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# Mike W.-L. Cheung

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## EXECUTIVE SUMMARY

I am a Full Professor at the Department of Psychology, the National University of Singapore. My primary research areas are quantitative methods, including structural equation modeling, meta-analysis, and multilevel modeling. My main research topic is the integration of meta-analysis and structural equation modeling. I have published more than 70 articles (including articles in press) in international journals and one book titled *Meta-Analysis: A Structural Equation Modeling Approach*. According to Google Scholar, my H-index and the total citations of my work are 38 and 5,675, respectively. I am an Associate Editor of *Research Synthesis Methods* and *Neuropsychology Review* and in the editorial boards of *Psychological Bulletin*, *Journal of Management*, *Health Psychology Review*, and *Methods in Psychology*. See <http://mikewlcheung.github.io> for my profile.

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## CONTACT INFORMATION

Academic title	Full Professor
Affiliation	Department of Psychology, National University of Singapore (NUS), Singapore
My homepage	<a href="http://mikewlcheung.github.io">http://mikewlcheung.github.io</a>
Websites	Academia, GitHub, Google Scholar, Linkedin, Loop, Mendeley, Microsoft Academic, OpenMx, ORCID, OSF, PsyArXiv, Publons, ResearchGate, Scopus, Stack Exchange, Twitter, and Zotero

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## ACADEMIC POSITIONS

Jul 2020 - present	<b>Full Professor</b> (with tenure), Department of Psychology, NUS
Jan 2010 - Jun 20	<b>Associate Professor</b> (with tenure), Department of Psychology, NUS
Jul 2006 - Dec 09	<b>Assistant Professor</b> (tenure track), Department of Psychology, NUS
Mar 2003 - Jul 06	<b>Research Assistant Professor</b> , Department of Psychology, The University of Hong Kong (HKU)
Aug 2002 - Mar 03	<b>Postdoctoral Fellow</b> , Department of Psychology, HKU

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## AFFILIATIONS

Jan 2020 - present	<b>Steering Committee Member</b> , Centre for Family and Population Research (CFPR), NUS
Apr 2018 - present	<b>Affiliate</b> , The Institute for Application of Learning Science and Educational Technology (ALSET), NUS
Feb 2017 - present	<b>Affiliate</b> , The Institute of Data Science (IDS), NUS
Nov 2016 - present	<b>Research Associate</b> , Centre for Family and Population Research (CFPR), NUS

- Nov 2015 - present **Associate Member**, Centre for Quantitative Medicine (CQM) at Duke-NUS Graduate Medical School, Singapore
- Oct 2015 - Sep 18 **Associate Professor** (courtesy appointment), Department of Management & Organisation, NUS

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## EDUCATION

- 1999 - 2002 **Ph.D. in Psychology**, The Chinese University of Hong Kong (CUHK) (major in quantitative psychology and minor in industrial and organizational psychology)
- 1997 - 1999 **M.Phil. in Psychology**, CUHK (major in quantitative psychology)
- 1993 - 1997 **Bachelor of Social Sciences**, CUHK (major in psychology and minor in physics)

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## FELLOWSHIPS AND AWARDS

- 2015 Humanities and Social Sciences (HSS) Faculty Research Fellowship, NUS
- 2012 Award for Excellent Researcher, Faculty of Arts and Social Sciences, NUS
- 2008 Nominated for the Young Scientists Program by the 29th International Congress of Psychology, Berlin, Germany

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## RESEARCH INTERESTS

- Primary I am interested in statistical techniques such as structural equation modeling, meta-analysis, and multilevel modeling. My primary research interest is to integrate meta-analysis into the structural equation modeling framework.
- Others Item response theory, mixture modeling, cross-cultural research methodology, ipsative data analysis, forced-choice data analysis, response set bias, analysis of big data, computational issues

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## PREPRINTS

- [4] **Cheung, M. W.** (2020, July 26). Synthesizing indirect effects in mediation models with meta-analytic methods. <https://doi.org/10.31234/osf.io/df6jp>
- [3] Jak, S., Li, H., Kolbe, L., & **Cheung, M. W.** (2020, June 25). Meta-analytic structural equation modeling made easy: A tutorial and web application for one-stage MASEM. <https://doi.org/10.31234/osf.io/hj2wr>
- [2] **Cheung, M. W.** (2020, June 24). Meta-Analytic structural equation modeling. <https://doi.org/10.31234/osf.io/epsqt>
- [1] Epskamp, S., Isvoranu, A., & **Cheung, M. W.** (2020, April 1). Meta-analytic Gaussian network aggregation. <https://doi.org/10.31234/osf.io/236w8>

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## BOOK

- [1] **Cheung, M. W.-L.** (2015). *Meta-Analysis: A Structural Equation Modeling Approach*. Chichester, West Sussex: John Wiley & Sons.

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## EDITORIALS IN REFEREED JOURNALS

- [3] **Cheung, M. W.-L.**, & Jak, S. (2018). Challenges of analyses and applications of Big Data in Psychology. *Zeitschrift für Psychologie*, 226 (4), 209-211. doi:10.1027/2151-2604/a000348

- [2] Kwok, O.-M., **Cheung, M. W.-L.**, Jak, S., Ryu, E., & Wu, J.-Y. (2018). Editorial: Recent advancements in structural equation modeling (SEM): From both methodological and application perspectives. *Frontiers in Psychology*, 9 (1936). doi:10.3389/fpsyg.2018.01936
- [1] **Cheung, M. W.-L.**, & Hafdahl, A. R. (2016). Special issue on meta-analytic structural equation modeling: Introduction from the Guest Editors. *Research Synthesis Methods*, 7 (2), 112-120. doi:10.1002/jrsm.1212

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## ARTICLES IN REFEREED JOURNALS

