

# Benjamin John Cowling

BSc, PhD, FFPH

## Current position

**Professor and Head, Division of Epidemiology and Biostatistics, School of Public Health, The University of Hong Kong, Hong Kong**

I conduct research on infectious disease epidemiology in the WHO Collaborating Centre for Infectious Disease Epidemiology and Control at the School of Public Health at the University of Hong Kong. My primary research area is the epidemiology of respiratory infections, particularly respiratory viruses including influenza virus. In recent years I have designed and implemented of large field studies of influenza virus infection and transmission in the community, and the effectiveness and impact of control measures. My research spans from analyses of transmission dynamics at the individual level up to disease burden and dynamics at the population level, and a core interest is in understanding how the characteristics of person-to-person spread contribute to patterns in incidence of infections in populations. In 2015 I was awarded a [Croucher Senior Research Fellowship](#) for my work on influenza virus epidemiology.

I have ongoing collaborations with local and international colleagues on the mathematical modelling of infectious diseases via my role in the [Harvard Centre for Communicable Disease Dynamics](#), supported by the US National Institute of General Medical Sciences MIDAS program. I also collaborate with colleagues in Hong Kong and overseas on projects in infectious disease surveillance, the aetiology of certain non-communicable diseases, and the economic evaluation of healthcare technologies and policies.

My [listing in Scopus](#) includes 230 publications, of which more than 80 are original research articles as first, corresponding or senior author, with more than 3400 citations in total. My “h-index” is 30, and I am included in the “top 1%” most cited scientists in ISI Web of Knowledge. A full publication list is included below. I co-ordinate two postgraduate MPH modules including the first-semester introductory courses in biostatistics and epidemiology offered to all postgraduate students in the Faculty of Medicine. I currently supervise 12 research postgraduate students including 6 as primary supervisor. In 2014, I founded the [Biostatistics and Clinical Research Methodology Unit](#) in the School of Public Health, with a mandate to provide technical support to clinical research activities in the Li Ka Shing Faculty of Medicine.

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## Employment

2015-	<b>Professor (with tenure), and</b>
2013-	<b>Head, Division of Epidemiology and Biostatistics, and</b>
2013-15	<b>Associate Professor (with tenure), and</b>
2008-12	<b>Assistant Professor, and</b>
2006-08	<b>Research Assistant Professor, and</b>
2005-06	<b>Research Scientist, and</b>
2004-05	<b>Senior Research Assistant, School of Public Health, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Hong Kong.</b>
2003-04	<b>Research Statistician, Department of Infectious Disease Epidemiology, Faculty of Medicine, Imperial College London, UK</b>

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## Education

- 2003 PhD in Statistics, *Department of Statistics, University of Warwick, UK.*  
Thesis title: Survival models for censored point processes.
- 2000 BSc with first class honours in M.O.R.S.E. (mathematics, operational research, statistics, and economics). *Department of Statistics, University of Warwick, UK.*
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## Society Memberships

- 2014- Fellow, Faculty of Public Health (RCP, UK).
- 2009- Member of the International Society for Influenza and other Respiratory Virus Diseases.
- 2006-14 Member of the American Statistical Association.
- 2004- Fellow of the Royal Statistical Society.
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## Editorial Boards

- 2014- Senior Editor, *Influenza and Other Respiratory Viruses.*
- 2014- Section Editor, *PLoS ONE.*
- 2013- Editor, *PLoS Currents: Outbreaks.*
- 2011-14 Associate Editor, *Influenza and Other Respiratory Viruses.*
- 2010-14 Academic Editor, *PLoS ONE.*
- 2009- Academic Editor (guest), *PLoS Medicine.*
- 2010-12 Deputy Section Editor (Epidemiology – Infectious Diseases), *BMC Public Health.*
- 2008-12 Associate Editor, *BMC Public Health.*
- 2006-08 Associate Editor, *Advances in Disease Surveillance.*
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## Awards

