



Faculty of

Education

RESEARCH PROJECTS

中國近代及現代教育社團研究

Research on Educational Communities in Modern and Contemporary China

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□ 1 March 1998

❖ CUHK Research Committee Funding

我國百多年來的政治、經濟、社會起了很大的變化，東西洋的教育思想與實踐方法先後傳入中國，對我國的傳統教育，起了很大的沖擊。因這種新時代的轉變，中國國內出現了很多不同性質的教育社團。這些教育社團的產生，往往是教育新問題的出現。教育社團中代表人物的教育思想與行為，往往反映了他們對這問題的觀點與對策。而教育社團的發展與運作，一方面反映了他們解決問題的實況，同時也標誌著社團本身發展的成敗。事實上我國不少教育理念，最初是由教育社團的提出、試行與鼓吹後，經官方採納，制定為教育政策，頒佈為教育法令，在各地予以實施推行的。

本研究的目的，在探討中國近代與現代教育社團的緣起、宗旨、組織、編制、代表人物、發展與運作，以及它們在中國教育上的貢獻與影響，並審視我國當時出現的教育問題與解決的方法。

本研究採用的研究方法是歷史法和文獻法，通過對歷史資料的分析、綜合與整理、探討近代、現代我國教育的發展與有關的問題。

(ED97017)

Consultancy Study on Setting Benchmarks for English Language Teachers (Phase II) - Finalising Syllabus, Specifications, Scales and Descriptors

✉ CONIAM David John • FALVEY Peter*

□ 1 December 1997

❖ Advisory Committee on Teacher Education and Qualifications

This phase of the project complements Phase I – the initial investigation into benchmarks. It seeks to refine and finalise the benchmark specifications and to moderate and to finalise the syllabus, rating scales and descriptors for the benchmarks, including information for the public. It also involves liaising with the HKEA, its Subject Committee and the ACTEQ Task Force in all these areas.

(ED97027)

Establishing the Relationship between Language Proficiency and Word Frequency in English

✉ CONIAM David John

□ 1 February 1998

❖ CUHK Research Committee Funding

This study seeks to investigate the relationship between English language proficiency and students' range of vocabulary in terms of word frequency. It is hypothesised that students who are more able in English will demonstrate control over a greater number of less frequent vocabulary items, which will be demonstrated across a range of levels of proficiency. The study will be a useful addition to the current research into the growing area of vocabulary research, where empirically based studies, such as the one proposed, have only recently come to the forefront, involving access to large corpora of English language data. It will involve analysing a substantial sample of Secondary 7 written material; some 200 Use of English examination scripts of 500 words each will be analysed.

(ED97003)

Consultancy Study on Setting Benchmarks for English Language Teachers (Phase IIa) - Pre-Piloting and Validation of New Assessment Tasks

✉ CONIAM David John • FALVEY Peter*

□ 1 April 1998

❖ Advisory Committee on Teacher Education and Qualifications

This phase of the project deals with the pre-piloting and validation of innovative assessment tasks and their associated descriptors for language benchmarks in order to determine whether they are operationalisable in the Hong Kong context.

(ED97028)

Consultancy Study on Setting Benchmarks for English Language Teachers (Phase IIb) - Creation of Exemplar Material and Pilot Test Material

✉ CONIAM David John • FALVEY Peter*

□ 1 April 1998

❖ Advisory Committee on Teacher Education and Qualifications

This phase of the project will be carried out in association with members of the ACTEQ Subject Committee and HKEA personnel. The researchers have been requested by ACTEQ and the HKEA to participate in this phase in order to launch the project. It will involve two aspects of assessment materials development:

- (1) the creation of exemplar material for presentation to the English language teaching community.
- (2) the creation of "live" test material for the formal large-scale pilot stage of the setting of English language benchmarks for use in Hong Kong.

(ED97029)

Curriculum Design and Implementation of Environmental Education in Hong Kong Pre-Schools

- ✍ LEE Chi Kin John
- ☐ 1 March 1998
- ❖ CUHK Research Committee Funding

This study is a pioneering research into preschool environmental education in Hong Kong. The major objectives of this research are (1) to study the status of environmental education in Hong Kong preschools; (2) to study the curriculum commonplaces and approaches to environmental education emphasised by preschool teachers in designing environmental education curricula; and (3) to study the lived experience of implementing environmental education as a curriculum change by preschool teachers. The research will be divided into two phase. In phase one, two questionnaire surveys will be conducted. In phase two, schools having high, medium and low aggregate scores in implementing environmental education namely the extent of teaching environmental issues and achieving environmental education objectives, based on the second questionnaire survey will be chosen. Semi-structured interviews with teachers in these schools will be conducted.

(ED97018)

Relationship between Student's Academic Achievement and Learning Style

- ✍ LEE Fong Lok
- ☐ 1 November 1996
- ❖ Chou's Foundation Fund

This study tries to find out the relationship between student teachers' academic achievement and their learning style. The aim is to preliminary investigate whether is a possibility in designing specific strategies to teach the Faculty's students.

(ED96038)

The Development of An Internet Learning System in Mathematics

- ✍ LEE Fong Lok
- ☐ 7 July 1997
- ❖ CUHK Special Grant for conducting Research Abroad in Summer

The aim of the project is to integrate an on-going project, called Electronic Homework (Lee, 1996a, 1996b), with the project Lisa developed by the National Research Council sponsored by Laboratory of Excellence on Learning Science and Technology

in Taiwan. Electronic Homework is an intelligent tutoring system to teach mathematics while Lisa is a "shared teaching material repositories, networked social peer learning environments, homework assignment management system, intelligent agents, learner data mining, teacher real-time monitoring system, and models of coordination in networked lecturing". By incorporating the technologies of Lisa into Electronic Homework, it is hope that a tele-teaching system (Trentin, 1996) can be developed in the Internet to teach mathematics. With suitable modification, it is also hoped the system can be used to teach courses offered by the faculty in the near future.

(ED97033)

Instructional Activities (Using Magnetic-Card-Board-Games) for Language Teaching in Primary Schools

- ✍ MAK Se Yuen • HO Man Koon
- ☐ 14 December 1995
- ❖ One-time Support, CUHK

The project can be divided into two parts. The first is a trial run in 6 primary schools and the second is a community service of providing low cost magnetic teaching aids to all Hong Kong Schools.

