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Professor: Curriculum and Instruction

Interim College Master: Moon Chun Memorial College

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PROFESSIONAL QUALIFICATIONS

Education

- Doctor of Philosophy (Science Education), University of London, London, UK [1987 - 89]
- Master of Education (Testing, Measurement and Evaluation), University of Hong Kong, Hong Kong, China [1984]
- Advanced Diploma in Education (Mathematics Education), University of Hong Kong, Hong Kong, China [1983]
- Certificate of Education (Mathematics Education), University of Hong Kong, Hong Kong, China [1981 - 82]
- Bachelor of Science, University of Hong Kong, Hong Kong, China (Major in Mathematics; Minor in Computer Science) [1977 - 1980]

PhD & MEd Dissertation

- Cheung, K.C. (1989). *Product and process modeling for science achievement at the sixth form level in Hong Kong*. Unpublished PhD Thesis, Centre for Educational Studies, King's College, University of London, London, UK.
- Cheung, K.C. (1984). *The validity of the student attitude scales in the Second IEA Science Study*. Unpublished MEd Dissertation, Faculty of Education, University of Hong Kong, Hong Kong, China.

Awards & Scholarships

- Outstanding Monograph/Book Achievement Award (Third Prize) in the Areas of Language, Education and the Arts, The 6th Outstanding Achievement Awards for Macao Research in Humanities and Social Sciences, awarded by Macau Foundation and Social Sciences in China Press (First Author; Monograph/book co-authored with Paper co-authored with P.S. Sit, S.K. Mak, and M.K. Jeong) [2022]
- Excellent Achievement Award in the Areas of Language, Education and the Arts, The 6th Outstanding Achievement Awards for Macao Research in Humanities and Social Sciences, awarded by Macau Foundation and Social Sciences in China Press (Second Author; Paper co-authored with S.K. Mak, M.K. Jeong, and P.S. Sit) [2022]
- UM Faculty Service Award [2017-2020]
- Master's Thesis Supervision of Sou Wa Kit, who studied in the Curriculum and Instruction programme: Young Researcher Award (Social Sciences) from the International Institute of Macau [2020]
- Outstanding Achievement Award (Third Prize) in the Areas of Language, Education and the Arts, The 5th Outstanding Achievement Awards for Macao Research in Humanities and Social Sciences, awarded by Macau Foundation and Social Sciences in China Press (First Author; Paper co-authored with S.K. Mak, P.S. Sit and K.C. Soh) [2019]
- Excellent Monograph/Book Award in the Areas of Language, Education and the Arts, The 5th Outstanding Achievement Awards for Macao Research in Humanities and Social Sciences, awarded by Macau Foundation and Social Sciences in China Press (First Author; Monograph/book co-authored with P.S. Sit, S.K. Mak, and M.K. Jeong) [2019]
- Best Paper Award, The 2017 Global Chinese Conference on Educational Information and Assessment & Chinese Association of Psychological Testing Annual Conference (paper co-authored with S.L. Jin, and P.S. Sit) [2017]
- Best Paper Award, The 2015 Global Chinese Conference on Educational Information and Assessment & Chinese Association of Psychological Testing Annual Conference (paper co-authored with M.K. Jeong, P.S. Sit and S.K. Mak) [2015]
- Excellent Research Paper Award in the Areas of Language, Education and the Arts, The 4th Outstanding Achievement Awards for Macao Research in Humanities and Social Sciences (paper co-authored with M.K. Jeong, P.S. Sit and S.K. Mak) [2015]

- Doctoral Dissertation Supervision of Chan Keng Lim, who was the first PhD graduate of FED of UM: First Prize (Psychology and Education Area) of Cheng Chi University Humanity and Social Sciences Doctoral Dissertation Prize [2013]
- UM Academic Staff Award (Teaching, Research and Services) [2011]
- UM Faculty Service Award [2007-2009]
- K.C. Wong Foundation Visiting Scholar [2004]
- UM Best Teaching Award [2003/04]
- UM Excellent Research Award [2001]
- IEA Bruce H. Choppin Memorial Award (Outstanding PhD Thesis) [1990]
- Commonwealth Academic Staff Scholarship [1987-89]
- Li Po Chun Charitable Trust Fund Scholarship [1973-1977]