- 2015 Croucher Senior Research Fellowship 2015, *Croucher Foundation, Hong Kong.* This prestigious award supports a replacement teacher for one calendar year.
- 2014 Outstanding Research Output Award 2013-14, *Li Ka Shing Faculty of Medicine, The University of Hong Kong.* Received in recognition of research on the comparative epidemiology of human infections with avian influenza A(H5N1) and A(H7N9) viruses.
- 2014 Outstanding Research Output Award 2013-14, *Li Ka Shing Faculty of Medicine, The University of Hong Kong.* Received in recognition of research on the clinical severity of human infections with avian influenza A(H7N9) virus.
- 2014 Awarded Fellowship by Distinction, Faculty of Public Health, Royal Colleges of Physicians, UK.
- 2013 Publication co-authored with Dr Mary Schooling and Dr Guy Freeman, “Mendelian Randomization and Estimation of Treatment Efficacy for Chronic Diseases” selected as one of the ten [2013 Articles of the Year](#) by the *American Journal of Epidemiology.*
- 2013 President’s Prize for best presentation, *Hong Kong College of Community Medicine Annual Meeting, September 2013.*
- 2011 Outstanding Young Researcher Award, *The University of Hong Kong.* Received in recognition of research accomplishments including publications, the ability to attract research grants, and high-impact applied research work.
- 2011 Outstanding Research Output Award 2010-11, *Li Ka Shing Faculty of Medicine, The University of Hong Kong.* Received in recognition of research on household transmission of seasonal and pandemic influenza.

- 2010 Excellent Research Award (Public Health), *Health Research Symposium 2010, Food and Health Bureau, Hong Kong*. Received in recognition of excellent public health research work on influenza conducted before and during the 2009 pandemic.
- 2010 Young Investigator Award, *XII International Symposium on Respiratory Viral Infections, Taipei*. Received in recognition of research on household transmission of seasonal and pandemic influenza presented at the conference.
- 2008 Young Scientist Award, *Third European Influenza Conference, Vilamoura, Portugal*. Received in recognition of research on influenza transmission dynamics presented at the conference.
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## Professional Honours

- 2014 Appointed Fellow of the Faculty of Public Health by distinction.
- 2006 Academic visitor, *Centre for Research in Statistical Methodology (CRiSM), Department of Statistics, University of Warwick, UK*.
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## Committee Membership

- 2016 Scientific Committee member, *Options for the Control of Influenza IX, Chicago, September 2016*.
- 2014- Chairman, Research Safety Committee, School of Public Health, The University of Hong Kong.
- 2014 Member, Local Organizing Committee, *Indoor Air 2014*.
- 2013- Chairman, IT Committee, School of Public Health, The University of Hong Kong.
- 2013- Member, Executive Committee, School of Public Health, The University of Hong Kong.
- 2012- Elected Board Member, *International Society for Influenza and other Respiratory Virus Diseases*.
- 2012 Member, Organising Committee, *Incidence, Impact and Severity. An ISIRV international conference on seasonal and pandemic influenza, Munich, September 2012*.
- 2010 Member, Organising Committee, *Frontiers in Biomedical Research 2010, The University of Hong Kong*.
- 2009- Member, the Grant Review Board, *Health and Medical Research Fund, Hong Kong*.
- 2009-14 Member, Executive Committee, *NIGMS/NIH Models of Infectious Disease Agent Study*.
- 2009 Member, Organising Committee, *Inauguration of the School of Public Health, The University of Hong Kong, September 2009*.
- 2009 Member, *Research Response Group for Human Infection with Swine Influenza, Food and Health Bureau, Hong Kong*.
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## Consultancy

- 2012-13 Consultant, Crucell NV.  
I consulted for Crucell NV on the improvement of interventions for prevention and treatment of influenza virus infections.
- 2006-12 Short Term Consultant, World Health Organisation, Beijing, China.  
I have consulted for the WHO and assist China CDC and Chinese research groups to develop and improve infectious disease surveillance systems across China. In recent years I have advised on the improvement of notifiable disease systems, the establishment of syndromic surveillance networks prior to mass gatherings including the 2008 Beijing Olympics and the 2010 Shanghai World Expo, and on the choice of statistical methods for the early detection of emerging disease clusters. Most recently I have worked with the China National Influenza Centre to develop methods for improved interpretation of routine influenza surveillance data across China.
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## Reviewer