The trial run in 6 primary schools was a failure. A seminar was held in the staff development day for each of the participating schools to promote the use of magnetic backed cards in 1995 and 1996. These schools are:

- (1) 迦密亞禮遜小學上下午校
- (2) 迦密梁省德小學上下午校
- (3) 大埔舊墟公立小學上下午校

Initial questionnaires revealed that over 80% teachers in these schools welcomed the idea of trying out the present program in their schools. Tens of thousands of magnetic backed word and picture cards based on the suggestion from schools 3 had been constructed in summer by student helpers. The cards were sorted into 3 sets. A questionnaire was sent to six primary schools in 20 Jan, 97 to remind them on the categorization and use of the cards received. It was discovered that, the schools were not able to make full use of these cards. With the exception of only one teacher in school 1, all teachers refuse to take part in seminars to share their experiences with other teachers. There were seven reasons why the schools did not make full use of these cards. First, there were too many cards that the teachers did not know how to start with. Second, they adopted the TOC scheme recently and changed their textbooks. Third, they did not have enough manpower to sort out the cards. Fourth, they were not able to figure out a satisfactory self-help retrieval system. Fifth, there was no magnetic board in some classrooms at the moment they received the cards. Sixth, in school 2, due to

renovation, they did not have enough space to store the cards. Seventh, despite the seminars and demos, some teachers hesitated to try new ways of teaching. To the best they could, the researchers had suggested many ways to help them solve these problems. Their support included coaching and school visits.

The provision of low-cost magnetic aids to schools was a success. Several seminars were held in 1997 and 1998 to promote the use of magnetic card/board games in the teaching of language and general studies. An order form of 22 items was distributed to participants in these seminars so that they could order magnetic teaching aids for their schools. Most of the products are blank magnetic-backed plastic and picture cards on special topics (with game rules). The researchers received orders from no less than 30 schools in 1997 and they had processed up to 35 orders in the first seven months in 1998. They can support themselves without further funding in the future development of magnetic teaching aids.

Conclusion:

From the number of orders received, the researchers found that most primary school and kindergarten teachers who participated in the seminars were convinced that display board activities using magnetic-backing cards could be interesting.

The researchers need more publicity to make their project and service accessible to more teachers and schools, in particular to teachers in the kindergarten. Because large computer screens and projectors are very expensive, game-card activities still has a lot of room for further development in the primary school classroom.

It was a big mistake to donate a lot of teaching aids (work cards) to school and let the headmaster push the teachers to use these aids.

The government should have a provision of at least one technician in each primary school to take care of computers and other teaching aids.

(ED95067)

An Evaluation of the 9-year Compulsory Education of Hong Kong (2nd Phase): Curriculum, Teachers' Knowledge, Learning Process and Their Relationship with Student Learning Difficulties

✉ WONG Hin Wah • LEE Chi Kin John • NI Yujing (Educational Psychology) • HAU Kit Tai (Educational Psychology) • HUI Kwok Fai* • FOK Ping Kwan* • POON Lai Man*

□ 16 August 1997

❖ Research Grants Council

This study is the second phase of a long term evaluation exercise namely: An Evaluation of the 9-year Compulsory Education of Hong Kong.

The first phase, which was commissioned by the Education Department of Hong Kong, involved conducting a comprehensive review of the 9-year compulsory schooling of Hong Kong in 1996. The

purposes of the research are to review the aims of the nine-year compulsory education; to assess the effectiveness of the policies, strategies and measures of the nine-year compulsory education and to make recommendations for improvement if the existing policies and systems are inadequate.

The second phase, i.e. the research of this proposal will focus on the following areas to delineate the causes of students' learning problems which have not been addressed thoroughly and deeply enough during the first phase:

- (1) the nature (selective vs. universal education) of the formal and instructional curriculum;
- (2) teachers' knowledge and belief learned from teacher education institutions;
- (3) classroom climate and students' cognitive and affective learning process.

The resulting effect of the interaction of these three areas on students' learning problems will also be investigated.

Based on the findings of these inquiries, this study will provide background knowledge for the following:

- (1) curriculum design and development of the Curriculum Development Institute of Hong Kong;
- (2) curriculum and instructional design and development of all teacher education institutions especially those nurturing teachers who will teach in the compulsory schooling;
- (3) resources allocation policy of the Education and Manpower Branch of the Hong Kong Government.

(CU97224)

Learning Styles and Difficulties Encountered in Mathematics Learning among Hong Kong Students

✉ WONG Ngai Ying • LAM Chi Chung • WONG Ka Ming Patrick

□ 1 October 1997

❖ CUHK Research Committee Funding

In Hong Kong, the ad-hoc committee for holistic review of the mathematics curriculum from primary to sixth form levels has been set up in the Curriculum Development Council, which will recommend a reform of the mathematics curriculum. It is the right time to make a thorough investigation of the strengths and inadequacies of mathematics learning among Hong Kong students. In recent years, a research team comprising the investigators and their research students have launched the appraisal of the Hong Kong mathematics curriculum and those in neighbouring regions. Kong (1996, 1997); Ma (1995, 1996a, 1996b, 1997); Wong, Lam, Wong (1995) and Wong, Wong, & Lam (1995) are some of the papers published so far. In 1996, the team began to develop instruments for a holistic appraisal. In the present project, the researchers proceed with the investigation on the learning style and difficulties in the learning

mathematics with the help of the instruments developed in the last project. Eighteen students each from P.3, P.6, S.1 and S.3 will be interviewed to reveal their conception of mathematics, learning style and problems they encountered in the learning process. Stimulated recall of their approaches to solving mathematical problem will be used. Their classworks will also be collected and their common misconceptions identified.
(ED97004)

Analysis of the Various Sectors on their Views on the Mathematics Curriculum

✉ WONG Ngai Ying • LAM Chi Chung • WONG Ka Ming Patrick • LEUNG Koon Shing Frederick* • MOK Ah Chee, Ida*

☐ 1 March 1998

❖ Education Department, Hong Kong Government

The views of students, parents, teachers, employers and stake-holders towards the primary and secondary mathematics curriculum will be collected and analysed. Both quantitative and qualitative methods will be utilized.
(ED97015)

Please refer to previous issues of this publication for more details of the following ongoing research at the department:

