

Major Research/Teaching Grants

Research Grants

Research grants awarded by RGC

* denotes awarded UGC-Funding Scheme for Teaching and Learning Related Proposals co-funded by CUHK matching grants through Focused Innovations Scheme - Scheme C. The total awarded fund of these projects are underlined. Further details are listed in the Teaching File.

- (1) 1988-89 **Principal Investigator** of the project “Estimation of correlations for fuzzy data”, **HKD 20,000**, Sir Philip Haden-Cave’s Fund, Institute of Science and Technology, The Chinese University of Hong Kong.
- (2) 1990-91 **Co-investigator** of the project “Analysis of structural equation models with non-standard data”, **HKD 45,000**, Direct Grant for Research, The Chinese University of Hong Kong.
- (3) 1991-93 # **Co-investigator** of the project “Analysis of structural equation models with non-standard data”, **HKD 440,000**, UPGC/RGC Reference No: CUHK26/91.
- (4) 1992-93 **Principal Investigator** of the project “Estimation of factor scores in multilevel factor analysis model”, **HKD 60,000**, Direct Grant for Research, The Chinese University of Hong Kong.
- (5) 1995-97 **Principal Investigator** of the project “Decision analysis with fuzzy variables”, **HKD 40,000**, Direct Grant for Research, The Chinese University of Hong Kong.
- (6) 1996-98 **Principal Investigator** of the project “Conformal normal curvature and assessment of local influence”, **HKD 60,000**, Direct Grant for Research, The Chinese University of Hong Kong.
- (7) 1997-99 # **Co-investigator** of the project “Analysis of structural equation models via the Bayesian approach”, **HKD 200,000**, UPGC/RGC Reference No: CUHK4026/97H.
- (8) 1998-01 # **Principal Investigator** of the project “Further development on the local influence approach”, **HKD 425,000**, RGC Reference No: CUHK 4186/98P.
- (9) 1999-02 **Principal Investigator** of the project “Influence analysis with ordinal categorical variables”, **HKD 60,000**, Direct Grant for Research, The Chinese University of Hong Kong.
- (10) 2001-03 # **Principal Investigator** of the project “Practice and influence analysis of structural equation modeling with ordinal data”, **HKD 346,000**, RGC Reference No: CUHK4347/01H.
- (11) 2002-04 **Principal Investigator** of the project “Analysis of ranking data with structural equation modeling”, **HKD 100,000**, Direct Grant for Research, The Chinese University of Hong Kong.
- (12) 2003-06 # **Principal Investigator** of the project “Maximum likelihood and influence analysis of a unified model for ranking data”, **HKD 396,000**, RGC Reference No: CUHK4242/03H.
- (13) 2007-09 # **Principal Investigator** of the project “Analysis of ordinal categorical data with misclassification” sponsored by Research Grants Council

- (Eamarked Grants) during the period 2007-01-01 to 2009-12-31 for the sum of **HKD 487,720**, RGC Reference No: CUHK4683/06H.
- (14) 2013-15 # **Principal Investigator** of the project “A unified location-scale-family modeling approach for multiple group analysis with ordinal responses” sponsored by Research Grants Council-General Research Fund during the period 2013-01-01 to 2015-12-31 for the sum of **HKD 655,012**, RGC Reference No: c02420.
- (15) 2013-17 **Co-investigator** of the project “Programme for International Student Assessment 2015 in Hong Kong (ED12728) sponsored by Education Bureau, HKSAR during the period 2013-03-31 to 2019-12-31 for the sum of **HKD 13,620,496**.
- (16) 2014-17 ***Principal Investigator** of the project “Developing and Evaluating a Learning Analytics Platform to Support University Teachers for Pedagogical Decision-making in Fostering Reflective Engagement of Students” (ED14838) sponsored by Focused Innovations Scheme (formerly known as Focused Investments Scheme) - Scheme C during the period 2014-07-01 to 2017-06-30 for the sum of **HKD 606,000** out of the total project budget **HKD 7,536,623** (CUHK’s funding share: **HKD 2,020,000**).
- (17) 2014-17 ***Principal Investigator** of the project “Establishment of New Paradigm with Feasible Models in Teaching and Learning Science for Problem Solving and Future Development” (ED14630) sponsored by Focused Innovations Scheme (formerly known as Focused Investments Scheme) - Scheme C during the period 2014-07-01 to 2017-09-30 for the sum of **HKD 2,637,000** out of the total project budget **HKD 10,000,000** (CUHK’s funding share: **HKD 8,790,000**).
- (18) 2014-17 ***Principal Investigator** of the project “Knowledge and Education Exchange Platform” (ED14485) sponsored by Focused Innovations Scheme (formerly known as Focused Investments Scheme) - Scheme C during the period 2014-07-01 to 2017-09-30 for the sum of **HKD 3,420,000** out of the total project budget **HKD 15,000,000** (CUHK’s funding share: **HKD 11,400,000**).
- (19) 2015-18 ***Co-investigator** of the project “Developing, Assessing and Providing Direct Evidence of Student Learning in Generic Skills in the Context of Engineering Higher Education in Hong Kong” (EE14920) sponsored by Focused Innovations Scheme (formerly known as Focused Investments Scheme) - Scheme C during the period 2015-04-01 to 2018-03-31 for the sum of **HKD 366,329** out of the total project budget **HKD 4,992,555** (CUHK’s funding share: **HKD 1,221,096**).
- (20) 2018 **Principal Investigator** of the project “Optimization of Test Power for Three-Arm Non-Inferiority Trials with Adaptive Treatment Allocation” (PS17442) sponsored by CUHK Research Committee Funding (Direct Grants) during the period 2018-01-01 to 2018-12-31 for the sum of **HKD 40,000**.
- (21) 2018-20 # **Principal Investigator** of the project “Adaptive treatment allocation strategies in clinical studies with survival and categorical data” sponsored by Research Grants Council-General Research Fund during the period 2018-07 to 2020-06 for the sum of **HKD 336,865**.