2015	Grant reviewer, AXA Research Fund, France
2015	Grant reviewer, ZonMw Infectious Disease Control Programme, the Netherlands.
2015	Grant reviewer, Joint Global Health Trials, a joint scheme run by MRC, Wellcome Trust, and DFID.
2013	Grant reviewer, Singapore MOH CD-PHRG programme.
2013	Grant reviewer, UK NIHR Fellowship Programme.
2011	Grant reviewer, Canadian Institutes of Health Research.
2011	Grant reviewer, Portuguese Foundation for Science and Technology.
2009	Grant reviewer, Health Research Council of New Zealand.
2008	Grant reviewer, European Union FP7 Health (infectious disease epidemiology and control).
2008	Grant reviewer, ZonMw Infectious Disease Control Programme, the Netherlands.
2004-14	Peer reviewer for 75 journals including: <b>American Journal of Epidemiology</b> , <i>American Journal of Infection Control</i> , <b>Annals of Internal Medicine</b> , <i>Antiviral Therapy</i> , <i>Applied Statistics</i> , <i>Archives of Environmental Health</i> , <i>Archives of Gynecology and Obstetrics</i> , <i>Archives of Pediatric and Adolescent Medicine</i> , <i>Biometrics</i> , <i>BMC Infectious Diseases</i> , <i>BMC Medical Informatics and Decision Making</i> , <b>BMC Medicine</b> , <i>BMC Public Health</i> , <b>BMJ</b> , <i>Bulletin of the World Health Organization</i> , <b>Clinical Infectious Diseases</b> , <i>Contemporary Clinical Trials</i> , <b>eLife</b> , <b>Emerging Infectious Diseases</b> , <b>Epidemiology</b> , <i>Epidemiology and Infection</i> , <i>Eurosurveillance</i> , <i>Expert Review of Anti-infective Therapy</i> , <i>Expert Review of Vaccines</i> , <i>Future Microbiology</i> , <i>Indoor Air</i> , <i>Infectious Disease Reports</i> , <i>Influenza and Other Respiratory Viruses</i> , <i>Influenza Research and Treatment</i> , <i>International Journal of Biostatistics</i> , <b>International Journal of Epidemiology</b> , <i>International Journal of Infectious Diseases</i> , <i>Journal of Emergencies Trauma and Shock</i> , <i>Journal of Global Infectious Diseases</i> , <b>JAMA</b> , <i>Journal of Infection</i> , <i>Journal of Infection and Public Health</i> , <i>Journal of Infection in Developing Countries</i> , <b>Journal of Infectious Diseases</b> , <i>Journal of Mathematical Modelling and Algorithms</i> , <i>Journal of Medical Virology</i> , <i>Journal of Occupational and Environmental Hygiene</i> , <i>Journal of the Royal Society Interface</i> , <i>Journal of the Royal Statistical Society Series A</i> , <b>The Lancet</b> , <b>The Lancet Infectious Diseases</b> , <b>The Lancet Respiratory Medicine</b> , <i>Medical Journal of Australia</i> , <b>New England Journal of Medicine</b> , <i>Open Forum Infectious Diseases</i> , <i>Open Medicine</i> , <i>Pan American Journal of Public Health</i> , <i>Pediatric Infectious Disease Journal</i> , <i>Pediatrics</i> , <i>Pharmacoeconomics and Drug Safety</i> , <i>Pediatrics</i> , <i>PLoS Computational Biology</i> , <b>PLoS Medicine</b> , <i>PLoS Neglected Tropical Diseases</i> , <i>PLoS ONE</i> , <b>PLoS Pathogens</b> , <b>PNAS</b> , <i>Preventive Medicine</i> , <i>Proceedings of the Royal Society B: Biological Sciences</i> , <i>Respirology</i> , <i>Risk Analysis</i> , <i>Scandinavian Journal of Infectious Diseases</i> , <i>Scientific Reports</i> , <i>Statistical Methods in Medical Research</i> , <i>Statistics in Medicine</i> , <i>Theoretical Biology and Medical Modelling</i> , <i>Trials</i> , <i>Tropical Medicine and International Health</i> , <i>Vaccine</i> , <i>Western Pacific Surveillance and Response Journal</i> .