<u>Edition</u>	<u>Title/Investigators</u>
1995-96	Pedagogy of Chinese Language (ED95059) ✉ CHOW Hon Kwong
1995-96	Research on Teaching of Chinese Culture in Chinese Language Teaching (ED95060) ✉ CHOW Hon Kwong
1995-96	The Status and Needs Assessment of Environmental Education in Primary Schools (ED95015) ✉ LEE Chi Kin John • WONG Hin Wah
1995-96	Teacher Receptivity to Curriculum Changes (ED95042) ✉ LEE Chi Kin John
1994-95	Teacher Effectiveness: A Study of Routine-use Among Primary School Teachers (ED94023) ✉ LEE Fong Lok • LIN Wen Ying (Educational Psychology)
1995-96	The Development of a Computer-assisted Instructional System to Correct Students'

	III-structured Sentences in Chinese (ED95058) ✉ LEE Fong Lok • CHOW Hon Kwong
1995-96	小學中文科活動教學套—磁板磁咭教學遊戲的應用 An Activity Kit for the Teaching of Chinese Language in Primary Schools - An Application of Magnetic-Board-and-Card Games (ED95056) ✉ 麥思源 MAK Se Yuen • 何萬貫 HO Man Koon
1995-96	The Use of Magnetic Card Activities in the Teaching of English in Primary and Lower Secondary Schools (ED95052) ✉ SZE Man Man Paul • MAK Se Yuen
1996-97	Survey on the Parents' Rights and Responsibilities in Their Children's Education (ED96029) ✉ TANG Yiu Nam • HO Sui Chu (Educational Administration & Policy) • YIP Wai Ming*
1994-95	A Study of the Design, Development and Implementation of Target Oriented Curriculum (TOC) Hong Kong (ED93028) ✉ WONG Hin Wah • LAM Chi Chung • LEE Chi Kin John • WONG Ngai Ying
1995-96	Research and Development Programme on Teaching and Curriculum for Chinese in Primary and Secondary Schools (ED92028) ✉ WONG Hin Wah • FONG Kan Hay# • YEUNG Chi Kwan • YEUNG Kwai Hong* • CHOW Hon Kwong
1995-96	Education and Development in South China: A Study of the Supply and Demand of School Teachers (ED94035) ✉ WONG Hin Wah • CHUNG Stephen Yue Ping (Educational Administration & Policy) • LO Leslie Nai Kwai (Educational Administration & Policy)
1996-97	Mathematics Curriculum Reform for Universal Education: Development of Instruments (ED96016) ✉ WONG Ngai Ying • LAM Chi Chung • WONG Ka Ming Patrick
1996-97	A Discussion of Exceptional Corresponding Rules When Deriving Modern Cantonese Pronunciations from

Fan-chieh Used at Sui-T'ang Times
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RESEARCH PROJECTS

Expected Rate of Return, Ability to Pay and Willingness to Pay in the Finance of University Education

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❖ Research Grants Council

The finance of higher education is in crisis. There is a strong social demand for higher education and a strong desire of most governments to meet this demand. However, the fiscal capacity of government to subsidize higher education has a limit and cannot keep pace with the rapid growth in enrollment. While the enrollment in higher education grows annually by 4.3% in high-income countries and 8.8% in low-income countries, the total public recurrent expenditure on higher education in these countries grows only by +0.9% and -12.3% respectively in the 1980s. The financial difficulty is further escalated in developing countries by the fact that there is a greater pressure for enrollment increase in technological and scientific studies. The quality of teaching and research deteriorates drastically as resources dwindle. Various financing strategies other than direct government subsidy have been explored. The one that seems to be most promising and controversial is the Cost-Recovery strategy in which students are required to bear a larger share of the costs. To what extent are students able to pay and willing to pay for their higher education? It has been postulated by the human capital investment theory that the desire to invest in education is driven by the rates of return to education. This study attempts to estimate the expected rate of return to university education and evaluate its relationship with the ability-to-pay and the willingness-to-pay among students in major universities in Hong Kong and China. (CU97235)

The Effect of Parental Involvement on Students' Learning: What Works and How

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❖ CUHK Research Committee Funding

Promotion of home-school cooperation has become a major concern for policy makers and educators in Hong Kong recently. With the pronouncement of the School Management Initiative (SMI) and Education Commission Report No. 7 (ECR 7), one might expect that parents would have greater involvement in their children's education. Recent home school studies in Hong Kong have confirmed that parents are willing

to participate in their children's education regardless of their social origin. Yet little has been done to explore successful cooperation practices between home and school. Building on these findings, this study emphasize on "what works and how". The objective of this study is threefold: (1) to investigate different forms of parental involvement in local context; (2) to identify important family and institutional factors that affect parental involvement; (3) to examine how different forms of parental involvement are related to educational quality and equality. This investigation will be valuable for developing a localized comprehensive model of parental involvement for parent education, teacher training, and school restructuring.

This project will survey a sample of primary schools with various socioeconomic settings and follow up by a in-depth case study. It is expected that a localized home-school cooperation model contributing on improving school quality and equality will be emerge from the results of this investigation. The results of the present study will be important for constructing reliable measures in the further longitudinal study of the effectiveness of different models of parental involvement in local context, and therefore form an important basis for further inquiry in the conduct of a large scale research project. (ED97020)

Managerial Practices and Organizational Cultures of Schools in Shanghai

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A theoretical framework, which assesses organizational cultures of schools quantitatively and two self-created instruments, the *School Values Inventory* (SVI) and the *Teachers' School Life Questionnaire* (TSLQ), have been well established in the context of Hong Kong schools. An international study is being launched in order to test the general applicability of the theoretical framework and the instruments and to explore the managerial practices and organizational cultures of schools in other countries and contexts. It is to propose Shanghai schools be the subjects of the present study, because China and the Hong Kong Special Administrative Region are increasingly interrelated and because Shanghai and Hong Kong, as the biggest metropolitans in China, have many comparable features in which they can learn from each others. About 30 primary schools and 30 secondary schools in Shanghai will be randomly selected and about 1800 teachers from these schools will be surveyed with the instruments to solicit their opinions about the managerial practices in these schools. LISREL and multilevel modeling techniques will be used to analyze the data collected. This study may make

several theoretical and practical contributions as below: (1) to a better understanding of the specific area of organizational theory within the field of educational administration; (2) to add literature to the study on organizational culture which appears as the latest trend in the Theory Movement; (3) to explore the managerial practices and organizational cultures of schools in Shanghai and to compare with those features in Hong Kong schools; (4) to reveal the relationships between organizational cultures and teachers' feelings about school life in different contexts' and (5) to promote exchanges between the academic institutions and schools in Shanghai and Hong Kong.
(ED97021)

A Comparative Study of Political Education in Four Chinese Societies: Mainland China, Taiwan, Hong Kong and Macau

✍ TSE Kwan Choi
 □ 20 October 1997
 ❖ CUHK Research Committee Funding

The growing concern over political education in mainland China, Taiwan, Hong Kong and Macau indicates the significance and necessity of conducting a comprehensive, rigorous and systematic study of the present state of political education in these places. Since the social subjects are the major sources of political education to students, they are selected for analysis with regard to the ideological bearings of the curricular objectives, scope, distribution of topics, differences in emphasis, and the composite images of citizenship to be transmitted.