- [71] Yeung, W.-J. J., Chen, X., Ding, X. P., & **Cheung, M.W.-L.** (accepted for publication). Achievement Test for Chinese Preschool Children: Validity and Social Correlates. *Chinese Journal of Sociology*.
- [70] Zhang, Y., Liu, G., Zhang, L., Xu, S., & **Cheung, M.W.-L.** (2020). Psychological ownership: A meta-analysis and comparison of multiple forms of attachment in the workplace. *Journal of Management*. doi:/10.1177/0149206320917195
- [69] Vijayakumar, R., & **Cheung, M. W.-L.** (2019). Assessing replicability of machine learning results: An introduction to methods on predictive accuracy in social sciences. *Social Science Computer Review*. doi:/10.1177/0894439319888445
- [68] Chua, M.H.Y., Ng, I.A.T., **Cheung, M. W.-L.**, & Mak, A. (2019). Association between cigarette smoking and systemic lupus erythematosus - An updated multivariate Bayesian meta-analysis. *The Journal of Rheumatology*. doi:/10.3899/jrheum.190733
- [67] Jak, S., & **Cheung, M. W.-L.** (2019). Meta-analytic structural equation modeling with moderating effects on SEM parameters. *Psychological Methods*. doi:/10.1037/met0000245
- [66] Sun, H., Yussof, N. T. B., Habib Mohamed, M. B. B., Rahim, A. B., Bull, R., **Cheung, M. W.-L.**, & Cheong, S. A. (2019). Bilingual language experience and children's social-emotional and behavioral skills: a cross-sectional study of Singapore preschoolers. *International Journal of Bilingual Education and Bilingualism*. doi:/10.1080/13670050.2018.1461802
- [65] Jak, S., & **Cheung, M. W.-L.** (2020). A commentary on Lv and Maeda (2019). *Structural Equation Modeling: A Multidisciplinary Journal*, 27 (3), 438-441. doi:/10.1080/10705511.2019.1688155
- [64] **Cheung, M. W.-L.** (2019) A guide to conducting a meta-analysis with non-independent effect sizes. *Neuropsychology Review*, 29 (4), 387-396. doi:/10.1007/s11065-019-09415-6
- [63] Gu, F., Yung, Y.-F., & **Cheung, M. W.-L.** (2019). Four covariance structure models for canonical correlation analysis: A COSAN modeling approach. *Multivariate Behavioral Research*, 54 (2). doi:/10.1080/00273171.2018.1512847
- [62] **Cheung, M. W.-L.** (2019). Some reflections on combining meta-analysis and structural equation modeling. *Research Synthesis Methods*, 10 (1), 15-22. doi:/10.1002/jrsm.1321
- [61] Zhang, Y., Zhang, L., Liu, G., Duan, J., Xu, S., & **Cheung, M. W.-L.** (2019). How does ethical leadership impact employee organizational citizenship behavior? *Zeitschrift für Psychologie*, 227 (1), 18-30. doi:/10.1027/2151-2604/a000353
- [60] Vijayakumar, R., & **Cheung, M. W.-L.** (2018). Replicability of machine learning models in the social sciences: a case study in variable selection. *Zeitschrift für Psychologie*, 226 (4), 259-273. doi:/10.1027/2151-2604/a000344

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- [58] Jak, S., & **Cheung, M. W.-L.** (2018). Testing moderator hypotheses in meta-analytic structural equation modeling using subgroup analysis. *Behavior Research Methods, 50* (4), 1359-1373. doi/10.3758/s13428-018-1046-3
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- [56] Cheng, C., **Cheung, M. W.-L.**, & Wang, H. (2018). Multinational Comparison of Internet Gaming Disorder and Psychosocial Problems versus Well-being: Meta-Analysis of 20 Countries. *Computers in Human Behavior, 88*, 153-167. doi: 10.1016/j.chb.2018.06.033
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- [53] **Cheung, M. W.-L.**, & Hong, R.-Y. (2017). Applications of meta-analytic structural equation modeling in health psychology: Examples, issues, and recommendations. *Health Psychology Review, 11* (3), 265-279. doi:10.1080/17437199.2017.1343678
- [52] Sigerson, L., Li, A. Y.-L. **Cheung, M. W.-L.**, & Cheng, C. (2017). Examining common information technology addictions and their relationships with non-technology-related addictions. *Computers in Human Behavior, 75*, 520-526. doi:10.1016/j.chb.2017.05.041
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- [43] **Cheung, M. W.-L.**, & Jak, S. (2016). Analyzing big data in psychology: A split/analyze/meta-analyze approach. *Frontiers in Psychology*, 7 (738). doi:10.3389/fpsyg.2016.00738
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- [38] **Cheung, M. W.-L.** (2014). Fixed- and random-effects meta-analytic structural equation modeling: Examples and analyses in R. *Behavior Research Methods*, 46 (1), 29-40. doi:10.3758/s13428-013-0361-y
- [37] **Cheung, M. W.-L.** (2013). Multivariate meta-analysis as structural equation models. *Structural Equation Modeling: A Multidisciplinary Journal*, 20 (3), 429-454. doi:10.1080/10705511.2013.797827
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- [31] Zhang, M. W. B., Ho, R. C. M., **Cheung, M. W.-L.**, Fu, E., & Mak, A. (2011). Prevalence of depressive symptoms in patients with chronic obstructive pulmonary disease: a systematic review, meta-analysis and meta-regression. *General Hospital Psychiatry*, 33 (3), 217-223. doi:10.1016/j.genhosppsych.2011.03.009
- [30] Viechtbauer, W., & **Cheung, M. W.-L.** (2010). Outlier and influence diagnostics for meta-analysis. *Research Synthesis Methods*, 1 (2), 112-125. doi: 10.1002/jrsm.11
- [29] Ho, R. C. M., Ong, H. S., Kudva, K. G., **Cheung, M. W.-L.**, & Mak, A. (2010). How to critically appraise and apply meta-analyses in clinical practice. *International Journal of Rheumatic Diseases*, 13 (4), 294-299. doi: 10.1111/j.1756-185X.2010.01560.x
- [28] **Cheung, M. W.-L.** (2010). Fixed-effects meta-analyses as multiple-group structural equation models. *Structural Equation Modeling: A Multidisciplinary Journal*, 17 (3), 481-509. doi: 10.1080/10705511.2010.489367
- [27] Mak, A., **Cheung, M. W.-L.**, Fu, E. H. Y., & Ho, R. C. M. (2010). Meta-analysis in medicine: An introduction. *International Journal of Rheumatic Diseases*, 13 (2), 101-104. doi: 10.1111/j.1756-185X.2010.01471.x
- [26] Mak, A., **Cheung, M. W.-L.**, Cheak, A. A. C., & Ho, R. C. M. (2010). Combination of heparin and aspirin is superior to aspirin alone in enhancing live births in patients with recurrent pregnancy loss and positive antiphospholipid antibodies: A meta-analysis of randomized controlled trials and meta-regression. *Rheumatology*, 49 (2), 281-288. doi: 10.1093/rheumatology/kep373
- [25] Mak, A., **Cheung, M. W.-L.**, Ho, R. C. M., Cheak, A. A. C., & Lau, C. S. (2009). Bisphosphonates and atrial fibrillation: Bayesian meta-analyses of randomized controlled trials and observational studies. *BMC Musculoskeletal Disorders*, 10:113. doi: 10.1186/1471-2474-10-113
- [24] **Cheung, M. W.-L.** (2009). Comparison of methods for constructing confidence intervals of standardized indirect effects. *Behavior Research Methods*, 41 (2), 425-438. doi: 10.3758/BRM.41.2.425
- [23] **Cheung, M. W.-L.** (2009). Constructing approximate confidence intervals for parameters with structural equation models. *Structural Equation Modeling: A Multidisciplinary Journal*, 16 (2), 267-294. doi: 10.1080/10705510902751291
- [22] **Cheung, M. W.-L.**, & Chan, W. (2009). A two-stage approach to synthesizing covariance matrices in meta-analytic structural equation modeling. *Structural Equation Modeling: A Multidisciplinary Journal*, 16 (1), 28-53. doi: 10.1080/10705510802561295
- [21] **Cheung, M. W.-L.** (2008). A model for integrating fixed-, random-, and mixed-effects meta-analyses into structural equation modeling. *Psychological Methods*, 13 (3), 182-202. doi: 10.1037/a0013163
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- [19] **Cheung, M. W.-L.**, Wong, P. W. C., Liu, K. Y., Yip, P. S. F., Fan, S. Y. S., & Lam, T. H. (2008). A study of sexual satisfaction and frequency of sex among Hong Kong Chinese couples. *Journal of Sex Research*, 45 (2), 129-139. doi: 10.1080/00224490801987416 (Portion of the paper was reprinted as **Cheung, M. W.-L.**, Yip, P. S. F., Fan, S. Y. S., & Lam, T. H. (2012). Marital satisfaction among Hong Kong couples. *Hong Kong Medical Journal*, 18 (Supplement 6), S25-26.)
- [18] Lau, P. W. C., **Cheung, M. W.-L.**, & Ransdell, L. B. (2008). A structural equation model of the relationship between body perception and self-esteem: Global physical self-concept as the mediator. *Psychology of Sport and Exercise*, 9 (4), 493-509. doi: 10.1016/j.psychsport.2007.07.005
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- [12] **Cheung, M. W.-L.**, Leung, K., & Au, K. (2006). Evaluating multilevel models in cross-cultural research: An illustration with social axioms. *Journal of Cross-Cultural Psychology*, 37 (5), 522-541. doi: 10.1177/0022022106290476
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## ARTICLES IN EDITED BOOKS, ENCYCLOPEDIA, AND PROCEEDINGS