## Research Grants

Total funding for research grants as PI or co-PI exceeds US\$8m (HK\$65m).

	Period	Role	Title	Funding body
2015	2015-17	co-I	Characteristics of gut microbiota in Chinese adolescents and its related diseases (Ref 12133091)	Health and Medical Research Fund (Hong Kong)
2015	2015-17	PI	Association between basal leukocyte transcriptome profile and symptom development & disease severity after influenza virus infection in humans (Ref 14130662)	Health and Medical Research Fund (Hong Kong)

2015	2015-17	PI	Real-time estimation of the severity of influenza viruses (Ref 14131432)	Health and Medical Research Fund (Hong Kong)
2014	2014-15	PI	Risk communication, psychological and behavioral responses to avian influenza A(H7N9) in Hong Kong (Ref: RRG-12)	Health and Medical Research Fund (Hong Kong)
2014	2014-15	PI	Influenza surveillance program of the global influenza hospital surveillance network in mainland China	Sanofi Pasteur
2014	2014-15	PI	Efficacy of face masks to prevent respiratory virus transmission (Ref: 13120592)	Health and Medical Research Fund (Hong Kong)
2013	2013-15	PI	A community-based longitudinal seroepidemiological study of influenza virus infections in Hong Kong in 2013-14 (Ref: 13120732)	Health and Medical Research Fund (Hong Kong)
2013	2013-14	PI	Household transmission of influenza virus year 3 (subcontract to: HHSN266200700005C)	NIH/NIAID (USA)
2013	2013-15	PI	Influenza virus epidemiology in households of school-age children, 2013-14 (Ref: 13120602)	Health and Medical Research Fund (Hong Kong)
2012	2012-13	PI	A community-based study of respiratory virus infections (Ref: 12110912)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2012	2012-13	PI	Household transmission of influenza virus year 2 (subcontract to: HHSN266200700005C)	NIH/NIAID (USA)
2011	2011-13	PI	Efficacy of face masks to prevent influenza virus transmission: an experimental study (Ref: 765811)	Research Grants Council GRF (Hong Kong)
2011	2011-12	PI	The epidemiology of influenza in households of school-age children (Ref: 11100882)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2011	2011-12	PI	Vitamin D and risk of influenza in children and adults in Hong Kong (Ref: 11100862)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2011	2011-14	co-I	Role of Vitamin D and its genetic polymorphisms in Epstein-Barr virus activity and the risk of nasopharyngeal carcinoma	World Cancer Research Fund International
2011	2011-12	PI	Household transmission of influenza virus year 1 (subcontract to: HHSN266200700005C)	NIH/NIAID (USA)