Document analysis and interview will be utilized to collect data for studying each society's political education at the junior secondary levels. This study aims to offer a detailed analysis of the formal curriculums of social subjects relating to political education. In the light of the perspectives of New Sociology of Education, Neo-Marxism, and Almond and Verba's framework of political culture, this study will determine the very nature of citizenship as reflected in the present formal curriculums in terms of the following dimensions: (1) national identity, (2) image of community, (3) civil rights and duties, (4) image of the government, (5) the relationship between people and government, and (6) political ideas and conception of political actors.

Finally, recommendation would be made for curriculum development and planning based on the findings above.
(SS97023)

Views from Hong Kong: A Cross-Cultural, Comparative Perspective of How Principals Manage the School Reform Process in the UK and Hong Kong

✍ WALKER Allan • DIMMOCK Clive
 □ 1 January 1998
 ❖ CUHK Research Committee Funding

Principals in Hong Kong and the United Kingdom are managing radical reform of their schools. This research project focuses on how principals in HK and the UK make sense of their roles in school reform environments and how they relate these to improving the quality of school education. Such understanding will be enriched by comparing and contrasting role perceptions, beliefs, and strategies used by principals in the two cultural and reform contexts. In this way, the research will attempt to identify cultural factors which may influence how principals perceive implement and cope with reforms aimed at enhancing school quality. Outcomes of the research are expected to contribute to both theoretical understanding of principals' roles in reform and to principal practices in schools.
(ED97005)

Alternative Training Paths for Human Resource Development: A Reverse Tracer Study of Manufacture and Service Sectors in Shanghai, China

✍ XIAO Jin • LO Leslie Nai Kwai
 □ 1 October 1997
 ❖ Research Grants Council

China, in the process of modernization in recent years, has favoured vocational/technical education (VTE), and in 1985 it instituted VTE development in secondary schools nationwide. The political assumption is that VTE prepares the youth with job-related skills and makes them more productive in future jobs.

Despite official enthusiasm for VTE, the experience of developing countries has cast doubt on VTE in meeting the economic expectations because the high costs are not justified by positive labor market outcome (Foster, 1987). Evidence from both industrialized and developing countries show that public VTE constitutes but one of many alternative training options (US Department of Labor, 1964, 1970; Ziderman & Horn, 1995). In China, Xiao and Tsang (1994) found that both firms and individuals make a sizeable investment in a variety of employee training programs to update job skills and keep them abreast of changes. Training programs after formal schooling are found to be complementary to the development of job skills and are an investment (Hunter, Borun & Mannan, 1974). Ongoing training provides sustained viability of an economy in the modern world (Bowman, 1995: 52).

This study, as an extension study of workforce training in Shenzhen (Xiao, 1995), proposes to use the reverse tracer study technique to identify

alternative job-skill development paths for the workforce after formal schooling in Shanghai which is designated as a key city to take a lead in economic development in the Yangzi River Zones in South China. Aspects to be examined include (1) employees' demographics; (2) the level of formal education attained; (3) job specifics and changes in jobs; (4) job-related training provided by various provisional agencies in the last few years; (5) relevance of this training to job tasks and (6) employee earnings in relation to skill levels. (CU97210)

1998 Pilot Study for Education and Work: The Efficacy of Schooling in Human Resource Development in Three Regions in China

✉ XIAO Jin • LO Leslie Nai Kwai • CHUNG Stephen Yue Ping • LEE Chi Kin John (Curriculum & Instruction) • WONG Hin Wah (Curriculum & Instruction)

☐ 1 March 1998

❖ CUHK Research Committee Funding

This project attempts to start a pilot study for a proposal already submitted to RGC which is entitled "Education and Work: The Efficacy of Schooling in Human Resource Development in Three Regions in China" to be conducted in six localities. In the main study (RGC proposal), the following aspects are to be examined: (1) to enquire into the process of introduction of changes and new practices in the workplace; (2) to identify basic skill requirements and quality traits of employees in a changing economy; (3) to assess the relevance of the secondary school curriculum to job skills requirements; (4) to identify how employees have achieved the current status of qualification and job-related competencies; (5) to assess the effectiveness of both formal and non-formal education in response to meet human resource development needs; and (6) to compare human resource needs, education and training strategies. Three tasks are to be accomplished before: (a) gathering background and sampling information; (b) contacting local authorities; and (c) piloting instruments. (ED97022)

Please refer to previous issues of this publication for more details of the following ongoing research at the department:

Edition Title/Investigators

1995-96 School-Based Management: Research and Development (Pilot Study) (CU95215)
✉ CHENG Yin Cheong

1995-96 Education and Development in South China: A Study of the Manpower System and Relevance of Education II (from the Perspective of Studies and Employees) (CU95217)
✉ CHUNG Stephen Yue Ping • LO Leslie Nai Kwai • MAK Chiu Ling Grace • XIAO Jin • WONG Hin Wah (Curriculum & Instruction)

1996-97 A Preliminary Review of University Finance Strategies in China and Hong Kong (ED96017)
✉ CHUNG Stephen Yue Ping • LIU Pak Wai (Economics)

1996-97 The Development of a Cross-Cultural Framework and Accompanying Instrumentation for the Comparative Analysis of School-level Organisation and Administration (ED96018)
✉ DIMMOCK Clive • WALKER Allan

1995-96 A Study on Parental Conceptions of Quality Education in Contemporary Chinese Communities (CU95210)
✉ MAN Si Wai • LAU Kwok Keung • CHAN Kin Keung*

1996-97 Organizational Values and Cultures of Primary Schools in Hong Kong (ED96007)
✉ PANG Sun Keung

1995-96 Discourse on Educational Quality: A Comparative and Historical Study (ED94037)
✉ TSANG Wing Kwong