Visiting Fellowships:

- Clare Hall, University of Cambridge, U.K. (Organized by DSES of Macao Government) [2019]
- University of Coimbra, Portugal (Organized by DSES of Macao Government) [2018]
- Institute of International Education, University of Stockholm, Sweden (Invited by Emeritus Professor Ingemar Fägerlind) [1988]
- University of Hamburg, Germany (Invited by Professor T.N. Postlewaithe) [1988]
- Science and Mathematics Education Centre, The Curtin University of Technology, Perth, Australia (Invited by Professor Barry Fraser) [1986]

PROFESSIONAL APPOINTMENTS AND SERVICES

Teaching and Research Appointments

- Full Professor (Curriculum & Instruction), Faculty of Education, University of Macau, Macao, China [1/2006 - present]
- Director, Educational Testing and Assessment Research Centre, University of Macau, Macao, China [9/2006 - present]
- National Project Manager, Macao-China PISA Study [9/2006 - present]

- Officer, University of Macau - Beijing Normal University Joint Research Centre [3/2021 – present]
- Senior Research Fellow, Institute of Advanced Studies in Humanities and Social Sciences, University of Macau [9/2021-present]
- Associate Professor, Faculty of Education, University of Macau, Macao, China [3/1998 - 1/2006]
- Assistant Professor, Faculty of Education, University of Macau, Macao, China [9/1992 - 3/1998]
- Assistant Professor (Educational Research/ Psychological Measurement), Centre of Applied Research in Education/ Division of Psychological Studies, National Institute of Education, Nanyang Technological University, Singapore [7/91 - 8/92]
- Assistant Professor (Educational Research/ Mathematics Education), Educational Research Unit, Institute of Education, Singapore [9/89 - 6/91]
- Lecturer (Testing, Measurement and Evaluation/ Mathematics Education), Faculty of Education, University of Hong Kong, Hong Kong, China [9/87 - 8/89]
- Assistant Lecturer (Testing, Measurement and Evaluation/ Mathematics Education), Faculty of Education, University of Hong Kong, Hong Kong, China [2/86-8/87]
- Lecturer (Computer Science), Vocational Training Council, Hong Kong, China [9/85 - 2/86]
- Research Officer (IEA International Science Study), Faculty of Education, University of Hong Kong, Hong Kong, China [9/83 - 8/85]
- Part-time Lecturer (Mathematics), Adult Education Section, Education Department, Hong Kong, China [9/82 - 8/85]
- Graduate Master (Mathematics & Integrated Science), Po Chiu College, Hong Kong, China [9/81 - 8/83]
- Research Assistant (IEA International Mathematics Study), School of Education, University of Hong Kong, Hong Kong, China [8/80 - 9/81]

Other Administrative Appointments at University of Macau, Macao, China

- Interim College Master, Moon Chun Memorial College, University of Macau, Macao, China [7/2022 - present]
- Officer, University of Macau – Beijing Normal University Joint Research Centre for Monitoring of Basic Education Quality (澳門大

學-北京師範大學基礎教育質量監測聯合研究中心 [2/2021 - present]

- Senior Fellow, Pearl Jubilee College, University of Macau, Macao, China [9/2013 – 8/2022]
- Convener, Master of Education (Curriculum & Instruction), University of Macau, Macao, China [9/2008 – 12/2022]
- FED representative, Future Studies and Placement Advisory Committee [8/2014 – 2016]
- Resident Fellow, Pearl Jubilee College, University of Macau, Macao, China [9/2010 - 8/2013]
- Residence Officer/Warden, Student Hostel, University of Macau, Macao, China [9/1992 - 8/2010]
- Acting Director, Educational Research Centre, University of Macau, Macao, China [10/2007 - 3/2008]
- Dean, Faculty of Education, University of Macau, Macao, China [9/1995 - 8/1999]
- Associate Dean, Faculty of Education, University of Macau, Macao, China [6/1995 - 9/1995]

