic and Holistic Monitoring of the Well-Being of the Older Singaporean Population, Academic Research Fund (AcRF) Tier 3, Ministry of Education (MOE) , PI (Project Level): Paulin Tay STRAUGHAN , Co-PI (Project Level): KIM Seonghoon, Denis LEUNG, PHANG Sock Yong, William TOV, YANG Hwajin, YU Jun, 2020, S\$9,951,910

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): Peter C. B. PHILLIPS, Denis LEUNG, PHANG Sock Yong, Benedict KOH, TSE Yiu Kuen, 2019, S\$2,017,200

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): Peter C. B. PHILLIPS, 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

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### Courses Taught

#### Singapore Management University

Undergraduate Programmes :

Applied Healthcare Analytics

Health Economics and Management Work-study Elective

Health Economics and Management Work-Study Elective

Introduction to Statistical Theory

Introductory Statistics

## Teaching Publications

### Textbooks

*Introductory statistics* (2nd), by CHOW, Hwee Kwan; GHOSH, Aurobindo; LEUNG, Denis H. Y.; TSE, Yiu Kuen. (2007). Singapore: Pearson/Prentice-Hall. <https://worldcat.org/isbn/9789810677732> (Published)

## THESES AND DISSERTATIONS

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### Theses and Dissertations Assessed

#### Singapore Management University

External Examiner, "Three Essays on Large Panel Data Models with Cross-sectional Dependence", Dissertation by ZHANG YONGHUI, PhD in Economics, Singapore Management University, 2013

## UNIVERSITY SERVICE

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### Singapore Management University

Committee Member, Faculty Senate, Apr 2019 - Present

Committee Chair, Grievance Commission, Jan 2013 - Aug 2019