1995-96 Policy and Development of Hong Kong Primary Educational System: An Interpretative Study (ED95047)
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see also <P981555>, <P982249>

RESEARCH PROJECTS

Educational and Emotional Needs of Gifted and Talented Students in Hong Kong

✉ CHAN David Wai Ock • CHEUNG Ping Chung
• TAY Pui Wan • YEUNG Pik Wah

□ 16 November 1997

❖ Research Grants Council

This project aims to study the special educational and emotional needs of gifted students in Hong Kong. First, with a set of more inclusive criteria for identifying giftedness and talents, the researchers aim to select a target group of gifted and talented youth who are intellectually bright, creative, and motivated in task commitment. Second, they aim to examine their special educational and emotional needs. Specifically, their learning strategies and learning styles, self-concept, coping abilities, psychological and adjustment problems will be assessed and examined using valid and reliable psychometric measures and via semi-structured interviews. Their findings will provide valuable and practical information for the design and development of gifted programmes to meet the special educational and emotional needs of our gifted students in Hong Kong. (CU97219)

Representational Fluency and Principled Understanding of Fractions

✉ NI Yujing

□ 1 March 1998

❖ CUHK Research Committee Funding

Much recent work in children's construction of fraction concepts has focused on the semantic analysis of the nature of rational number (which is constituted of the positive and negative fractions, the positive and negative integers, and zero). The subconstructs that are most commonly identified are part-whole, measure, quotient, operator, and ratio. Different graphical representations, of fractions, such as line segment, number line and area representation as well as equivalent vs. non-equivalent representation, are assumed to highlight particular aspects of the meanings assigned to a fraction. The goal of the study is to examine whether the different representations of fractions would assess different aspects of fraction concepts and whether the representation fluency would be significantly associated with further learning about fractions.

Three hundred Chinese students of fifth and sixth grade will participate in the study and complete a measure that includes: representational fluency, fraction computation, fraction, decimal, and percent transformation, symbols, procedures, and operations

applied to meaningful situations, and open-end explanation questions.

One theoretical interest of the proposed study is to help establish the psychological/linguistic reality of the constructs associated with external representations and its bonding with internal cognitive structures and processes. This will enhance our understanding how children construct the mathematical meanings of fractions and connect them as a coherent system. The educational implication of the proposed study is that perceptual variability provides students opportunity for mathematical abstraction about fractions. A measure utilizing the perceptual variability can be an effective diagnostic and assessment tool for informing learning and teaching fractions.

(ED97023)

Inhibition of Inappropriate Responses

✉ SHIU Ling Po

□ 1 November 1997

❖ CUHK Research Committee Funding

When subjects are asked to press a key in response to the location of a white stimulus bar presented on a monitor, and the positions of the response key and the stimulus are incongruent (Shiu & Kornblum, 1996), their response is delayed if the response for the current trial is congruent with the position of stimulus presented on the preceding trial, compared to an unrelated control. These "negative priming" effects suggest that the tendency to produce the response congruent with the stimulus is automatically activated and then inhibited. To provide further evidence that it is the congruent but inappropriate response that is being inhibited, two studies are proposed. The first study requires subjects to use either the same or different hands to make the response on the prime and probe trials. If the inhibition effect is specific to the hand, then no inhibition effects should be obtained when different hands are used on the prime and the probe trials. In the second study, the subjects make incongruent key press response to the position of a white stimulus on the prime trials. However, on some of the probe trials, they are free to press any of the keys to respond to a green stimulus presented at the center of the screen. It is predicted that the subjects would be unlikely to press the key whose position is congruent with the position of the prime stimulus.

(ED97008)

The Development of Reading Self-Concepts in Children: A Cross-cultural Validation Study

✉ TAY Pui Wan • CHAPMAN James W.*

□ 1 October 1997

❖ CUHK Research Committee Funding

Self-concept is an important construct in developmental psychology and is deemed to be closely linked to academic success. While most researchers agreed that self-concept should be considered as a multidimensional construct with different domains (e.g., academic, social, physical), few have further investigated whether there are additional subcomponents within areas of a particular domain of self-concept. Chapman and Tunmer (1995) addressed this issue and developed the Reading Self-Concept Scale, a self-report instrument for measuring three subcomponents within the reading area of academic self-concept, namely, perceptions of competence in reading, perceptions of difficulty of reading, and attitudes toward reading. The main purpose of the present study is to validate cross-culturally the Reading Self-Concept Scale with a sample of Hong Kong Chinese Children. A secondary purpose is to explore gender and age-related difference on the subcomponents of the Scale. It is anticipated that results from the present research, together with the principal investigator's previous research on the cognitive and metacognitive aspects of reading, could lay the ground work for future development of a study on cognitive and motivational determinants of reading achievement in Chinese children.
(ED97007)

Development of Phonological Awareness and Its Relations to English Reading and Spelling Competence in Primary School Children

✉ TAY Pui Wan • SHIU Ling Po
 □ 15 January 1998
 ❖ Language Fund

The majority of research in English language learning in the past two decades has revealed that reading and spelling proficiency is strongly related to students' phonological processing skills. Much of the research in this area, however, has been done with native English speakers. Whether this pattern of relationship applies to Chinese learners learning English as a second language has rarely been explored. The present research project represents one of the first few studies attempting to fill the gap in current research in English language learning by investigating the issues of phonological awareness and English reading and spelling proficiency with Chinese children. Selected subjects with their initial grade placement in grade one, three, or five will be tested twice during a two-year span to document students' developmental changes in phonological awareness and English reading and spelling skills. A series of phonological awareness tasks tapping different levels of awareness, and various measures of reading and spelling achievement for local use will be developed. The interrelationships among levels of phonological awareness, word identification and

reading comprehension skills, and spelling achievement will also be examined. The phonological tasks developed in this research can become easy-to-administer assessment tools for school teachers and educators in assessing students' phonological processing skills in English. It is also anticipated that results from the present research will provide educational implications for English language instruction at the primary level and lay the ground work for future development of intervention research aimed at enhancing English reading and spelling skills in Chinese students.
(ED97032)