External Examination of PhD Dissertation

- Jinxin Zhu: Predisposing, enabling, and reinforcing factors for Hong Kong primary students' self-regulated learning: The contributions of interest and prior achievement in mathematics, feedback, and personal best goal orientation, Hong Kong Institute of Education, Hong Kong, China [2015].
- Calvin Wilkinson: A Philosophy for the powerful learning of mathematics, Flinders University, Australia [2015].
- Tim Leung: The effects of instruction of creative invention on student's situational interest in physics lesson, The Chinese University of Hong Kong, China [2012].
- Mooi Lee Choo: Modeling the development of affective and cognitive processes in computer programming and their interrelationships, National Institute of Education, Nanyang Technological University, Singapore [1997].
- Trevor Johnson: A multilevel model of Year 12 science achievement in Australia, School of Education, Faculty of Education, Humanities, Law and Theology, The Flinders University of South Australia, Australia [1995].
- Deidra Young: Gender differences in science achievement: Secondary analysis of data from the Second International Science Study, Science and Mathematics Education Centre, The Curtin University of Technology, Australia [1991].

Major Committee Work at University of Macau, Macao, China

- Academic Board Member, Institute of Advanced Studies in Humanities and Social Sciences, University of Macau, Macao, China [3/2020 - present]
- Member, Research Committee, University of Macau [8/2019 - 2020]
- Member, Gifted Education Committee, University of Macau [8/2018 - 2020]
- Chairman, Library Committee, University of Macau [8/2018 - 7/2020]
- Chairman, Supervisory Committee of Affiliated School of University of Macau [8/2012 - present]
- Member, Future Studies and Placement Advisory Committee of the University of Macau [8/2014 - present]
- Member, Faculty-level Academic Staff Promotion Advisory Committee of the University of Macau [9/2009 - present]
- Member, Recruitment Committee for academic staff in FED of the University of Macau [9/2000 - present]
- Member, Senate of the University of Macau [9/1995 - 8/2014]
- Member, University-level Academic Staff Promotion Advisory Committee of the University of Macau [9/2012 - 8/2014]
- Chairman, Management Committee of Affiliated School of University of Macau [9/2006 - 7/2012]
- Member and Vice-chairman, Publishing Advisory Committee of the University of Macau [9/2006 - 9/2011]
- Member, Panel for Chair Professorship in FED of the University of Macau [12/2010]
- Chairman, Academic Council of Faculty of Education of the University of Macau [9/1995 - 8/1999; 9/2001 - 8/2010]
- Member, Recruitment Committee for the recruitment of Vice-Rector (Academic Affairs) and Vice-Rector (Research) of the University of Macau [1/2008 - 6/2008]
- Member, University Council of the University of Macau [9/2006 - 8/2008]

Membership and Professional Services

- The Education University of Hong Kong's Master of Social Sciences in Psychology Programme for academic years [2018-2022] (External Examiner)

- The 2019 & 2020 Item Banking Project of National Reading Assessment, Basic Education Quality Monitoring Centre, Ministry of Education of China (Item Development Expert)
- Building of Talented Professionals for the Monitoring of Educational Standards jointly by Beijing Normal University and University of Macau at MOE's Collaborative Innovation Center of Assessment toward Basic Education Quality during 26/5/2019 – 2/6/2019 [Program organizer and Leading Teacher of FED's postgraduate students]
- International Conference of Advances in STEM Education and Workshop on Coding, Physical Computing and Computational Thinking during 18-20 December 2019 (Program Committee Member)
- Macao Government Non-tertiary Education Mid- to Long-term Ten-Year (2021-2030) Planning Committee [2019-2020] (Consultative Expert)
- The 2019 Chinese National Language Assessment, Collaborative Innovation Center of Assessment toward Basic Education Quality, Beijing Normal University, China (Core Consultative Committee Member)
- Mainland China-PISA 2018, Basic Education Quality Monitoring Centre, Ministry of Education of China (Consultative Expert)
- Doctor of Education Program in the Specialization Area of Educational Measurement and Assessment for Education University of Hong Kong, Hong Kong, China (External Reviewer)
- The 2016-17 Program Area Accreditation (PAA) of Education University of Hong Kong, Hong Kong, China (Mock Panel Member)
- The Education University of Hong Kong UGC Funding Scheme for T&L Related Proposals (2016-19 Triennium) Proposals (External Reviewer)
- The 2017 Chinese National Science Assessment, Collaborative Innovation Center of Assessment toward Basic Education Quality, Beijing Normal University, China (Core Consultative Committee Member)
- Association of North America Higher Education International (Member)
- The Educational Statistics and Measurement Subdivision of Chinese Society of Education (Management Committee Member)
- American Educational Research Association (Member)
- European Association for Research on Learning and Instruction (Member)