2011	2011-12	co-I	A randomised controlled trial of traditional Chinese medicine for influenza prophylaxis in elderly residential care homes in Hong Kong (Ref: 1110562)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2011	2011-13	co-I	Development of an electronic school absenteeism system for influenza-like illness surveillance in Hong Kong (Ref: 10090972)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2011	2011-12	co-I	Longitudinal study of the temporal changes of contact patterns of individuals in Hong Kong (Ref: 11100642)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2011	2011-12	co-I	Optimizing resource allocation for breast cancer prevention and care in Hong Kong Chinese: A generalized cost-effectiveness analysis (Ref: 09100921)	Health and Health Services Research Fund (Hong Kong)
2010	2010-13	PI	A longitudinal community study of influenza virus infections in Hong Kong (Ref: HKU 776810)	Research Grants Council GRF (Hong Kong)
2010	2010-12	co-I	Host genetic determinants of susceptibility to pandemic influenza A(H1N1) infection (Ref: HKU 767510)	Research Grants Council GRF (Hong Kong)
2010	2010-11	PI	Influenza-like illness and viral aetiology in Hong Kong children (Ref: 10091272)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-14	co-PI	Epidemiology and control of infectious diseases in Hong Kong (PI: TH Lam)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-14	PI	The Harvard Center for Communicable Disease Dynamics (subcontract to: 1 U54 GM088558)	NIH/NIGMS (USA)
2009	2009-12	PI	Direct and indirect benefits of influenza vaccination in schools and households (Ref: FLU030-08)	MedImmune Inc. (Investigator Initiated Trial)
2009	2009-10	PI	Flagship collaboration project: surveillance surveys on population-based responses to human swine influenza in Hong Kong. (Ref: PHE-1)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-10	PI	The attack rate, transmission dynamics and viral evolution in a cohort of Hong Kong families during an epidemic of novel influenza virus (H1N1). (Ref: PHE-2)	Research Fund for the Control of Infectious Diseases (Hong Kong)

2009	2009-10	co-I	A detailed longitudinal study of infection attack rates among healthy adults in Hong Kong during the epidemic of the human swine influenza A/H1N1 virus in 2009 (Ref: PHE-20; PI: JT Wu)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-10	co-I	A longitudinal community study of influenza virus infections in Hong Kong (Ref: PHE-21; PI: S Riley)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-11	PI	A cost-effectiveness analysis of Helicobacter pylori screening for gastric cancer in Hong Kong Chinese: a decision analytic approach (Ref: 07080861)	Health and Health Services Research Fund (Hong Kong)
2009	2009-11	co-I	The effect of decision aids on treatment decision making for breast cancer surgery: a randomized controlled trial (Ref: 07080651; PI: WWT Lam)	Health and Health Services Research Fund (Hong Kong)
2009	2009-11	co-I	The transmission of tuberculosis in Hong Kong: role of demographic factors and relative contribution of primary infection, exogenous reinfection and endogenous reactivation (Ref: 09080802; PI: EHY Lau)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-10	co-I	Behavioural changes in relation to risk perception and prevention of avian and human influenza in the general population of Hong Kong, 2006 to 2009 (PI: R. Fielding)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-10	PI	Effectiveness of vaccinating children in reducing influenza among household contacts - a community-based, randomized controlled trial. (Ref: CHP-CE-03)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2009	2009-10	PI	Household transmission of influenza virus (subcontract to: HHSN266200700005C)	NIH/NIAID (USA)
2008	2008-09	PI	Viral shedding, natural clinical history and transmissibility of influenza. (Ref: 08070632)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2008	2008-10	co-I	Is moderate alcohol use causally protective against cardio-respiratory disease? (Ref: 06070981; PI: CM Schooling)	Health and Health Services Research Fund (Hong Kong)
2008	2008-09	co-I	Epidemiological implications of viral evolution from one generation of human influenza infection to the next. (Ref: 08070562; PI: S Riley)	Research Fund for the Control of Infectious Diseases (Hong Kong)

