Alex R Cook

UK national Male

Contact details

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Employment history

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2018-now	Vice Dean (Research)	Saw Swee Hock School of Public Health, National University of Singapore and National University Health System
2018–now	Domain Leader	Biostatistics and Modelling Domain, Saw Swee Hock School of Public Health, National University of Singapore and National University Health System
2015–now	Associate Professor	Biostatistics and Modelling Domain, Saw Swee Hock School of Public Health, National University of Singapore and National University Health System
2015-now	Associate Professor	Department of Statistics and Applied Probability,
2015-110W	Associate Floressor	National University of Singapore
2015-now	Associate Professor	Program in Health Services and Systems Research,
2020 1.017	7.05001410 7.70705501	Duke-NUS Graduate Medical School Singapore
2012-now	Visiting scientific	Communicable Disease Centre,
	consultant	Tan Tock Seng Hospital, Singapore
2015-2016	Associate Professor	Science Division, Yale-NUS College,
		National University of Singapore
2013-2015	Assistant Professor	Science Division, Yale-NUS College,
		National University of Singapore
2011–2015	Assistant Professor	Biostatistics Domain, Infectious Disease Programme, and Centre for Infectious Disease Epidemiology and Research, Saw Swee Hock School of Public Health,
		National University of Singapore and National University Health System
2011–2015	Assistant Professor	Program in Health Services and Systems Research,
		Duke-NUS Graduate Medical School Singapore
2008–2015	Assistant Professor	Department of Statistics and Applied Probability,
		National University of Singapore
2007–2008	Visiting scholar	Department of Plant Science,
		University of Cambridge, UK
2005–2008	Post-doctoral Research Associate	Department of Actuarial Mathematics and Statistics, Heriot- Watt University, UK

Education

1998–2002	BSc (hons) 1st class in	Heriot-Watt University, Edinburgh, UK
	Statistics	
2002-2005	PhD in Statistics	Degree issued by Heriot-Watt University for research
		conducted at Biomathematics and Statistics Scotland

Grants awarded

Role	Quantum	Funder	Period	Title of research
PI	\$326 964	HSR	2017–9	Optimising influenza vaccination uptake and timing among the
				elderly in Singapore: a modelling study
CoPI	\$7 000 000	NMRC	2017–21	Singapore Population HEalth ImpRovement Centre (SPHERiC)
Co-I	\$5 000 000	NMRC	2017-21	Collaborative Solutions Targeting Antimicrobial Resistance
				Threats in Health Systems (CoSTAR-HS)
PI	\$200 000	HSR	2017-9	Tuberculosis in the resident and migrant population in
				Singapore: a mixed-method study
PΙ	\$642 000	CDPHRG	2014-6	Impact and cost-effectiveness of respiratory disease pandemic
				intervention in Singapore
PI	\$200 000	HSR	2013-5	Risk factors and control of hand, foot and mouth disease in
	•			childcare centres in Singapore
PΙ	\$1 300 000	MinDef	2013-6	Project MODUS
PI	\$180 000	MOE tier 1	2013-6	Statistical methods for Seroepidemiological Studies
PI	\$109 000	NIHA, GAI,	2009–11	Developing simulation-based parametrisation methods for
	•	NUS		models of sexually transmitted infection: making policy
		1103		recommendations evidence-based
Co-I	\$426 000	NMRC H1N1	2010–2	Optimising local management of global pandemics a
	•			modeling approach
PI	\$180 000	NUS	2009–10	Start up grant
Co-I	\$180 000	MOE tier 1	2013-6	Formative research and pilot of intervention study for men-
	•			who-have-sex-with-men

Other funded projects

Funder	Period	Title and role
MinDef	2011–7	Centre for Infectious Disease Modelling and Research An academic member of CIDER. I lead most of the modelling and analytic work done by CIDER, in particular models of outbreaks in camps, of interventions, and analysis of respiratory pathogen data.
МОН	2011–	Population Health Metrics and Analytics I lead the modeling and analytic work of PHMA. We are forecasting diabetes and hypertension prevalence, modeling breast cancer screening, hospital admissions, and developing both temporal and spatial individual-based models of the population.
NEA	2012–	Determination of Risk Factors that Impact Dengue in Singapore and Development of a Predictive Model I advise the EHI biostatistics team on analytics.