Implicit Theories of Intelligence and Intuition

✉ WONG Wan Chi
 □ 1 November 1997
 ❖ CUHK Research Committee Funding

In contrast to "intelligence", "intuition" is an underdeveloped psychological construct in relation to explicit (scientific) as well as implicit (lay) theories. Intelligence and intuition have been postulated as the indispensable and complementary faculties of human mind in two recent lines of development: (1) the renaissance of Bergsonism (Deleuze, 1988; Felt, 1987; Gunter, 1987), and (2) the formation of a "double-edged mind" thesis from the gestalt perspective (Arnheim, 1986). Researchers in the area of expertise development have also highlighted the role of intuition in top performance (Berliner, 1986, 1988; Dreyfus & Dreyfus, 1986). Against this background, an investigation into the implicit theories of intelligence and intuition will be launched to unveil the perception of local people originated from diversified fields. In the first phase of the present study, professors and professional people from six fields (art, business, education, law, medicine, and psychology) as well as laymen will be invited to describe the (behavioral) characteristics of an ideally intelligent and ideally intuitive person respectively (N=200), Empirical inputs (the collected items of [behavioral] characteristics) and theoretical inputs (the conceptualization of Sternberg on intelligence plus the conceptualization of intuition by Bergson and Arnheim) will be synthesized carefully onto the new instrument that applied in the second phase. During this main study, new subjects will be invited to participate in the rating of (behavioral) characteristics. Apart from experts and laymen that correspond to the subjects of the first phase (N=200), teachers and parents (N=300) will also join to offer their responses. The underlying structure of intelligence and intuition will be detected via factor analyses on the ratings of the subjects.
(ED97009)

**East, West, Capitalism, Socialism, and Patriarchy:
Exploring Cultural and Political Influences on
Sexism**

✉ ZHANG Lei

□ 1 January 1998

❖ CUHK Research Committee Funding

Women's movement in the west, e.g. U.S.A., can be seen as resulting from patriarchal oppression in a culture that strives for individual rights and self-actualization. Its ideology focuses on women's rights as individuals. Women's liberation in the communist China was enforced as a government policy. In the communist gender views, the need to improve women's status is not observed as a human rights issue but as part of the bigger mission of class emancipation. It is believed that a drastic, government-imposed gender ideology change in China is likely to intensify hostile sexism in men. On the other hand, the individual oriented gender equality concept in the U.S. is unlikely to improve benevolent sexism which, on the surface, respects women as deserving individuals. The proposed study intends to explore the hypothesized cultural and political influences on men's attitudes towards women by conducting surveys in non-college student, age-stratified samples in these two countries. (SS97009)

**Identity Saliency and Self-Regulation in Enacting
and Expressing Gender Related Attitudes**

✉ ZHANG Lei • DEANX Kay*

□ 1 February 1998

❖ CUHK Mainline Research Scheme

Gender related attitudes will be examined in the context of social interaction and identity negotiation. In social interactions, people negotiate their identities corresponding to situational cues (Deaux & Ethier, in press). Accordingly, they construct gender related attitudes in accordance with their enacted identities. Hence, people may feel differently about men and women depending on the roles they assume and interaction goals they have. However, because of the relative stability of the hierarchical structure of one's identity repertoire (Deaux, 1992), the center identity on the hierarchy exerts a more permanent and pervasive influence on attitudes and behaviors across situations. For example, a woman who identifies herself primarily as a housewife may, in general, hold traditional gender views. Thus, there are two forces influencing one's gender related beliefs: the need to routinize gender views in accord with one's primary social identity and the need to contextualize gender views to align with situationally enacted identities (Deaux & Major, 1987). Another variable, self-regulating style, is expected to exert a regulating

weight in gender relevant social interactions. People who have the propensity to internally vs. externally regulate behavior, e.g., private vs. public self-consciousness (Scheier & Carver, 1985), are expected to express more consistent gender views in alignment with their centrality of the identity repertoire. Similarly, when the external vs. internal concern or self-presentation vs. self-verification mode (Swann, 1984) dominates a social context, individuals may allow the situational expectations to constrain their gender view expressions (Deaux & Major, 1987). Such gender attitude expressions should coincide with the enacted identities.

In the proposed study, the researchers will examine this dynamic process where self-regulation and identity saliency together determine the expression of gender related views. Their model puts an intra-individual as well as a multi-dimensional perspective on gender attitudes which have traditionally been studied as a static, and often unidimensional (e.g., Spence, Helmreich, & Stapp, 1973) inter-individual variable. The researchers propose these hypotheses:

People high in private vs. public self-consciousness demonstrate a higher consistency in expressing gender views across situations.

Under the activated state of self-presentation vs. self-verification, people's expression of gender views will be less consistent across different identity cues.

Individuals who identify primarily with work related roles are expected, through chronic accessibility of their identities, to be more gender egalitarian than those who identify primarily with home related roles. When a particular work-related versus home-related identity is made distinctive, individuals are expected to feel more gender egalitarian.

High publics vs. high privates are expected to report a larger change of gender attitudes associated with work vs. home related identities.

In addition, the researchers will explore these hypotheses cross-culturally by comparing Chinese with Americans. In this regard, they will rely on the broad individualism-collectivism conceptual guideline in explaining East-West differences in social interactions.

(SS97004)

**Please refer to previous issues of this publication
for more details of the following ongoing research
at the department:**

Edition	Title/Investigators
1993-94	Education Quality Research Programme (ED93012) ✉ CHAN David Wai Ock • CHENG Yin Cheong (Educational Administration & Policy) • TSANG Wing Kwong (Educational Administration & Policy) • MAN Si Wai (Educational Administration &