2008	2008-09	co-l	Digital dashboard design for public health surveillance. (Ref: 08070662; PI: EHY Lau)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2008	2008-09	co-l	Are the 2006 World Health Organisation standards for infant growth applicable to Hong Kong Chinese? Universalistic standards or epidemiologic transition stage-specific norms. (Ref: 06071031; PI: CM Schooling)	Health and Health Services Research Fund (Hong Kong)
2007	2007-10	PI	Supplement to: Methodological approaches to planning and analysis of new infectious diseases. (Ref: 5 U01 GM076497-02)	NIH/NIGMS (USA)
2007	2007-15	co-l	Area of Excellence in control of pandemic and inter-pandemic influenza. (Ref: AoE/M-12/06; PI: JSM Peiris)	University Grants Committee (Hong Kong)
2007	2007-08	co-l	Supplement to: Evaluation of Masks as a Source Control NPI. (Ref: 1 U01 CI000446-01; PI: DK Milton)	Centers for Disease Control and Prevention (USA)
2006	2006-07	PI	Comparison of statistical algorithms for early detection of the start of the annual influenza peak season in Hong Kong using sentinel surveillance data. (Ref: 04050102)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2006	2006-09	PI	A controlled trial of masks and hand hygiene for reducing influenza transmission. (Ref: 1 U01 CI000439-01)	Centers for Disease Control and Prevention (USA)
2006	2006-08	co-l	Impact of the 1990 Hong Kong legislation for restriction on sulfur content in fuel. (Ref: 4744-RFP04-4/06-5; PI: CM Wong)	Health Effects Institute (USA)
2006	2006-08	co-l	A 3-year follow-up study of the Hong Kong Population Health Survey cohort on overweight and obesity and its related behavioural factors. (Ref: 04060571; PI: TH Lam)	Health and Health Services Research Fund (Hong Kong)
2006	2006-08	co-l	Identifying the most effective public health interventions to control the spread of a new or re-emerging directly transmitted human pathogen within and between the cities of Hong Kong and Guangzhou. (Ref: 05050122; PI: S Riley)	Research Fund for the Control of Infectious Diseases (Hong Kong)
2006	2006-08	co-l	Identification of the key elements of transmission of Japanese encephalitis virus in Hong Kong. (Ref: 05050132; PI: S Riley)	Research Fund for the Control of Infectious Diseases (Hong Kong)



2006	2006-07	co-I	Influenza vaccination and hospitalisations in clients of Elderly Health Centres. (Ref: 04050182; PI: CM Schooling)	Research Fund for the Control of Infectious Diseases (Hong Kong)
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## Teaching

I co-ordinate two postgraduate Master of Public Health modules:

Course	Title	Enrolment	My involvement
CMED6100	Introduction to Biostatistics	195 students (2013)	20 contact hours
CMED6200	Introduction to Epidemiology	165 students (2013)	20 contact hours

I have also contributed to the MOOC on [Epidemics](#). In previous years I have taught other components of postgraduate statistics and epidemiology courses, and problem-based learning tutorials for the course Evidence Based Practice for year 1 and 2 undergraduate medical students.

## Short courses

2014	Surveillance of influenza-like illnesses, <i>Pasteur Institute of Ho Chi Minh City, 10-14 November, 2014. Course director.</i>
2013	Influenza Disease Burden Training Workshop, <i>Kunming, 31 July - 2 August, 2013. Course director.</i>
2012	Training for health economic evaluation on infectious disease vaccination, <i>Beijing, 17-19 December 2012.</i>
2011	International Influenza Technical Training Workshop, <i>Beijing, August 2-6, 2011.</i>
2011	WHO: Short Course on Mathematical Modeling and Influenza Vaccination Strategies, <i>HKU, Hong Kong, 14-16 June, 2011. Course director.</i>
2011	A Practical Short Course on Infectious Disease Modeling, <i>US CDC, Atlanta, 6-8 June, 2011.</i>
2010	A Practical Short Course on Mathematical Modeling of Infectious Diseases: Preparedness and Response for the 2009 Influenza Pandemic, <i>Hong Kong, 8-9 September, 2010. Course director.</i>

## Visiting fellow advisor

2011	Peter JIAO Yang (Dr Cheng Yu Tung Fellowship for 3 months from Peking Union Medical College) Cost effectiveness of H pylori screening strategies.
2010	Charlotte WARREN-GASH (MRC-funded visitor for 1 month from University College London) The association of influenza with cardiovascular mortality.
2008-09	Paul CHEUNG (Fulbright Scholar for 1 year from UCSF). Barriers to antiretroviral therapy in Chinese HIV patients.
2008	Jana KOVAR (MRC-funded visitor for 3 months from UCL). Symptoms and signs predictive of influenza virus infection.