Research team (past and present)

	Name	Role	Next destination (ex-lab members)
2010–12	Roman Carrasco	Postdoc	Assistant Professor, NUS
2012	Tan Chong Yew	RA	MD Program, Duke-NUS
2012	Elizabeth Chong	RA	Postdoc, Emory
2012-2013	Teo Tjun Kiat	RA*	Completing DPhil at Oxford

2013 Ho Peh Joo RA PhD programme at SSHSPH 2012–14 Jin Jing RA* RA, Tan Tock Seng Hospital						
2012 17 July 118 IVA IVA, Tall Tock Selig Hospital						
2014–15 Tarek Soliman Postdoc Economist, Manaaki Whenu	ıa Landcare					
Research, New Zealand						
2012–15 Sourav Das Postdoc Postdoc, Bristol						
2014 Ning Yilin RA RA, SSHSPH						
2012–2015 Shi Yuan ¹ Postdoc Postdoc, Singapore Eye Rese	earch					
Institute						
2013–2015 Zheng Xiaohui RA Operations research, Port Se	ervices					
Authority						
2015 Cindy Lim RA PhD programme at SSHSPH						
2015 Gao Zheng RA PhD programme at Michigan	n					
2014–2015 Nguyen Thi Postdoc Set up business, Australia						
2014–2016 Joel Koo RA PhD programme, maths, NU	JS					
2015–2016 Hanh La Postdoc Senior Lecturer, SSHSPH						
2015–2016 Jason Yin ² RA RA, Yoong lab, SSHSPH						
2012–2016 Lilac Liu ¹ RA (Travelling the world!)						
2013–2016 Gibson Gay ² RA Analyst, Biomedical tech cor	mpany					
2012–2016 Kristin Tan ² RA Health economist, pharma of						
2016 Jenny Yang Jie Postdoc Assistant Professor, Univers						
Nottingham	•					
2012–2016 Zhao Xiahong RA Biostatistician, Kantar Healtl	h					
2012–2016 Phan Phuong Thao RA* Biostatistician, MOH New So						
2014–2017 Soh Kee Pang RA* Buddhist monk						
2014–2017 Arun Gunachandran RA Research associate at SSHSP	PH					
2015–2017 Chao Fengqing RA Postdoc, Lee Kuan Yew Scho	ool of					
Public Policy, NUS						
2013–2017 Pang Long RA Research assistant at SSHSP	'H					
2016–2017 Foo Jie Ming ² RA MPH programme at Aberde	en Robert					
Gordon						
2013–now Chen Yirong RA Biostatistician, Kantar Healt	h					
2014–now Kiesha Prem RA						
2014–now Alex 'Junior' Soh RA						
2015–now Tan Ken Wei RA*						
2016–now Hong Yueheng ² RA						
2017–now Yue Mu Postdoc						
2018–now Bo Dickens Postdoc						
2018–now Mao Yinan RA						
2018–now Sun Haoyang RA						
2018–now Lean Yinai RA						
2018–now Yang Qianyu RA						
RA: Research assistant; RA*: Research Associate						
1: EHI staff; 2: co-supervised with Lim Wei-Yen or Rob van Dam						

Students supervised

Year	Student	Degree	Thesis/project title
2008-9	Zheng Xiaohui	HYP	Hierarchical modelling of epidemic outbreaks