- [7] Becker, B. J., Aloe, A. M., & **Cheung, M. W.-L.** (in press). Meta-analysis of correlation matrices and structural equation models. In C. H. Schmid, T. Stijnen, & I. R. White (Eds.), *Handbook of Meta-Analysis*. CRC Press.
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## CONFERENCE PRESENTATIONS

- [54] **Cheung, M. W.-L.** (Jul, 2019). *Handling missing covariates in mixed-effects meta-analysis with Full-Information Maximum Likelihood*. Paper presented at the 14th Annual Meeting of the Society for Research Synthesis Methodology, Chicago, USA.
- [53] **Cheung, M. W.-L.** (Dec, 2018). *A general meta-analytic model for independent and dependent effect sizes*. Paper presented at the ACSPRI Social Science Methodology Conference 2018, Sydney, Australia.
- [52] Chua, M. H. Y., Ng, I. A. T., **Cheung, M. W.-L.** & Mak, A. (Oct, 2018). *Association between cigarette smoking and systemic lupus erythematosus - a Bayesian multivariate meta-analysis of case-control and cohort studies*. Paper presented at the 2018 ACR/ARHP Annual Meeting, Chicago, USA.
- [51] Jak, S., & **Cheung, M. W.-L.** (Jul, 2018). *Meta-analytic structural equation modeling with moderator variables*. Paper presented at the 13th Annual Meeting of the Society for Research Synthesis Methodology, Bristol, UK.
- [50] **Cheung, M. W.-L.** (Jun, 2018). *Modelling non-independent effect sizes in meta-analysis*. Paper presented at the International Symposium on Education and Social Sciences, Okinawa, Japan.
- [49] **Cheung, M. W.-L.** (Jun, 2018). *Bridging meta-analysis and standard statistical methods*. **Invited keynote address** presented at the Research Synthesis 2018 organized by the Leibniz Institute for Psychology Information (ZPID), Trier, Germany.
- [48] **Cheung, M. W.-L.** (Jun, 2018). *Testing model-driven hypotheses with Big Data*. **Invited keynote address** presented at the Big Data in Psychology 2018 organized by the Leibniz Institute for Psychology Information (ZPID), Trier, Germany.
- [47] **Cheung, M. W.-L.** (Nov, 2017). *Evidence-based education with meta-analysis*. Poster presented at the WERA Focal Meeting & HKERA International Conference 2017, Hong Kong SAR, China.
- [46] **Cheung, M. W.-L.**, & Jak, S. (Jul, 2017). *A simulation study on meta-analytic structural equation modeling under random-effects model*. Paper presented at the 12th Annual Meeting of the Society for Research Synthesis Methodology, Montreal, Canada.
- [45] Jak, S. & **Cheung, M. W.-L.** (Jul, 2017). *Accounting for missing correlation coefficients in fixed-effects meta-analytic structural equation modeling*. Paper presented at the 12th Annual Meeting of the Society for Research Synthesis Methodology, Montreal, Canada.
- [44] **Cheung, M. W.-L.** (Mar, 2017). *Synthesizing research findings in psychology with meta-analysis*. **Invited keynote address** at the 6th Annual International Conference on Cognitive and Behavioral Psychology, Singapore.
- [43] **Cheung, M. W.-L.**, & Jak, S. (Dec, 2016). *Analysis of big data in social, educational and behavioral sciences*. Poster presented at the 4th Asia-Pacific Conference on Business & Social Sciences, Hong Kong SAR, China.
- [42] **Cheung, M. W.-L.** (Jul, 2016). *Integrating meta-analysis within structural equation modeling: Theories and applications*. **Invited talk** presented at the International Meeting of Psychometric Society 2016, Asheville, NC, USA.