## Postdoctoral mentorship

- 2013- XU Cuiling – Influenza virus epidemiology.  
Current position – Post-doctoral fellow in HKU School of Public Health.
- 2011- WU Peng – Transmission dynamics of infectious diseases in Hong Kong.  
Current position – Post-doctoral fellow in HKU School of Public Health.
- 2011-14 Guy FREEMAN – Statistical inference on longitudinal influenza antibody measurements.  
Current position – Business analyst at DemystData (Hong Kong).
- 2010-14 KWOK Kin On – Influenza transmission dynamics and social contact patterns.  
Current position – Scientific Officer in HKU School of Public Health.
- 2009-13 Irene WONG – Cost-effectiveness of cancer screening and treatment.  
Current position – Research Assistant Professor in HKU School of Public Health.
- 2006-09 Eric LAU – Infectious disease epidemiology and control.  
Current position – Assistant Professor in HKU School of Public Health.
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## Current Research Postgraduate Student supervision

- 2014- Elaine FENG Shuo (PhD; primary supervisor) – Influenza disease burden and vaccine effectiveness.
- 2014- Kathy LEUNG Sze Man (PhD; co-supervisor) – Influenza seroepidemiology.
- 2014- Minah PARK (PhD; co-supervisor) – Infectious disease epidemiology.
- 2013- Tim TSANG Kam Lun (PhD; primary supervisor) – Transmission dynamics of influenza viruses.
- 2013- Vivian WEI Wan In (part-time MPhil; primary supervisor) – Factors affecting risk of influenza virus infections in Hong Kong.
- 2013- YANG Bing Yi (PhD; co-supervisor) – Cost-effectiveness of pneumococcal vaccines and HiB vaccines in China.
- 2013- Eric LAI Tsz Chun (PhD; co-supervisor) – Chronic disease epidemiology.
- 2012- Nancy LEUNG Hiu Lan (PhD; primary supervisor) – Modes of influenza transmission.
- 2012- Zoe ZHONG Yi (PhD; co-supervisor) – Chronic disease epidemiology.
- 2011- Eugenie Maud BAUDON (PhD; primary supervisor) – Swine influenza surveillance in Vietnam.
- 2011- Ariel WEI Lan (PhD; primary supervisor) – Burden and epidemiology of respiratory viruses in Hong Kong.
- 2011- CAO Peihua (PhD; co-supervisor) – Statistical modelling of influenza disease burden.
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## Previous Research Postgraduate Student supervision

- 2012-14 Rita HOU Wei Wei (MPhil; co-supervisor) – Pubertal muscle mass and diabetes risks.  
Current position – Research Officer in China CDC.
- 2010-14 Jessica WONG Yuen Ting (PhD; primary supervisor) – Burden and severity of influenza viruses.  
Current position – Senior Research Assistant at HKU School of Public Health.
- 2010-14 Joey ZHOU Ying (PhD; primary supervisor) – Disease burden and epidemiology of influenza among vaccine target groups.  
Current position – Postdoctoral fellow at HKU Sau Po Centre on Aging.
- 2009-13 Horace CHOI Cheuk Wai (PhD; co-supervisor) – Modeling the potential impact of HPV vaccination on Hong Kong’s cervical cancer burden.  
Current position – Senior Research Assistant at HKU School of Public Health.
- 2012-13 Ying ZHANG (PhD; Georgetown University, committee member) – Multivariate models for influenza surveillance and prediction.  
Current position – Research Assistant at Georgetown University.
- 2009-13 Brendan KLICK (PhD; primary supervisor) – Design and analysis of household studies of influenza.  
Current position – Senior Biostatistician at Quintiles, Durham, NC.
- 2010-12 Kathy LEUNG Sze Man (MPhil; co-supervisor) – Characterizing transmission dynamics and severity of 2009 H1N1 pandemic influenza in Hong Kong.  
Current position – PhD student at HKU School of Public Health.
- 2008-12 Lincoln LAU Lee Hang (PhD; primary supervisor) – Influenza virus shedding and transmission in households.  
Current position – Postdoctoral Fellow at The Institute for Global Health Innovation & Equity, The University of Toronto.
- 2008-12 Sophia NG (PhD; primary supervisor) – The effectiveness of vaccines and antivirals for control of influenza.  
**HKU Outstanding Research Postgraduate Student Award 2012-13.**  
Current position – Postdoctoral Research Associate at the School of Public Health, University of Michigan.
- 2007-12 Calvin CHENG Ka Yeung (PhD; primary supervisor). – Diagnosis and surveillance of human influenza virus infection.  
Current position – Postdoctoral Fellow at Department of Nursing, Hong Kong PolyU.
- 2007-11 Caroline GAO Xiaolei (PhD; co-supervisor) – Relative effectiveness of ventilation in community indoor environments for controlling infection.  
Current position – Research Associate at Turning Point, Melbourne, Australia.
- 2009-11 Max LAU Siu Yin (MPhil; primary supervisor) – Transmission dynamics of influenza in households.  
Current position – Postdoctoral Fellow at Princeton University.