Leong Shi Ern HYP Bringing Snow to Zimbabwe 2010–1 Shanice Teo HYP The communicability of graphical alternatives to tabular displays of simulation studies Abigail Tan HYP Does adding a hidden Markov state improve the short term predictive ability of autoregressive models of dengue in Singapore? Tan Yin Ren HYP Analysis of the association between historical influenza outbreaks and climatic factors in Singapore Ng Wei Ting HYP Optimal design of studies of infectious disease intervention efficacy		Lee Huey Chyi	HYP	The use of particle filters for infectious disease inference
2010–10 Cindy Lim Leong Shi Ern HYP Bringing Snow to Zimbabwe 2010–11 Shanice Teo HYP The communicability of graphical alternatives to tabular displays of simulation studies Abigail Tan HYP Does adding a hidden Markov state improve the short term predictive ability of autoregressive models of dengue in Singapore? Tan Yin Ren HYP Analysis of the association between historical influenza outbreaks and climatic factors in Singapore Optimal design of studies of infectious disease intervention efficacy 2011–2 Kristin Tan HYP Optimising breast cancer screening programmes in Singapore Zhao Xiahong HYP A weather driven model of the life cycle of Aedes aegypti in Singapore Marie Ong HYP Optimil control of hand, foot and mouth disease in pre-school centres in Singapore Marie Ong HYP Personalising Empiric Antibiotic Recommendations for Sepsis Ow-Yang Zhi Jun HYP Personalising Empiric Antibiotic Recommendations for Sepsis Ow-Yang Zhi Jun HYP Quantifying the Contribution of Socio-Demographics and Contact Patterns to Reproductive Numbers and Transmission Li Mo HYP Where Do Men Who Have Sex With Men Meet Other Men Who Have Sex With Men? Penny Goh HYP Unproving the Information Content of Influenza Seroepidemiological Studies Ning Yilin HYP Evolution of Influenza Antibodies Ning Yilin HYP Evolution of Influenza Antibodies Ning Ruirui HYP Long Term Effects of Preschool Closure During Hand, Foot and Mouth Disease Outbreaks: A Modelling Study Pan-Asian Infectious Disease Forecasting with LASSO 2013–6 Juliana ZY Ng HYP Difference in Quality of Care across Ward Classes Modelling Study Pan-Asian Infectious Disease Forecasting with LASSO 2016–6 Juliana ZY Ng HYP Difference in Quality of Care across Ward Classes Modelling Environmental Performance Indicators Analymical Contralateral mastectomy Namrata Hange MPH Intervention based office ergonomics project in SSHSPH office workers 2016–7 Andy Ng HYP Estimating Spatial Location and Paths using Portable and Geo-referenced RFID tags Developing an Algorithm to Detect Potential Outbrea		Joseph Lee	HYP	Inference for stochastic epidemic models using moment
Leong Shi Ern HYP Bringing Snow to Zimbabwe 2010–1 Shanice Teo HYP The communicability of graphical alternatives to tabular displays of simulation studies Abigail Tan HYP Does adding a hidden Markov state improve the short term predictive ability of autoregressive models of dengue in Singapore? Tan Yin Ren HYP Analysis of the association between historical influenza outbreaks and climatic factors in Singapore Ng Wei Ting HYP Optimal design of studies of infectious disease intervention efficacy 2011–2 Kristin Tan HYP Optimising breast cancer screening programmes in Singapore Zhao Xiahong HYP A weather driven model of the life cycle of Aedes aegypti in Singapore A weather driven model of the life cycle of Aedes aegypti in Singapore A weather driven model of the life cycle of Aedes aegypti in Singapore Optimal control of hand, foot and mouth disease in pre-school centres in Singapore 2012–3 Ben Ten HYP Developing A Daily Dengue Haemorrhagic Fever Calculator Personalising Empiric Antibiotic Recommendations for Sepsis 2013 Ow-Yang Zhi Jun HYP How do different graphical formats influence perception of differences between groups? 2013–4 Kiesha Prem HYP Quantifying the Contribution of Socio-Demographics and Contact Patterns to Reproductive Numbers and Transmission Where Do Men Who Have Sex With Men Meet Other Men Who Have Sex With Men? Penny Goh HYP Improving the Information Content of Influenza Seroepidemiological Studies Ning Yilin HYP Evolution of Influenza Antibodies Ning Yilin HYP Evolution of Influenza Antibodies Ning Yilin HYP The HIV Cascade of Care in Singapore: Where Does Dropout Occur? 2014–5 Jewel Low HYP Long Term Effects of Preschool Closure During Hand, Foot and Mouth Disease Outbreaks: A Modelling Study Pan-Asian Infectious Disease Forecasting with LASSO 2015–6 Juliana ZY Ng HYP Difference in Quality of Care across Ward Classes Ang Yukai RM Computer simulation to assess the feasibility of a randomised clinical trial on prophylactic contralateral mastectomy Namrata Hange MPH Intervent				closure approximations
2010–1 Shanice Teo HYP The communicability of graphical alternatives to tabular displays of simulation studies	2009-10	Cindy Lim	HYP	Modelling Within Host Viral Loads of Infectious Diseases
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	Chong Woon Han	RM	Nutritional Epidemiology and Health Economics
	Lim Chu Hsien	RM	Nutritional Epidemiology and Health Economics
	Xie Yihao	CPS	Constructing a Model for Mosquito Abundance in HDB
			Estates in Singapore Using Meteorological, Environmental
			and Socioeconomic Predictors
	Terrence Wong	MPH	Acceptance of dengue vaccines among adults to control
	_		dengue transmission
2017–8	Tiew Jia Ling	HYP	A simulation study of the population-level effects of
			interventions for hepatitis C infection
	Lin Zhijia	HYP	Bayesian Methods for Network Scale Up Approaches to
	-		estimate Hidden Population Sizes
	Sharon ED Quaye	CPS	TBD
	Mythili	MPH	Lived experiences, barriers and facilitators in coping with
	Nagaratnam		diabetes among women in the low and middle
			socioeconomic group in Chennai, India: a qualitative study
	Pream Raj s/o	MPH	Estimating the prevalence of hepatitis C among intravenous
	Sinnasamy		drug users and the size of this hidden population using a
	·		one-step capture-recapture method in Singapore
	Pek Pin Pin	MPH	Bystander interventions among out-of-hospital cardiac
			arrests before and after implementation of a residential
			public access defibrillation program
	Karthikayen s/o	MPH	A population-level study regarding health information
	Jayasundar		seeking behaviour and factors affecting uptake of the
			influenza and dengue vaccines
2008-9	Anandhi	MSc	Optimal design of Markov chain Monte Carlo sampling
	Raveendran		routines
2009-14	Zheng Xiaohui	PhD	Hierarchical modelling for infectious diseases
2010–15	Teo Guo Ci	PhD	Estimation of large-scale cross-covariance matrix with group
			information
2009–10	Lee Huey Chyi	MSc	Evaluation of real-time methods for epidemic forecasting
2013-14	Cyrille Brun	MSc	Modeling deforestation in Indonesia
2015–17	Chao Fengqing	PhD	Bayesian methods for estimating global health indicators
2013-18	Koh Wee Ming	PhD	The epidemiology and control of hand, foot and mouth
			disease
2014–18	Zhao Xiahong	PhD	Statistical modelling of upper respiratory tract infections
2014-	Chen Yirong	PhD	
2015-	Kiesha Prem	PhD	
2015-	Cindy Lim	PhD	
2017-	Tan Ken Wei	PhD	
2018-	Sun Haoyang	PhD	
2018-	Mao Yinan	PhD	