- [41] **Cheung, M. W.-L.** (Jun, 2016). *Meta-analysis: A structural equation modeling approach*. Paper presented at the 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong SAR, China.
- [40] Sigerson, L., Li, A. Y.-L., **Cheung, M. W.-L.**, & Cheng, C. (May, 2016). *Information technology addiction: A general problem or a spectrum of problems?* Poster presented at the Association for Psychological Science 28st Annual Convention, Chicago, IL, USA.
- [39] Li, A. Y.-L., Sigerson, L., Cheng, C., & **Cheung, M. W.-L.** (May, 2016). *Information technology addiction as an addiction on its own or manifestation of emotional problems: A confirmatory factor analytic approach*. Poster presented at the Association for Psychological Science 28st Annual Convention, Chicago, IL, USA.
- [38] Tang, R., & **Cheung, M. W.-L.** (Aug, 2015). *Testing theoretical models with the two-stage meta-analytic structural equation modeling*. Paper presented at the Academy of Management Annual Meeting, Vancouver, Canada.
- [37] **Cheung, M. W.-L.**, & Jak, S. (Jul, 2015). *A guide to analyzing big data in Psychology: A meta-analytic approach*. Paper presented at the 10th Annual Meeting of the Society for Research Synthesis Methodology, Nashville, TN, USA.
- [36] Hong, R. Y., & **Cheung, M. W.-L.** (Mar, 2015). *A common core vulnerability factor to depression and anxiety: Evidence from a meta-analytic review*. Poster presented at the International Convention of Psychological Science 2015, Amsterdam, the Netherlands.
- [35] **Cheung, M. W.-L.** (May, 2014). *Conducting analyses on matrices of meta-analytic correlations*. **Invited panel discussion** at the 29th Annual Society for Industrial and Organizational Psychology Conference, Honolulu, Hawaii.
- [34] Jak, S., **Cheung, M. W.-L.**, & Oort, F. (Mar 2014). *Modelling heterogeneity in meta-analytic SEM*. Paper presented at the Meeting of the Working Group Structural Equation Modeling, Goethe University, Frankfurt, Germany.
- [33] **Cheung, M. W.-L.** (Jun, 2013). *Modeling dependent effect sizes with three-level meta-analysis: A structural equation modeling approach*. Paper presented at the 8th Annual Meeting of the Society for Research Synthesis Methodology, Providence, Rhode Island.
- [32] **Cheung, M. W.-L.** (Jul, 2011). *metaSEM: An R package to conducting meta-analysis using structural equation modeling*. Paper presented at the 17th International Meeting of the Psychometric Society, Hong Kong SAR, China.
- [31] Mak, A., **Cheung, M. W.-L.**, & Ho, R. C. (May, 2011). *Global trend of survival and damage of systemic lupus erythematosus: A meta-analysis and meta-regression of observational studies from 1950 to 2010*. Paper presented at the Annual European Congress of Rheumatology EULAR 2011, London, United Kingdom.
- [30] **Cheung, M. W.-L.** (Jul, 2010). *Computing common effect sizes and their asymptotic sampling variances for meta-analysis in structural equation models*. Poster presented at the 27th International Congress of Applied Psychology, Melbourne, Australia.
- [29] Cheung, S. F., & **Cheung, M. W.-L.** (Jul, 2010). *Random effects models for meta-analytic structural equation modeling*. Paper presented at the 7th Conference of the International Test Commission, Hong Kong SAR, China.
- [28] **Cheung, M. W.-L.** (May, 2009). *Modeling multivariate effect sizes with structural equation models*. Paper presented at the Association for Psychological Science 21st Annual Convention, San Francisco, CA, USA.
- [27] **Cheung, M. W.-L.** (Jul, 2008). *A model for integrating fixed-, random-, and mixed-effects meta-analyses into structural equation modeling*. Paper presented at the 29th International Congress of Psychology, Berlin, Germany.

- [26] Lau, P. W. C., **Cheung M. W.-L.**, Ransdell, L., Wong, P. & Luk, T. C. (Nov, 2007). *Chinese children's pedometer-determined physical activity patterns during the segmented school day*. Poster presented at the New Horizons in Nutrition & Public Health, 10 Anniversary Symposium of Centre for Nutritional Studies, School of Public Health, The Chinese University of Hong Kong, Hong Kong SAR, China.
- [25] **Cheung, M. W.-L.**, Yip, P. S. F., Fan, S. Y. S., & Lam, T. H. (Sep, 2007). *A study of sexual satisfaction and frequency of sex among Hong Kong Chinese couples*. Poster presented at the Health Research Symposium 2007, Hong Kong SAR, China.
- [24] **Cheung, M. W.-L.** (Jul, 2007). *Is meta-analysis a structural equation model? The case of fixed effects models*. Paper presented at the 15th International Meeting of the Psychometric Society, Tokyo, Japan.
- [23] Lau, P. W. C., & **Cheung, M. W.-L.** (Feb, 2007). *Intervention study for Chinese overweight children- Effects on exercise behavior and physical self satisfaction*. Paper presented at the 4th Asia-Oceania Conference on Obesity, Seoul, Korea.
- [22] **Cheung, M. W.-L.** (Dec, 2006). *Analyzing mediating effects in social sciences*. Paper presented at the ACSPRI Social Science Methodology Conference 2006, Sydney, Australia.
- [21] Lau, P. W. C., & **Cheung, M. W.-L.** (Oct, 2006). *The influence of body ratings to peer relationships and physical self-concept in Chinese primary children*. Paper presented at the 5th SCSEPF Annual Conference, the Society of Chinese Scholars on Exercise Physiology and Fitness, Tianjin, China.
- [20] Lau, P. W. C., Fox, K. R., & **Cheung, M. W.-L.** (Jul, 2006). *A longitudinal study of sport identity as a mediator of children's participation in sport*. Paper presented at the 11th Annual Congress of European College of Sport Science, Lausanne, Switzerland.
- [19] **Cheung, M. W.-L.**, & Wong, K. C. (Jun, 2006). *Effects of the round-off errors reported in primary studies on the results of a meta-analysis*. Paper presented at the 2006 Research Methods Division in Asia, Academy of Management Regional Conference, Hong Kong SAR, China.
- [18] Lau, P. W. C., **Cheung, M. W.-L.**, & Ransdell, L. (Dec, 2005). *Sport identity and sport participation: A cultural comparison between collective and individualistic societies*. Paper presented at the 4th Society of Chinese Scholars on Exercise Physiology and Fitness Annual Conference, Taiwan.
- [17] **Cheung, M. W.-L.** (Jul, 2005). *A general approach to constructing confidence intervals for many multivariate techniques: A structural equation modeling approach*. Paper presented at the 14th International Meeting of the Psychometric Society, Tilburg, the Netherlands.
- [16] Wong, K. C., & **Cheung, M. W.-L.** (Jun, 2005). *Effects of the number of decimal places reported in primary studies on met-analysis: A Monte Carlo simulation study*. Poster presented at the Annual Conference of the Hong Kong Psychological Society, Hong Kong SAR, China.
- [15] **Cheung, M. W.-L.**, & Au, K. (Jun, 2005). *Analyzing nested data with hierarchical linear models: An illustration with trust across 42 countries*. Paper presented at the Annual Conference of the Hong Kong Psychological Society, Hong Kong SAR, China.
- [14] Wu, K. K., **Cheung, M. W.-L.**, Chan, K. S., & Fung, Y. W. (May, 2005). *Posttraumatic stress after road traffic accident: A six-month follow-up study*. Poster presented at the Hospital Authority Convention 2005, Hong Kong SAR, China.