- Policy) • LAU Kwok Keung (Educational Administration & Policy) • LEE Shui Chuen (Educational Administration & Policy)[#] • MAK Se Yuen (Curriculum & Instruction) • WONG Ngai Ying (Curriculum & Instruction) • SIU Lai Ping Teresa (Curriculum & Instruction) • HO Man Koon (Curriculum & Instruction) • CHOW Hon Kwong (Curriculum & Instruction) • CHEN Wen Ning*
- 1995-96 Teacher Stress in Hong Kong: An Integrated Study of Sources, Process, and Outcomes (ED95028)
✍ CHAN David Wai Ock
- 1996-97 Assessing Adult Cognitive Functioning Using a Chinese Vocabulary Test (ED96008)
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- 1992-93 Assessment of Student Creativity with the Wallach-Kogan Creativity Tests (ED92014)
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- 1996-97 Assessment of Primary School Mathematics Learning Targets (ED95066)
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- 1995-96 The Design of an Instrument for the Evaluation of Classroom Teaching in Science Subjects (ED95064)
- ✍ HEYWORTH Rex Malcolm
- 1996-97 A Cross-cultural Investigation of Cognitive Development in the Field of Secondary School Science (ED96025)
✍ HEYWORTH Rex Malcolm
- 1996-97 The Career Development of High School Students in Hong Kong (ED96020)
✍ LEUNG Seung Ming
- 1996-97 An Examination of the Validity of the Strong Interests and Skills Confidence Inventory among University Students in Hong Kong (ED96010)
✍ LEUNG Seung Ming
- 1995-96 Performance Variation in Classification Tasks in Relation to Operational Level and Content Knowledge Level (ED95053)
✍ NI Yujing
- 1996-97 Negative Priming Effects as a Function of Task Demand and Practice (ED96021)
✍ SHIU Ling Po
- 1995-96 Student Motivation and the Development of Metacognitive Reading Skills: A Cognitive-developmental Inquiry (ED95049)
✍ TAY Pui Wan
- 1996-97 Modes of Historical View among Young Citizens in Hong Kong (ED96032)
✍ WONG Wan Chi
- 1996-97 Gender Roles in Hong Kong, China and America: Cross-Cultural and Cross-Gender Comparisons (ED96019)
✍ ZHANG Lei
- 1996-97 A Generalizability Theory Based Model of Intrajudge Inconsistency and Comparisons Among the Angoff, Nedelsky, and Revised Nedelsky Standard-Setting Methods (ED96026)
✍ ZHANG Lei • VAN DER LINDEN Wim J.*

RESEARCH OUTPUTS AND PUBLICATIONS

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RESEARCH PROJECTS

Test Battery for the Motor Skills Squash: Implications for Assessing and Coaching

✉ CHAN Wan Ka Daniel • HONG Youlian • CHOI Yuk Kwan*

☐ 1 April 1998

❖ Hong Kong Sports Development Board Research Grant

There are no test battery for the motor skills of squash. Strand and Wilson (1993) summarized the sports tests and introduced the Cahill squash test (1977) to be the currently test in squash. This test is to evaluate volley, serve, and forehand strokes in squash. Validity coefficients of 0.87 and 0.71 were reported for the 30-second rally and forehand crosscourt shot. The sample of the test mainly is college students, the others are junior high school and senior high school students. The tests was count by 30-second rally, the sample is requested to hit the ball on an target area on the front wall. However, in the real squash competition situation, hitting the target on the front wall should not be the main criterion of the skills of squash. Instead of this, the game strategy, the performance outcome, the placement of the ball, and the skills patterns are importance. This research aim to develop a test battery for squash. Firstly, game strategy will be assessed by the method of Notational analyses. Secondary the performance outcome, the placement of the ball, was assessed by an performance outcome tests. In which the skills of serve; forehand and backhand drive, volley, drop, and boast will be assessed. Finally, the skills pattern will be assessed through the film by the qualitative analysis form. (ED97030)

Analysis of Hong Kong Student's Academic Learning Time in Physical Education (ALT-PE) and Heart Rate Intensity among Three Instructional Models

✉ HA Sau Ching Amy • JOHNS David

☐ 1 January 1998

❖ CUHK Research Committee Funding

The aim of this study is to examine and compare three teaching formats on student's academic learning time in physical education (ALT-PE) and heart rate levels. The subjects in this study will be four hundred and eighty junior secondary school students. Direct observation methods will be used to collect student's academic learning time and heart rate levels during physical education lessons. Three different instructional formats including (1) skill-play integration model, (2) fitness skill-play integration model A, and (3) fitness skill-play integration model

B will be used to determine the significant difference on academic learning time in physical education and student's heart rate intensity. A survey will also be conducted to collect student's view on different instructional formats. In Hong Kong, only a double period of seventy minutes physical education session is allocated for the secondary school curriculum, therefore, a well-designed instructional model for our children to maximise their growth and personal development is imperative. (ED97010)

A Study on Changes of Muscle Functional Ability with Aging in the Elderly in Hong Kong

✉ HONG Youlian • JOHNS David • HA Sau Ching Amy

☐ 1 March 1998

❖ CUHK Research Committee Funding

Falls and the resulting injuries are among the most serious and common medical problem suffered by elderly. In Hong Kong, a cross-sectional study published in 1996 with a number of 1947 ambulatory subjects showed that at least one fall had occurred in the previous 12 months among 18% of the respondents. About one-third of falls resulted in soft tissue injuries; 4.6% of the falls in men and 8.5% in women resulted in fractures. Hospitalization was required for 17.4% of the falls or 30% of the resulting injuries.

It has been pointed out in literature that the change of muscular function with aging is one of the factors leading to the increase of falls as well as hip fracture in elderly people. Muscle strength declines by approximately 15% per decade in the 6th and 7th decade and about 30% thereafter. Other studies stated that there are differences on the change of muscle function with advance aging among residents in different countries. Knowledge about the changes of muscle function with aging of Chinese elderly living in Hong Kong is lacking.

In this study, three groups of healthy male subjects at ages 51 to 60, 61 to 70 and 71 to 80 years old will be recruited from nursing homes in Hong Kong. Each group will consist of 30 subjects. A Cybex isokinetic system will be used to measure dynamic endurance and strength of the quadriceps femoris, and an electromyography measurement system will be used to measure the muscle excitability. Data will be analyzed by using ANOVA with post-hoc multiple comparison tests. It is expected that the information of the changes in muscle functional ability in the elderly in Hong Kong will be profiled and an approach to a more comprehensive study on the prevention of falls in the elderly Hong Kong will be established. (ED97024)

Biomechanical Analysis of Taekwondo Kicking Technique, Performance and Training Effects

✉ HONG Youlian • LEUNG Hing Kam* • LUK Tze Chung

□ 1 June 1998

❖ Hong Kong Sports Development Board Research Grant

The purpose of this study is to investigate the kicking technique and performance, so as to develop a set of well training protocol to improve the kicking technique and performance of Taekwondo athletes in Hong Kong. A pre- and posttest sessions will be arranged for the Taekwondo athletes to examine the effectiveness of the designed training protocols which are based on the results of the pretest. For each test session, the Taekwondo frontal attack kicking technique such as sidekick, pushing kick, slap kick and back kick will be investigated. Kicking performance will be video filmed and muscle activity will be recorded by electromyography (EMG) system. Percentage of muscle group recruitment can be calculated by EMG signal analysis. Motion of kicking will be recorded in videotape which will be digitized on motion analysis system to obtain the speed of motion and reaction time of kicking. Moreover, ground reaction force produced by axial leg will be measured by force platform and the force produced during kicking the attack target will be measured by a force sensor linked with attack target. All the results will be used to design the training protocols, which aims to improve the kicking performance and technique through five months training practice.
(ED97031)