- 2008-11 LIAO Quiyan (PhD; co-supervisor) – Modelling public adoption of health protective behaviours against novel respiratory infectious diseases in Hong Kong: the avian influenza A/H5N1 and the 2009 pandemic influenza A/H1N1s.  
Current position – Post-doctoral Fellow at HKU School of Public Health.
- 2006-10 WU Peng (PhD; supervisor) – Tuberculosis epidemiology and control.  
Current position – Post-doctoral Fellow at HKU School of Public Health.
- 2006-10 Roger CHUNG Yat Nork (PhD; co-supervisor) – Long-term health care financing.  
Current position – Research Assistant Professor at CUHK School of Public Health.
- 2004-09 Irene WONG Oi Ling (part-time PhD; primary supervisor from 2008-09) – Understanding and evaluating population preventive strategies for breast cancer using statistical and decision analytic models.  
Current position – Research Assistant Professor at HKU School of Public Health.

## Publications

My “h-Index” was 30 on 1 July 2015. In other words, I have published 30 papers each of which have at least 30 citations (Scopus). My publications have received more than 3400 citations to date (Scopus).

## Book chapters

- 2015 1. Seto WH, **Cowling BJ**. Role of hand hygiene in respiratory diseases including influenza. In Allegranzi B, Boyce J (Eds), *Hand Hygiene*. Wiley-Blackwell Health Sciences, 2015.
- 2014 2. Monto AS, **Cowling BJ**, Peiris JSM. Chapter 10: Coronaviruses. In Kaslow RA, Stanberry LR and LeDuc JW (Eds), *Viral Infections in Humans: Epidemiology and Control (5th edition)*. New York: Springer, 2014.
- 2010 3. **Cowling BJ**, Riley S, Seto WH, Leung GM. Chapter 16: Nosocomial transmission and control of SARS. In Ayres J, Harrison RM, Nichols G, Maynard R (Eds), *Environmental Medicine*. London: Hodder Arnold, 2010. pp 205-12.

## Major contributions to peer-reviewed articles (first, senior, corresponding (\*), joint first or joint senior author (†))

- 2015 4. **Cowling BJ**, Park M, Fang VJ, Wu P, Leung GM, Wu JT. Preliminary epidemiological assessment of MERS-CoV outbreak in South Korea, May to June 2015. *Eurosurveillance*, 2015;20(25):pii=21163.  
[IF 5.7 (2014), rank 6/78 infectious diseases]
- 2015 5. Xu C, Perera RA, Chan YH, Fang VJ, Ng S, Ip DK, Kam AM, Leung GM, Peiris JS, **Cowling BJ**. Determinants of serum 25-hydroxyvitamin D in Hong Kong. *British Journal of Nutrition*, 2015; 114, 144-51.
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