- [13] **Cheung, M. W.-L.** (May, 2005). *Testing research hypotheses with structural equation models: An illustration with PROC CALIS*. Paper presented at the SAS Academic User Group Conference, Hong Kong SAR, China.
- [12] Au, T. K. F., Ip, G. W. M., Ho, J. Y. S., Lam, C. Y. Y., Chan, S. M. K., & **Cheung, M. W.-L.** (Apr, 2005). *What causes colds/flu? A study of Chinese children and older adults' folk beliefs*. Poster presented at the 2005 Society for Research in Child Development Biennial Meeting, Atlanta, Georgia, U.S.A.
- [11] Lau, P. W. C., & **Cheung, M. W.-L.** (Oct, 2004). *The effects of resistance training on obese adolescents' physical activity level and physical self-perception*. Poster presented at the 3rd Society of Chinese Scholars on Exercise Physiology and Fitness Annual Conference, Sozhow, China.
- [10] Lau, P. W. C., **Cheung, M. W.-L.**, & Ransdell, L. (Jul, 2004). *Measurement properties of subscales of the Physical Self-Descriptive Questionnaire in Chinese children*. Paper presented at the 2nd International Conference for Physical Educators, Hong Kong SAR, China.
- [9] **Cheung, M. W.-L.**, Leung, K., & Au, K. (Jul, 2004). *A multilevel structural equation model on the Social Axioms*. Paper presented at the 2004 Academy of International Business Annual Conference, Stockholm, Sweden.
- [8] Ho, J. Y. S., Au, T. K. F., Ip, G. W. M., Chan, S. M. K., Lam, C. Y. Y., & **Cheung, M. W.-L.** (Jun, 2004). *Children and older adults' folk beliefs about colds/flu*. Poster presented at the Annual Conference of the Hong Kong Psychological Society, Hong Kong SAR, China.
- [7] **Cheung, M. W.-L.** (Jun, 2004). *Testing dependent and independent correlational hypotheses via structural equation modeling*. Paper presented at the Annual Conference of the Hong Kong Psychological Society, Hong Kong SAR, China.
- [6] **Cheung, M. W.-L.** (Jul, 2003). *Recovering preipsative latent factor scores from ipsative measures: A simulation study*. Paper presented at the 13th International Meeting of the Psychometric Society, Sardinia, Italy.
- [5] **Cheung, M. W.-L.**, & Chan, W. (Jul, 2002). *Meta-analysis of correlation matrices for structural equation models: A multi-sample structural equation modeling approach*. Paper presented at the 25th International Congress of Applied Psychology, Singapore.
- [4] Au, K., & **Cheung, M. W.-L.** (Jul, 2002). *Hierarchical linear modeling on affective orientation and Pro-social behaviors: A secondary analysis on 42 societies of the World Values Survey*. Paper presented at the 25th International Congress of Applied Psychology, Singapore.
- [3] **Cheung, M. W.-L.**, & Chan, W. (Jun, 2001). *Psychometric properties of graphic scales: Some applications on Internet research measurement*. Poster presented at the Annual Conference of the Hong Kong Psychological Society, Hong Kong SAR, China.
- [2] **Cheung, M. W.-L.**, & Chan, W. (Jul, 2000). *Reducing uniform response bias with ipsative measurement in the content of confirmatory factor analysis*. Paper presented at the International Association for Cross-Cultural Psychology XVth Congress, Pultusk, Poland.
- [1] Au, K., & **Cheung, M. W.-L.** (Jul, 2000). *Determinants and consequences of intra-cultural variation- A 42 country study on job control and job satisfaction*. Paper presented at the International Association for Cross-Cultural Psychology XVth Congress, Pultusk, Poland.

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## COMPUTER PROGRAMS

- [3] **Cheung, M. W.-L.** (2020). metaSEM: Meta-analysis using Structural Equation Modeling. R package version 1.2.4. Retrieved from <http://cran.r-project.org/package=metaSEM>
- [2] **Cheung, M. W.-L.** (2009). TSSEM: A LISREL syntax generator for two-stage structural equation modeling (Version 1.11) [Computer software]. Retrieved from <http://courses.nus.edu.sg/course/psycwlm/internet/tssem.zip>.
- [1] **Cheung, M. W.-L.** (2003). MetaAnalysisCorr: An SAS/IML program to synthesize correlation matrices with Hunter and Schmidt, Hedges and Olkin, and Generalized Least Squares approaches. *Applied Psychological Measurement*, 27, 234-235. doi: 10.1177/0146621603027003004