- International Group for Mathematical Creativity and Giftedness (Member)
- Steering Committee, Partnership for Improvement in Learning and Teaching Project, Chinese University of Hong Kong, Hong Kong, China (Member)
- Macao Social Sciences Society, Macao, China (Management Committee Member)
- Macao Mathematics Education Research Society, Macao, China (Consultant)
- Academic Affairs Committee of Affiliated School of Macau, Macao, China (Member)
- Instructional Design Award, Bureau of Education and Youth Affairs, Macao Government, Macao, China (Member of Evaluation Panel)
- Comprehensive School Evaluation, Bureau of Education and Youth Affairs, Macao Government, Macao, China (Member of Evaluation Panel: Mathematics)
- Technology for Education and Learning Conference, organized by International Association of Science and Technology for Development, Beijing, China (International Program Committee Member) [2011]
- Technical support rendered to National Educational Examinations Authority of Ministry of Education of China for conducting PISA2009 in China [2009]
- Teacher Professional Development, Macau De Sao Jose College, Macao, China (Mathematics Subject Consultant) [2007 - 2008]
- Development of Learning Indicators for Early Childhood Education in Macao, Bureau of Education and Youth Affairs, Macao Government, Macao, China (Curriculum Consultant) [2007]
- 7th Global Chinese Conference on Computers in Education (7th GCCCE), Nanjing, China (Steering Committee Member; Program Committee Member) [2003]
- Basic Education Curriculum Development, Bureau of Education and Youth Affairs, Macao Government, Macao, China (Curriculum Consultant) [1995 - 1996]

PAST/CURRENT COURSES

- The Evaluation of Mathematics Teaching and Learning (EDUC7176)
- Evaluation of Curriculum, Instruction & Student Performance (IMCN104, EDCI703, EDCI7103, EDUC7103)
- Intelligence and Creativity (IMCN125, IMEP002, EDCI753, EDUC7153)
- Theories of Curriculum and Instruction (Secondary Mathematics) (EDUC223, MAEB216, EDUC1022)
- Research in Mathematics Education (MAEB452)
- Elementary Mathematics Teaching and Research (MAEB421, EDUC2038)
- Educational Evaluation (BIKA113, BIPA113, DRPE207, PPEB350, EDUC3031)

RESEARCH AND PUBLICATIONS

Research Areas

- Curriculum and Instruction
- Educational Assessment
- Educational Evaluation
- Mathematics and Science Education
- Early Childhood Education
- Information, Communication and Technology Education

Research Projects

- Trends in International Mathematics and Science Study (TIMSS) [2023-2025] (Funded by DSEDJ of Macao Government for the Main Study test administration and data collection)
- Macao-PISA 2025 Scientific Literacy Study [2023 - 2026] (Funded by DSEDJ of Macao Government)
- Trends in International Mathematics and Science Study (TIMSS) [2022] (Funded by DSEDJ of Macao Government for the Field Trial test administration and data collection)
- Assessment of Academic Quality for Learning Project [2021-2023] (Funded by Pui Cheng and Choi Kou)
- Macao-PISA 2022 Mathematical Literacy and Creative Thinking Study [2019 - 2023] (Funded by DSEDJ of Macao Government)
- National Reading Item Bank Development Project [2019-2021]

(Funded by National Assessment Centre for Education Quality, Ministry of Education, China)