Teaching Development Grants

Teaching Development Grants for 2005-08 Triennium (3 projects)

- (1) 2005-07 **Co-Supervisor** of the Department-level Teaching Development Project “Development and Promotion of an Online Platform for Survey Research” during the period 2005-10 to 2007-11 for the sum of **HKD 100,000**.
- (2) 2005-08 **Principal Supervisor** of the Faculty-level Teaching Development Grant Project “Engaging Science Students in the Design and Enactment of Assessment” during the period of 2005-10 to 2008-11 for the sum of HKD 200,000. This project involves all departments of the Science Faculty and the Centre for Learning Enhancement And Research (CLEAR) with co-supervisors coming from every departments of the Science Faculty.
- (3) 2006-08 **Principal Supervisor** of the Faculty-level Teaching Development Grant Project “Promoting the Use of the Outcome-Based Approach to Science Programmes: Development of Learning Outcome Statements and Measurement Instruments” during the period of 2006-10 to 2008-11 for the sum of HKD 1,000,000. This project involves all departments of the Science Faculty and CLEAR with co-supervisors coming from every departments of the Science Faculty.

Teaching Development Grants for 2008-2009 Roll-over Year (1 project)

- (4) 2008-09 **Principal Supervisor** of the Faculty-level Teaching Development Grant Project “Using Clickers to Enhance Teaching and Learning: Pilot Case Studies in Science Programmes” during the period of 2008-12 to 2009-10 for the sum of HKD 450,000.

Teaching Development Grants for 2009-2012 Triennium (2 projects)

- (5) 2009-12 **Principal Supervisor** of the Faculty-level Teaching Development Grant Project “The Development of an OBA Assessment Model for Science Subjects” during the period 2009-08 to 2012-07 for the sum of HKD 1,000,000. This project involves all departments of the Science Faculty and CLEAR with co-supervisors coming from every departments of the Science Faculty.
- (6) 2009-12 **Co-Principal Supervisor** of the Inter-faculty-level Teaching Development Grant Project “Inter-faculty Academic-related Advising Service” during the period 2009-11 to 2012-12 for the sum of HKD 1,507,000. This project involves three faculties: Business, Engineering and Science.

Teaching Development Grants for 2012-2015 Triennium (8 projects)