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## FUNDED RESEARCH PROJECTS

- 2019 - 2020 Mass-interpersonal communication and opinion climate perception on individual risk perception and evaluation on social media (Role: Collaborator) (Principal investigator: Dr. Elmie Nekmat). Funded by the IPUR Research Grant, Singapore. SGD 24,000 (convert to USD)
- 2017 - 2020 Advances in Five-Factor Model of personality with meta-analysis (Role: Sole investigator). Funded by the Academic Research Fund Tier 1, Ministry of Education, Singapore. SGD 20,877 (convert to USD)
- 2017 - 2019 Analysis of Big Data with multivariate statistics in social and behavioral sciences (Role: Principal investigator). Funded by the Humanities and Social Sciences (HSS) Seed Fund, National University of Singapore, Singapore. SGD 20,000 (convert to USD)
- 2017 - 2019 Animated electronic storybook and children's mother tongue development: Tracing the process and the outcome with eyetracking (Role: Collaborator) (Principal investigator: Dr. He Sun). Funded by the Office of Education Research, National Institute of Education, Singapore. SGD 99,668 (convert to USD)
- 2015 - 2016 Blended Learning Initiative (Role: Sole investigator). Funded by the Provost Office, National University of Singapore, Singapore. SGD 10,000 (convert to USD)
- 2014 - 2017 New approaches to random-effects meta-analytic structural equation modeling (Role: Sole investigator). Funded by the Academic Research Fund Tier 1, Ministry of Education, Singapore. SGD 30,420 (convert to USD)
- 2013 - 2015 FASS book grant scheme (Role: Sole investigator). Funded by the Faculty of Arts and Social Sciences, NUS, Singapore. SGD 5,214.80 (convert to USD)
- 2012 - 2015 Toward a cultural approach to the study of perceived control and psychological adjustment (Role: Co-investigator) (Principal investigator: Prof. Cecilia Cheng). Funded by the Competitive Earmarked Research, Hong Kong.
- 2012 - 2014 Early genetic, environmental and behavioural predictors of autistic traits in pre-school children (Role: Co-investigator) (Principal investigator: Dr. Iliana Magiati). Funded by the Academic Research Fund Tier 1, Ministry of Education, Singapore.
- 2012 - 2013 Award for excellent researcher. Awarded by the Faculty of Arts & Social Sciences, NUS. SGD 5,000 (in USD)
- 2010 - 2014 Methodological advances in testing mediating and indirect effects (Role: Sole investigator). Funded by the Academic Research Fund Tier 1, Ministry of Education, Singapore. SGD 32,000 (convert to USD)

- 2010 - 2013 Effects of early maternal employment on cognitive and behavioral development (Role: Co-investigator) (Principal investigator: Dr. Catherine Wing-chee So). Funded by the Academic Research Fund Tier 1, Ministry of Education, Singapore.
- 2006 - 2010 Enriching the language environment of children learning a second language (Role: Co-investigator) (Principal investigator: Prof. Terry Kit-fong Au). Funded by the Competitive Earmarked Research Grant, Hong Kong.
- 2006 - 2010 Methodological development in meta-analytic structural equation modeling (Role: Sole investigator). Funded by the Academic Research Fund Tier 1, Ministry of Education, Singapore. SGD 56,687 (convert to USD)
- 2006 - 2007 Violence among individuals with psychotic illnesses: Prevalence and correlates (Role: Co-investigator) (Principal investigator: Dr. Sandra Kit-man Tsang). Funded by the Seed Funding for Basic Research, HKU.
- 2005 - 2007 A multi-method approach to evaluate the effectiveness of the statistical methods on controlling response bias (Role: Sole investigator). Funded by the Seed Funding for Basic Research, HKU. HKD 40,000 (convert to USD)
- 2005 - 2006 A study of marital satisfaction among Hong Kong couples (Role: Principal investigator). Funded by the Health and Health Services Research Fund, Hong Kong SAR Government. HKD 193,968 (convert to USD)
- 2004 - 2006 A meta-analytic study on the higher-order factors of the Five-Factor Model (Role: Sole investigator). Funded by the Seed Funding for Basic Research, HKU. HKD 60,000 (convert to USD)
- 2003 - 2005 Factor structures of general beliefs across cultures: A multilevel approach (Role: Principal investigator). Funded by the Faculty Allocation of University Development Fund, HKU. HKD 100,000 (convert to USD)

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## FUNDED RESEARCH CONTRACTS

- 2003 - 2005 Development and validation of clinical risks and needs evaluation measures for offenders (Role: Co-investigator) (Principal investigator: Prof. Patrick W. L. Leung). Funded by Correctional Services Department, HKSAR Government.
- 2003 - 2005 Consultancy on the development of prevention and treatment programs for offenders with problems of psychotropic substance abuse (Role: Co-investigator) (Principal investigators: Prof. Tatia M. C. Lee and Dr. Karen Joe Laidler). Funded by Commissioner of Correctional Services, Correctional Services Department, HKSAR Government.

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## PROFESSIONAL MEMBERSHIPS

- Elected member Society for Research Synthesis Methodology
- Member Psychometric Society
- Professional affiliate Division 5 (Quantitative and Qualitative Methods), American Psychological Association

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## EDITORIAL POSITIONS

- 2019 - present *Methods in Psychology*: Editorial board
- 2019 - present *Zeitschrift für Psychologie*: Editorial board
- 2017 - present *Health Psychology Review*: Research methods and data analysis editorial board
- 2017 - present *Psychological Bulletin*: Consulting editor (editorial board)
- 2017 - present *Journal of Management*: Editorial board and methods task force

- 2017 - present *Neuropsychology Review*: Associate editor
- 2017 - present *Research Synthesis Methods*: Associate editor
- 2011 - present *SpringerBriefs in Research Synthesis and Meta-Analysis* (published by Springer): Series editor (with Michael Bosnjak and Wolfgang Viechtbauer)
- 2014 - 2019 *Frontiers in Psychology* (Quantitative Psychology and Measurement section) and *Frontiers in Applied Mathematics and Statistics* (Quantitative Psychology and Measurement section): Associate editor
- 2011 - 2019 *Psychological Methods*: Consulting editor (editorial board)
- 2017 - 2018 *Zeitschrift für Psychologie*: Guest co-editor (with Suzanne Jak) for the special issue "Big Data in Psychology: Methods and Applications"
- 2016 - 2017 *Neuropsychology Review*: Editorial board
- 2013 - 2016 *Research Synthesis Methods*: Editorial board, ad-hoc action editor, and guest co-editor (with Adam R. Hafdahl) for the special issue "Meta-Analytic Structural Equation Modeling"
- 2010 - 2012 *Educational Researcher*: Editorial board
- 2007 - 2011 *Journal of Psychology in Chinese Societies*: Associate editor
- 2004 - 2008 *Journal of Psychology in Chinese Societies*: Managing editor