- Development of tools for the mining and analysis of computerized interactive data in the assessment of scientific literacy of primary and secondary students in China – A strategic science and technology development project of Collaborative Innovation Center of Assessment toward Basic Education Quality, Beijing Normal University, China (Serve as High-end Foreign Expert of Beijing Normal University, i.e. 北京師範大學高端專家(外國/中國境外); Funded by Ministry of Science and Technology of China)
- Macao-PISA 2018 Reading Literacy Study [2016 - 2019] (Funded by DSEJ of Macao Government, China)
- Macao-PISA 2015 Scientific Literacy and Collaborative Problem Solving Study [2013 - 2016] (Funded by DSEJ of Macao Government)
- Macao-PISA 2012 Mathematical Literacy Study [2010 - 2013] (Funded by DSEJ of Macao Government)
- Macao-PISA 2009 Reading Literacy Study [2007 - 2010] (Funded by DSEJ of Macao Government)
- Macao-PISA 2006 Scientific Literacy Study [2004 - 2007] (Funded by DSEJ of Macao Government)
- A survey of examinations and tests in use taken by senior secondary students in Macao, China [2006] (Funded by Research Committee of UM)
- Challenging mathematical problems in the classroom (ICMI-16 Study) [2006 - 2007] (Funded by Research Committee of UM)
- Development of multiple intelligences for babies in subsidized child care centers in Macao, China [2005 - 2006] (Funded by IAS of Macao Government)
- Realistic mathematics education and multiple intelligences inspired education: A study of mathematization in school mathematics (ICMI-15 Study) [2004 - 2005] (Funded by Research Committee of UM)
- New Chinese mathematics curriculum standards (English version for primary/ junior secondary/ senior secondary grades), Basic Education Curriculum Research Centre, China [2004 - 2006] (Funded by Basic Education Curriculum Research Centre, Capital Normal University, Ministry of Education, China)

- Brain-based Recommendations for Intellectual Development and Good Education: A self-rating Study (BRIDGE Study) [2003 - 2006]
(Funded by individual participating schools)
- School-based Multiple Intelligences Learning Evaluation System (SMILES Study) [1999 - 2003]
(Funded by individual participating schools)
- Development of school-based multiple intelligences textbooks and learning materials for kindergartens [1999 - 2006]
(Funded by Crystal Educational Publishing, Hong Kong, China)
- Meaningful measurement of cognitive and psychological processes [1989 - 1992]
(Funded by Center for Applied Research in Education, National Institute of Education, Singapore)
- School and Teacher Effectiveness in Singapore [1989 - 1992]
(Funded by Center for Applied Research in Education, National Institute of Education, Singapore)
- IEA Second International Science Study (Hong Kong, China) [1983 - 1985]
- IEA Second International Mathematics Study (Hong Kong, China) [1980 - 1981]

Editorial Work for Academic Journals

- Chinese/English Journal of Educational Measurement and Evaluation 教育測量與評估雙語季刊(Editorial Board Member) [2020 – present] [Journal of NCME and BNU]
- EURASIA Journal of Mathematics, Science and Technology Education (Associate Editor) [2017 – present] [SSCI/SCOPUS Journal]
- Curriculum and Instruction Quarterly 課程與教學季刊 (Editorial Board Member) [2005 - present] [TSSCI Journal]
- Educational Psychology (Consulting Editor) [2017 – 2020] [SSCI Journal]
- Hong Kong Educational Research Journal 香港教育研究學報 (Editorial Consultant) [2000 - 2016]
- New Horizons in Education 教育曙光 (Editorial Consultant) [2001 - 2014]
- The International Electronic Journal of Mathematics Education (Editorial Board Member) [2006-2008]
- Exploration of Psychology 心理學探新 (Editorial Committee Member) [1999 - 2006] [CSSCI Journal]

Review Work for other Academic Journals

- Asia Pacific Journal of Education [SSCI]
- Asia-Pacific Educational Researcher [SSCI]
- British Journal of Educational Technology [SSCI]
- Chinese Journal of Science Education [TSSCI]
- Cogent Education
- Contemporary Educational Research Quarterly [TSSCI]
- Early Child Development and Care
- Educational Psychology [SSCI]
- Educational Research Review
- Frontiers of Education in China
- International Journal of Science and Mathematics Education [SSCI]
- Learning and Individual Differences [SSCI]
- School Effectiveness and School Improvement: An International Journal of Research, Policy and Practice [SSCI]
- Social Indicators Research [SSCI]