- (7) 2012-15 **Principal Investigator**, "Additional Funding to Meet Extra Teaching/professional Needs" during the period 2012-12 to 2015-07 for the sum of HKD 2,542,000.
- (8) 2013-15 **Principal Investigator**, "Diffusion of TDG Projects to Enhance Sustainability and Collaboration" during the period 2013-01 to 2015-08 for the sum of HKD 750,000.
- (9) 2013-15 **Co-Principal Investigator**, "Development of a Practical Model to Support Teachers at CUHK to Create Courseware for Enhancing Teaching and Learning" during the period 2013-02 to 2015-09 for the sum of HKD 1,950,000.
- (10) 2013-15 **Co-Investigator**, "Understanding the Pedagogical Belief of New Faculty Member" during the period 2013-01 to 2015-06 for the sum of HKD 750,000.
- (11) 2013-15 **Co-Principal Investigator**, "To Understand Students of the New Era by a Comprehensive Entry Survey" during the period 2013-01 to 2015-07 for the sum of HKD 750,000. This project involves CLEAR, all Colleges, OGE, and OSA.
- (12) 2013-15 **Co-Principal Investigator**, "Evaluation of Students' First-Year Experience and Reflection on New Curriculum" during the period 2013-01 to 2015-08 for the sum of HKD 2,500,000.
- (13) 2013-15 **Co-Principal Investigator**, "An Inter-faculty elearning Platform" during the period 2013-01 to 2015-08 for the sum of HKD 1,500,000. This project involves five faculties: Arts, Business, Engineering, Science and Social Science.
- (14) 2013-15 **Co-Principal Investigator**, "Learning by Engaging and Teaching" during the period 2013-01 to 2015-08 for the sum of HKD 500,000.

Start-Up Funding for the Establishment of Communities of Practice (1 project)

- (15) 2013-15 **Principal Investigator**, "Teaching Excellence Ambassador Programme" during the period 2013-02 to 2015-07 for the sum of HKD 2,000,000.

Funding Scheme for Teaching and Learning Related Proposals in 2012-15 Triennium (3 projects)

- (16) 2014-17 **Principal Investigator**, "Establishment of New paradigm with Feasible Models in teaching and Learning Science for Problem Solving and Future Development" during the period 2014-07 to 2017-09 for the sum of HKD 8,790,000 (CUHK's funding share) out of the total project budget HKD 10,000,000.
- (17) 2014-17 **Co-Principal Investigator**, "Knowledge and Education Exchange Platform (KEEP)" during the period 2014-07 to 2017-09 for the sum of HKD 11,400,000 (CUHK's funding share) out of the total project budget HKD 15,000,000.
- (18) 2014-17 **Co-Investigator**, "Developing and Evaluating a Learning Analytics Platform to Support University Teachers for Pedagogical Decision-

making in Fostering Reflective Engagement of Students" during the period 2014-07 to 2017-06 for the sum of HKD 2,020,000 (CUHK's funding share) out of the total project budget HKD 7,536,623.

Teaching Development Grants for 2015-2016 Roll-over Year (3 projects)

- (19) 2015-16 **Principal Investigator**, "Support the Courseware Development Scheme (CDGS) for 2015-16 Roll-over year" during the period 2015-08 to 2016-07 for the sum of HKD 700,000.
- (20) 2015-16 **Co-Investigator**, "Start-up Costs of Setting up Communities of Practice" during the period 2015-08 to 2016-07 for the sum of HKD 500,000.
- (21) 2015-16 **Co-Investigator**, "Funding for Professional Development Activities of Front-line Teaching Staff for 2015-16 Roll-over Year" during the period 2015-08 to 2016-07 for the sum of HKD 429,000.

Teaching Development and Language Enhancement Grant (TDLEG) for 2016-19 Triennium (1 project)

- (22) 2016-19 **Principal Supervisor**, "Supporting the Courseware Development Grant Scheme (CDGS) for 2016-19 triennium" for the period from 2016-12-01 to 2019-06-30 for the sum of HKD 3,000,000.

Funding Scheme for Teaching and Learning Related Proposals in 2016-19 Triennium (2 projects)

- (23) 2017-20 **Co-Leader**, "The Responsive Universities: Appreciating Content Sharing in General Education" for the period from 2017-07 to 2020-06, for the sum of HKD 1,500,000 (CUHK's funding share) out of the total project budget HKD 15,000,000
- (24) 2017-20 **Co-Leader**, "KEEP Learning for Life: Knowledge & Education Exchange Platform 2.0", for the period from 2017-09 to 2020-08, for the sum of HKD 9,550,000 (CUHK's funding share) out of the total project budget HKD 15,000,000.

UGC Additional Funding for 2019-22 Triennium

- (25) 2021-22 **Co-Principal Investigator**, "An analysis of the qualitative CTE feedback of Term 2 2019/20" during the period 2021-01 to 2022-06 for the sum of HKD 450,615.

Teaching Development and Language Enhancement Grant for the 2019-22 Triennium (5 projects)

- (26) 2021-22 **Principal Investigator**, "Engaging teachers and departments to develop and explore VTL" during the period 2021-03 to 2022-06 for the sum of HKD 750,000.
- (27) 2021-22 **Principal Investigator**, "The Development of Faculty Roadmap to guide VTL Development" during the period 2021-03 to 2022-06 for the sum of HKD 4,500,000.