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## REVIEWERS FOR JOURNALS, PUBLISHERS, GRANTS, ORGANIZATION, CONFERENCES, DISSERTATIONS, AND TENURE AND PROMOTION

- Methodology and Statistics (21 journals) *Advances in Methods and Practices in Psychological Science, Applied Psychological Measurement, Behavior Research Methods, BMC Medical Research Methodology, British Journal of Mathematical and Statistical Psychology, Communications in Statistics - Theory and Methods, Educational and Psychological Measurement, Frontiers in Psychology* (Quantitative Psychology and Measurement), *International Journal of Testing, Journal of Educational and Behavioral Statistics, Journal of Modern Applied Statistical Methods, Methodology, Methods in Psychology, Multivariate Behavioral Research, Organizational Research Methods, Oxford Bulletin of Economics & Statistics, Psychological Methods, Research Synthesis Methods, Sociological Methodology, Sociological Methods and Research*, and *Structural Equation Modeling: A Multidisciplinary Journal*



Psychology, Education, Social, Management, and Medical Sciences (57 journals)	<i>American Journal of Community Psychology, Applied Psychology: An International Review, Asia Pacific Journal of Education, Asia Pacific Journal of Management, Asian Journal of Social Psychology, BMC Research Notes, BMJ Open, Child Development, Communication Research Reports, Comprehensive Psychiatry, Developmental Psychology, Ecology Letters, Educational Psychology, Educational Psychology Review, Educational Researcher, Epilepsia, European Sociological Review, Health and Quality of Life Outcomes, Health Psychology Review, Information &amp; Management, International Journal of Public Opinion Research, International Journal of Rheumatic Diseases, Journal of Abnormal Psychology, Journal of Adolescence, Journal of Applied Psychology, Journal of Child and Family Studies, Journal of Counseling Psychology, Journal of Cross-Cultural Psychology, Journal of Environmental Psychology, Journal of Experimental Education, Journal of Management, Journal of Management Information Systems, Journal of Personality, Journal of Personality and Social Psychology, Journal of Personnel Psychology, Journal of Psychology in Chinese Societies, Journal of Quantitative Criminology, Journal of Research in Personality, Journal of Sex Research, Journal of Social and Personal Relationships, Journal of Strategic Information Systems, Learning and Individual Differences, Management Science, Neuropsychology Review, Personnel Review, Perspectives on Psychological Science, Prevention Science, Psychological Bulletin, Psychopathology Review, Psychotherapy and Psychosomatics, Quality of Life Research, Research on Aging, Review of Educational Research, Scientific Reports, Social Science &amp; Medicine, Stress and Health, and Zeitschrift für Psychologie</i>
Funding agents	National Science Foundation (The Methodology, Measurement, and Statistics Program) Competitive Earmarked Research Grant by Research Grants Council of Hong Kong The Netherlands Organisation for Scientific Research (NWO) Education Research Funding Programme (ERFP) Expert Panel, National Institute of Education (NIE), Nanyang Technological University (NTU), Singapore (2019-2022)
Organization	The Campbell Collaboration
Conferences	American Educational Research Association, Reviewer for Division D in-progress research gala: 2009, 2010, 2011 Annual American Psychological Association Convention, Reviewer for Division 5: 2005 The Annual Conference of the International Test Commission, International advisory panel: 2010, 2015
Publishers	Guilford Press, Routledge, Wiley
External reviewer for tenure and promotion	National Institute of Education, Singapore; Hong Kong Polytechnic University; Singapore Management University; University of Macau
PhD Dissertations	Hong Kong Institute of Education; University of Alberta; University of Hong Kong

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## VISITING SCHOLARS

6 - 13 Jun 2018	The Leibniz Institute for Psychology Information (ZPID), Trier, Germany
4 - 5 Jun 2018	Research Institute of Child Development and Education, University of Amsterdam, the Netherlands
26 Feb - 2 Mar 2018	Department of Counselling and Psychology, Hong Kong Shue Yan University, Hong Kong
10 - 17 Sep 2017	School of Commerce, University of South Australia, Adelaide, Australia
19 - 30 Jun 2017	GESIS, Mannheim, Germany

5 - 8 Oct 2015	The Centre for Educational Measurement, University of Oslo, Norway
27 - 28 Aug 2015	Department of Social Work and Social Administration, HKU
21 May - 3 Jun 2014	Faculty of Education, HKU
17 - 18 Jul 2013	Department of Educational Psychology, Counselling and Learning Needs, The Hong Kong Institute of Education, Hong Kong
28 Feb - 1 Mar 2011	Department of Social Work and Social Administration, HKU
17 - 18 May 2010	Department of Psychology, HKU
22 - 23 Jan 2009	Department of Educational Psychology, Counselling and Learning Needs, The Hong Kong Institute of Education, Hong Kong
7 - 19 Jul 2008	Department of Methodology and Statistics, University of Maastricht, the Netherlands

## TEACHING EXPERIENCE

NUS: 2006 - present	Introduction to Psychology (team teaching) Research and statistical methods I (undergraduate) Research and statistical methods II (undergraduate) Analysis of psychological data using general linear models (postgraduate) Multivariate statistics in psychology (postgraduate) Psychometrics and psychological testing (postgraduate) Structural equation modeling (postgraduate)
HKU: 2002-2006	Research methods and statistics I (postgraduate) Research methods and statistics II (postgraduate) Research methods of social research (postgraduate; team teaching) Research methods in psychology (undergraduate) Thesis in psychology (undergraduate; team teaching)
CUHK (tutorials): 1997-2002	Research methods I (postgraduate) Research methods II (postgraduate) Psychological testing (undergraduate)

## SUPERVISORY EXPERIENCE

Post-doc fellow	Dr. Suzanne Jak (2015; funded to Dr. Jak by the Rubicon grant)
PhD	Ranjith Vijayakumar (2015-2019), Gerard Yeo (2020-present)
Concurrent degree program (BSSc and M.Soc.Sci.)	Aaron Lim (2018-2019)
M.Soc.Sci.	Lim Yonghao (2010-2013), Melvin Sim (2019-present)
Honor theses	14 students
HKU	1 Master of clinical psychology (co-supervision) and 25 honor theses