Refereed Journal Articles

- Zheng, J.Q., Cheung, K.C., & Sit, P.S. (2023). Identifying key features of resilient students in digital reading: Insights from a machine learning approach. *Education and Information Technologies*. [DOI: 10.1007/s10639-023-11908-0] [SSCI; SCOPUS; Web of Science; Google Scholar]
- Zheng, J.Q., Cheung, K.C., & Sit, P.S. (2023). The effects of perceptions toward interpersonal relationships on collaborative problem-solving competence: Comparing four ethnic Chinese communities assessed in PISA 2015. *The Asia-Pacific Education Researcher*. [DOI:10.1007/s40299-023-00744-y] [SSCI; SCOPUS; Web of Science; Google Scholar]
- Zheng, J.Q., Cheung, K.C., Sit, P.S. (2022). Insights from two decades of PISA-related studies in the new century: A systematic review. *Scandinavian Journal of Educational Research*. [DOI:10.1080/00313831.2022.2148273] [SSCI; SCOPUS; Web of Science; Google Scholar]
- 蔡登瑩、張國祥、薛寶嫦、楊文佳 (2022)。中國四省市學生之信息通信技術熟悉度對教育公平的影響。 *教育測量與評估雙語季刊*, 3(3), 58-72。
- Jin, S.L., Fang, G.B., Cheung, K.C., & Sit, P.S. (2022). Factors associated with academic resilience in disadvantaged students: An

analysis based on the PISA 2015 B-S-J-G (China) sample. *Frontiers in Psychology*. [DOI:10.3389/fpsyg.2022.846466]
[SSCI; SCOPUS; Web of Science; Google Scholar]

- Cheung, K.C., Sit, P.S., Mak, S.K. & Ieong, M.K. (2022). Learner Characteristics Enhancing Academic Resilience: Analysis of Five High-Performing Chinese Economies in PISA 2012. *International Journal of Education and Psychology in the Community*, 12(1&2), 89-111.
- 麥瑞琪、張國祥、薛寶嫦、楊文佳 (2022)。從學校氛圍視角分析華人地區學生 PISA 2018 閱讀素養的表現。《課程與教學季刊》，25(4)，191-224。[TSSCI; Google Scholar; ISSN:1560-1277]
- 蘇華傑、張國祥、楊文佳、麥瑞琪 (2021)。以資料採擷的方式探索區分高低數學素養表現學生之因素——以澳門社經弱勢及優勢背景學生為例 (Using data mining to explore factors that distinguish between students with high and low mathematical literacy performance – an example with socio-economically disadvantaged and advantaged students in Macao)。《教育測量與評估雙語季刊 (Chinese/English Journal of Educational Measurement and Evaluation)》，2(4)，15-26。[Google Scholar]
- Cheung, K.C., Sit, P.S., Mak, S.K. & Ieong, M.K. (2021). Secondary analysis of PISA data for grade level effect due to grade repetition on improvement in reading performance. *International Journal of Education and Psychology in the Community*, 11 (1&2), 180-194.
- Sit, P.S., Cheung, K.C., Ieong, M.K., & Mak, S.K. (2021). Students' frequent exposure to bullying: comparing between low-achieving students of Macao and Taiwan in PISA 2015 well-being study *Educational Psychology*. [DOI: 10.1080/01443410.2021.1876214] [SSCI; SCOPUS; Web of Science; Google Scholar; ISSN: 0144-3410]
- Marôco, J., Assunção, H., Harju-Luukkainen, H., Lin, S.W., Sit, P. S., Cheung, K.C., Maloa, B., Ilic, I.S., Smith, T.J., Juliana A.D.B. Campos, J.A.D.B. (2020). Predictors of academic efficacy and dropout intention in university students: Can engagement suppress burnout? *PLoS ONE*, 15(10): e0239816. [DOI:10.1371/journal.pone.0239816] [SSCI; SCOPUS; Web of Science; Google Scholar]
- Assunção, H., Lin, S.W., Sit, P.S., Cheung, K.C., Harju-Luukkainen, H., Smith, T., Maloa, B., Campos, J., Ilic, I.S., Esposito, G., Francesca, F.M., Marôco, J. (2020). University student engagement inventory (USEI): Transcultural validity evidence across four continents. *Frontiers in Psychology: Quantitative Psychology and*