- (28) 2021-22 Principal Investigator, "Upholding academic honesty in the virtual learning and assessment environment" during the period 2021-03 to 2022-06 for the sum of HKD 2,050,000.
- (29) 2021-22 Principal Investigator, "Improved delivery for students with special needs" during the period 2021-03 to 2022-06 for the sum of HKD 2,130,000.
- (30) 2021-22 Principal Investigator, "Support the new paradigm of teaching: online courses and mixed mode teaching" during the period 2021-03 to 2022-06 for the sum of HKD 200,000.

UGC Special Grant for Strategic Development of Virtual Teaching and Learning (6 projects)

- (31) 2021-23 **Principal Investigator**, "Engaging teachers and departments to develop and explore VTL" during the period 2021-03 to 2023-06 for the sum of HKD 3,000,000.
- (32) 2021-23 **Principal Investigator**, "Support the new paradigm of teaching: online courses and mixed mode teaching" during the period 2021-03 to 2023-06 for the sum of HKD 4,800,000.
- (33) 2021-23 **Principal Investigator**, "Improved delivery for students with special needs" during the period 2021-03 to 2023-06 for the sum of HKD 1,030,000.
- (34) 2021-23 **Principal Investigator**, "Upholding academic honesty in the virtual learning and assessment environment" during the period 2021-03 to 2023-06 for the sum of HKD 1,020,000.
- (35) 2021-23 **Principal Investigator**, "The Formulation and Implementation of CUHK's VTL Strategic and Action Plan" during the period 2021-03 to 2023-06 for the sum of HKD 2,550,000.
- (36) 2021-23 **Principal Investigator**, "The Development of Faculty Roadmap to guide VTL Development" during the period 2021-03 to 2023-06 for the sum of HKD 4,500,000.

Other Grants

- (37) 2004-06 **Deputy Project Coordinator** of the project "Case-based Learning of High School Science Subjects to Support Learning to Learn" sponsored by Quality Education Fund, HKSAR Government during the period 2004-08 to 2006-10 for the sum of HKD 2,820,000.
- (38) 2006-08 **Principal Investigator** of the project "A Science Enrichment Programme for Secondary 3-4 Students" (PS06794) sponsored by Quality Education Fund, HKSAR Government during the period 2006-09-01 to 2008-12-31 for the sum of HKD 2,000,000.
- (39) 2007-08 **Director** (筹划、监管人) for the project "A Journey in Hong Kong with Science in Action" (开发「香港特区科学动感之旅」), supported by the China Association for Science and Technology, Ministry of Education, and Chinese Academy of Sciences during the period 2007-07 to 2008-12 for the sum of RMB 300,000.

- (40) 2007-08 **Facilitator** of the project “Production of Learning and Teaching materials for the New Senior Secondary Integrated Science Curriculum: Keeping Ourselves Healthy”, supported by the Education Bureau during the period 2007-02 to 2008-04 for the sum of HKD 350,000.
- (41) 2007-08 **Facilitator** of the project “Production of Learning and Teaching Materials for the New Senior Secondary Integrated Science Curriculum: Chemistry for World Needs”, supported by the Education Bureau, during the period of 2007-03 to 2008-08 for the sum of HKD 312,200.
- (42) 2007-08 **Facilitator** of the project “Production of Learning and Teaching materials for the New Senior Secondary Integrated Science Curriculum: Radiation and Us”, supported by the Education Bureau, during the period of 2007-02 to 2008-04 for the sum of HKD 246,000.
- (43) 2007-08 **Facilitator** of the project “Development of Learning and Teaching Resource Packages for the New Senior Secondary: Technology and Living”, supported by the Education Bureau during the period 2007-04 to 2008-09 for the sum of HKD 600,000.
- (44) 2008 **Facilitator** of the project “Running Enhancement Programmes for Exceptionally Gifted Students. Programme 1: Perspective on Life”, Education Bureau during the period of 2008-02 to 2008-05 for the sum of HKD 97,152.
- (45) 2008 **Facilitator** of the project “Running Enhancement Programmes for Exceptionally Gifted Students. Programme 2: Glimpses of the Oceans”, Education Bureau during the period of 2008-07 to 2008-08 for the sum of HKD 108,100.
- (46) 2008-11 **Principal Investigator** of the project “The Development of Student-oriented Teaching and Learning Resources in Science and a Science Enrichment Programme for Secondary 3-4 Students” (ED08861) sponsored by Quality Education Fund, HKSAR Government during the period 2008-09-01 to 2011-08-31 for the sum of HKD 3,500,000.