## INVITED TALKS

Oct 2017	School of Social Sciences, Singapore Management University
Sep 2017	Business School, University of Adelaide, Adelaide, Australia

Sep 2017	School of Commerce, University of South Australia, Adelaide, Australia
Mar 2017	Centre for Family and Population Research, FASS, NUS
May 2016	Saw Swee Hock School of Public Health, NUS
May 2016	Centre for Quantitative Medicine at the Duke-NUS Medical School, Singapore
Jun 2015	Department of Management & Organisation, NUS
May 2010	Department of Psychological Studies, The Hong Kong Institute of Education, Hong Kong
Mar 2008	School of Social Sciences, Singapore Management University
Feb 2006	Department of Psychology, CUHK
Jan 2006	Department of Psychology, HKU
Nov 2005	Department of Psychology, NUS
Dec 2003	Department of Psychology, HKU
Jun 2002	Department of Psychology, HKU

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## STATISTICAL CONSULTING EXPERIENCE

I occasionally provide statistical training and consultation to various companies and institutions.

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## SPEAKER FOR WORKSHOPS ON STATISTICS TRAINING

Sep 2019	A three-day workshop on <b>multilevel modeling using R</b> , Office of Education Research, National Institute of Education (NIE), Nanyang Technological University (NTU), Singapore
Dec 2018	A half-day workshop on <b>conducting meta-analytic structural equation modeling with R</b> at the ACSPRI Social Science Methodology Conference 2018, Sydney, Australia.
2016, 17, 18	A three-day workshop on <b>structural equation modeling with R</b> , the Centre for Family and Population Research, NUS
Jun 2018	A half-day post-conference workshop on <b>testing model-driven hypotheses with Big Data with R</b> at the Big Data in Psychology 2018 organized by the Leibniz Institute for Psychology Information (ZPID), Trier, Germany.
Jun 2018	A half-day workshop on <b>conducting meta-analytic structural equation modeling with R</b> at the Research Institute of Child Development and Education, University of Amsterdam, the Netherlands.
May 2018	A two-day workshop on <b>reliability and validity of measurement in scale development with R</b> , the Centre for Family and Population Research, NUS
2016, 17	A three-day workshop on <b>multilevel modeling with R</b> , the Centre for Family and Population Research, NUS
Jun 2017	A two-day workshop on <b>meta-analysis using structural equation modeling</b> , GESIS, Mannheim, Germany
Jun 2017	A two-day workshop on <b>analysis of missing data with R</b> , the Centre for Family and Population Research, NUS
May 2016	A two-day workshop on <b>analysis of missing data</b> , the Lee Kuan Yew School of Public Policy, NUS
Oct 2015	A two-day workshop on <b>meta-analysis using structural equation modeling</b> , the Centre for Educational Measurement and the Department of Special Needs Education, University of Oslo, Norway

- Aug 2015 A two-day workshop on **multilevel modeling and structural equation modeling with R**, Department of Social Work & Social Administration, HKU
- Aug 2015 A three-day workshop on **structural equation modeling with R**, the Lee Kuan Yew School of Public Policy, NUS
- Jul 2015 A three-day workshop on **multilevel modeling with R**, the Centre for Family and Population Research, NUS
- Feb 2015 A three-day workshop on **structural equation modeling with Mplus**, Ministry of Education, Singapore
- Sep 2014 A two-day workshop on **structural equation modeling and latent growth models with R**, the Centre of Regulatory Studies, University of Malaya, Malaysia
- Dec 2013 A one-day workshop on **structural equation modeling**, Singapore Examinations and Assessment Board
- Jul 2013 A two-day workshop on **structural equation modeling and meta-analysis**, Department of Special Education and Counselling, HKIEd
- Feb 2011 A two-day workshop on **structural equation modeling and latent growth models**, Department of Social Work and Social Administration, and Centre for Suicide Research and Prevention, HKU
- May 2010 A two-day workshop on **structural equation modeling, latent growth models and multilevel models**, Department of Psychology, HKU
- Aug 2009 A half-day workshop (via video conferencing) on **meta-analytic structural equation modeling** at the Summer School on Meta-analysis and Research Synthesis in Personality Psychology organized by the European Association of Personality Psychology and the International Society for the Study of Individual Differences, Castle Oppurg, Germany
- Jan 2009 A two-day workshop on **structural equation modeling and multilevel models**, Department of Educational Psychology, Counselling and Learning Needs, The Hong Kong Institute of Education (HKIEd), Hong Kong

## ADMINISTRATIVE EXPERIENCE AT THE FACULTY AND DEPARTMENTAL LEVELS

### **Faculty of Arts and Social Sciences (FASS), NUS**

- 2020 - present Faculty Research Award Committee
- 2019 - present Faculty Promotion & Tenure Committee I
- 2018 - present Faculty Research Committee
- 2017 - 2018 Faculty Assistant Professor Appointment Committee
- 2014 - 2017 Visiting Research Fellows Selection Committee

### **Department of Psychology, FASS, NUS**

- 2018 - present Deputy head
- Director Undergraduate Programme; Research
- Chair Undergraduate Programme Committee; Research Committee; Department Ethics Review Committee; Search Committee (Teaching assistant hires); Search Committee (Senior hires)
- Member Search Committee (Junior hires, Non-clinical hires, Teaching track hires); Search Committee (Head); Research Graduate Programme Committee; Departmental Review Committee for annual appraisal; Department Evaluation Committee for tenure & promotion

Departmental coordinator	Student Exchange Program; Independent Study Modules; Non-graduating Applications; Level-2000 Modules; Level-4000 Modules
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## COMPUTING EXPERIENCE

General statistical packages	R, SPSS, SAS, and Julia
Specialized statistical packages	EQS, LISREL, Mplus, OpenMx, lavaan, HLM, nlme/lme4 and BUGS/JAGS/STAN
Operating Systems	Linux, Windows, and macOS
Programming languages	C, Python, and Perl
Others	Cygwin, Graphviz, Git, GNU Make, VNC, X2Go, Emacs, Vim, and $\text{\LaTeX}$