Measurement, 10, 1-12. [DOI:10.3389/fpsyg.2019.02796] [SSCI; SCOPUS; Web of Science; Google Scholar]

- 麥瑞琪、張國祥、楊文佳、薛寶嫦 (2020)。從澳門某所中學的科學教育實踐案例探討學校多元評量實施的過程。《科學教育月刊》, 28(special issue), 457-482。 [TSSCI; ISSN:1021-3708]
- 麥瑞琪、張國祥、楊文佳、薛寶嫦 (2019)。PISA 2015 澳門學生科學素養性別差異分析。《測驗學刊》, 66 (3), 249-284。 [TSSCI; ISSN:1609-4905]
- Cheung, K.C., Mak, S.K., & Sit, P.S. (2018). Resolving the attitude-achievement paradox based on anchoring vignettes: Evidences from the PISA 2012 mathematics study. *Asia Pacific Education Review*, 19(3), pp. 389-399. [DOI: 10.1007/s12564-018-9526-9] [SSCI; SCOPUS; Web of Science; Google Scholar; ISSN:1598-1037]
- Sit, P. S., Cheong, W. C., & Cheung, K. C. (2017). Prediction of digital problem-solving performance of the low-achievers of a high-performing economy in PISA 2012: Perseverance, Openness and ICT use as quality education indicators. *Journal of Psychological and Educational Research*, 25(2), 18-38. [SCOPUS; Web of Science; Google Scholar; ISSN: 2247-1537]
- Mak, S.K., Cheung, K.C., Soh, K.C., Sit, P.S., & Jeong, M.K. (2017). An examination of student- and across-level mechanisms accounting for gender differences in reading performance: A multilevel analysis of reading engagement. *Educational Psychology*. 37(10), 1206-1221. [DOI: 10.1080/01443410.2016.1242712] [SSCI; SCOPUS; Web of Science; Google Scholar; ISSN:0144-3410]
- Jin, S.L., Cheung, K.C., & Sit, P.S. (2017). Task- and non-task-specific factors classifying problem-solving experts and novices: Comparing between students of the top ten high-performing Eastern and Western economies in PISA 2012. *Contemporary Educational Research Quarterly*, 25(3), 071-103. DOI : 10.6151/CERQ.2017.2503.03 [TSSCI; SCOPUS; Google Scholar; ISSN:1814-4810]
- Cheung, K.C. (2017). The effects of resilience in learning variables on mathematical literacy performance: A study of learning characteristics of the academic resilient and advantaged low achievers in Shanghai, Singapore, Hong Kong, Taiwan and Korea. *Educational Psychology*. 37(8), 965-982. [DOI:10.1080/01443410.2016.1194372][SSCI; SCOPUS; Web of Science; Google Scholar; ISSN:0144-3410]
- 金松麗、張國祥、薛寶嫦 (2016)。利用 log 文檔探析 PISA 2012 學生解難模式及相關認知和心理因素。《測驗學刊》, 63(4), 227-252。 [TSSCI; Google Scholar; ISSN:1609-4905]

- Jeong, M.K., Cheung, K.C., Sit, P.S., Soh, K.C., & Mak, S.K. (2016). Effects of economic, social and cultural status on mathematics performance: A multilevel mediation analysis of self-regulated learning processes. *Contemporary Educational Research Quarterly*, 24(4), 109-143. [TSSCI; Google Scholar; ISSN:1814-4810]
- 楊文佳、薛寶嫦、麥瑞琪、張國祥 (2016)。透過 Log 數據探析學生問題解決行為：以 PISA 2012 的公開題為例。 *測驗學刊*。 63(3), 153-178. [TSSCI; Google Scholar; ISSN:1609-4905]
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- Sit, P. S., Cheung, K. C., Cheong, W. C., Mak, S. K., Soh, K. C., & Jeong, M. K. (2015). What studying problems are faced by the adolescent grade repeaters in Macao: Uncovering underlying mechanisms based on evidences from the PISA 2012 Study. *Asia Pacific Education Review*, 16(3), 367-377. [DOI: 10.1007/s12564-015-9388-3] [SSCI; SCOPUS; Web of Science; Google Scholar; ISSN:1598-1037]
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PRESENTATIONS

Invited/Keynote Address

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