Sport and Society

✉ LAU Wing Chung

□ 1 September 1997

❖ Education Department, Hong Kong Government

Since the sport and society chapter in Physical Educator textbook, Hong Kong Certificate of Education Examination, had written in many years ago, the content is needed to be updated. The theoretical components and format also needed to be reconsidered due to the new era of Hong Kong after 1997. Many social issues and aspects related to Hong Kong sport development and phenomenon are undergoing dramatic changes. Thus, there is an urgent need to write a supplementary reference material for the physical education examination text of HKCEE. The objectives of this project are to help secondary school students understand the inter-relationship between sport and society in Hong Kong in a practical way. More local examples, case studies and discussions are added to the new reference

material in order to stimulate students thinking and interest in this area.
(ED97013)

An Investigation of Social Factors for Sport Participation of School Children

✉ LAU Wing Chung

□ 1 January 1998

❖ Faculty of Education, CUHK

Sport for children is considered very important in contemporary society. Most of the research literature supported that sport has psychological, physiological and sociological benefits to people. Evidence is also found that early participation in sport can decrease many health risks. Thus, the earlier involvement you are in sport, the better and healthier life you may enjoy. Since an active life style is established through a long time internalization of certain behavior, many researchers suggested that sport should be encouraged and reinforced from childhood. On the other hand, the time of sport involvement of children has been dropping throughout the past two decades. One of the main reasons is the social and environmental factor which hinder children's participation in sport. This paper is an attempt to investigate the effects of social factors on children's sport participation. The social factors included in this study are family influence, school influence, peers influence, family socioeconomic status, and accessibility to sport. The result indicated that only the direct participation with the peers in sport has the impact in children's intentions to the sport adoption or maintenance.
(ED97014)

The Effects of Nutrition on Endurance Running Performance in Woman

✉ WONG Heung Sang Stephen • ARUMANAYAGAM Manoharan (Chemical Pathology) • LEUNG Chi Bon (Medicine & Therapeutics) • *

□ 1 October 1997

❖ CUHK Research Committee Funding

Well stocked stores of muscle glycogen are essential for successful performance during activities which involve prolonged, continuous or intermittent, heavy exercise. Although previous studies have described the benefits of carbohydrate supplementation during prolonged exercise of male subjects, little attention, if any, has been given to the question of the similar success of nutritional intervention on female subjects in general, and Chinese women athletes in particular. Thus, the specific aim of the proposed project is to investigate the efficacy of carbohydrate ingestion during prolonged, submaximal running on female

endurance-trained athletes in Hong Kong, as a method of ensuring the substrate provision so as to enhancing their exercise performance. The practical significance of the answers to these questions are readily appreciated by those exercise scientists, health professionals, coaches and athletes in Hong Kong who are involved in the preparation and participation in sports in which success is primarily determined by effective energy provision and fluid replacement.
(ED97011)

Effects of Rehydration on Recovery from Prolonged Running and Subsequent Exercise Performance

- ✉ WONG Heung Sang Stephen • WILLIAMS Clyde* • HONG Youlian • HA Sau Ching Amy • ARUMANAYAGAM Manoharan (Chemical Pathology) • LEUNG Chi Bon*
- ☐ 1 April 1998
- ❖ CUHK Research Committee Funding • Hong Kong Sports Development Board Research Grant

Fatigue during prolonged heavy exercise is the result of the interplay of three factors. They are the depletion of the limited carbohydrate (CHO) stores in skeletal muscles, hyperthermia as a consequence of inadequate temperature regulation and dehydration as a consequence of exercise-induced fluid loss. Recovery from exercise-induced dehydration is essential in all situations, especially in the hot environment in Hong Kong. An effective rehydration strategy can not only hasten the recovery processes of athletes after training or competition, but also contribute to the regulation of normal body temperature. The benefits and the physiological responses of rehydration with CHO before and during exercise have been extensively studied in the past decade. However, little attention has been paid to the influence of rehydration on the recovery processes. This in spite of the fact that the optimum physiological function of cells depends on the constancy of their fluid balance. Therefore, the aim of the project of research is to identify the role of rehydration on the recovery of exercise capacity in general, and muscle function in particular, after prolonged submaximal running. The practical significance of the answers to these questions is readily appreciated by those athletes, coaches, sports scientists, physical education teachers, who are involved in the preparation for, and the participation in, sports in which success is primarily determined by effective fluid replacement and energy restoration. The information generated from the project would also be useful to those medical and health professionals who are practicing in tropical and

subtropical environments in which dehydration is a common health problem.
(ED97025)

Please refer to previous issues of this publication for more details of the following ongoing research at the department:

<u>Edition</u>	<u>Title/Investigators</u>
1996-97	The Go! Sport Programme: A Three Years Performance Review (ED96004) ✉ CHAN Wan Ka Daniel • SHUTTLEWORTH James# • HA Sau Ching Amy
1996-97	Specialist Teachers' Evaluation of Hong Kong Certificate of Education Examination in Physical Education (ED96022) ✉ CHAN Wan Ka Daniel • JOHNS David
1996-97	A Study of the Relationship of Teacher Behaviours to Student Physical Activity Levels in Shanghai, Taiwan, and Hong Kong Schools (ED96011) ✉ HA Sau Ching Amy
1996-97	Biomechanical and Physiological Responses to Carrying School Bags by School Children - A Pilot Study (ED96012) ✉ HONG Youlian
1996-97	Badminton Tactic Analysis in International Competition (ED96013) ✉ HONG Youlian • TONG Yuen Ming • CHAU Yat Kwong* • CHAN Chi Choi*
1996-97	Eating Behaviours of Rhythmic Gymnasts (ED95065) ✉ JOHNS David
1996-97	Evaluating Mental Preparation of Track and Field National Team Athletes at the Atlanta Olympic Games (ED96036) ✉ JOHNS David
1996-97	Measuring Physical Activity Levels During Primary and Secondary School Physical Education Classes (ED96023) ✉ JOHNS David • HA Sau Ching Amy

RESEARCH OUTPUTS AND PUBLICATIONS

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