HYP = honour year project, for bachelor of science with honours. CPS = Capstone project, and RM = research module, both for bachelor of science or arts with honours at Yale-NUS. MPH = masters in public health practicum project.

Publication list

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- 4. Chen Y, Ong JHY, Rajarethinam J, Yap G, Ng LC, Cook AR. Neighbourhood level real-time forecasting of dengue cases in tropical urban Singapore. BMC Med. 2018 Aug 6;16(1):129.
- 5. Cook AR, Zhao X, Chen MIC, Finkelstein EA. Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment. BMJ Open. 2018 Feb 1;8(2):e017355.
- 6. Ong J, Liu X, Rajarethinam J, Kok SY, Liang S, Tang CS, et al. Mapping dengue risk in Singapore using Random Forest. PLoS Negl Trop Dis. 2018 Jun 18;12(6):e0006587.
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- 9. Choi E, Cook AR, Chandran NS. Hidradenitis Suppurativa: An Asian Perspective from a Singaporean Institute. Skin Appendage Disord [Internet]. 2018 Jan 26 [cited 2018 Feb 26];(0). Available from: http://www.karger.com/Article/FullText/481836
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- 11. Ho PJ, Hartman M, Gernaat SAM, Cook AR, Lee SC, Hupkens L, et al. Associations between workability and patient-reported physical, psychological and social outcomes in breast cancer survivors: a cross-sectional study. Support Care Cancer. 2018 Mar 6;1–10.
- 12. Pang L, Harris PNA, Seiler RL, Ooi PL, Cutter J, Goh KT, et al. Melioidosis, Singapore, 2003–2014. Emerg Infect Dis. 2018 Jan;24(1):140–3.
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- 14. Jiang L, Ng HL, Ho HJ, Leo YS, Prem K, Cook AR, et al. Contacts of healthcare workers, patients and visitors in general wards in Singapore. Epidemiol Infect. 2017 Oct;145(14):3085–95.
- 15. Cook AR, Hartman M, Luo N, Sng J, Fong NP, Lim WY, et al. Using peer review to distribute group work marks equitably between medical students. BMC Med Educ. 2017 Sep 20;17:172.
- 16. Prem K, Cook AR, Jit M. Projecting social contact matrices in 152 countries using contact surveys and demographic data. PLOS Comput Biol. 2017 Sep 12;13(9):e1005697.
- 17. Zhao X, Ning Y, Chen MI-C, Cook AR. Individual and population trajectories of influenza antibody titers over multiple seasons in tropical Singapore. Am J Epidemiol. 2018 Jan 1;187(1):135–43.
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- 19. Zhao X, Siegel K, Chen MI, Cook AR. Rethinking thresholds for serological evidence of influenza virus infection. Influenza Other Respir Viruses. 2017;11(03):202–10.
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- 21. Das S, Cook AR, Wah W, Win KMK, Chee CBE, Wang YT, et al. Spatial dynamics of TB within a highly urbanised Asian metropolis using point patterns. Sci Rep. 2017;7(1):36.
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Media coverage

Year	Article
2009	Sunday Times
2009	On our realtime, online influenza forecast
2010	Straits Times, My Paper, Lianhe Zaobao
	On our NEJM paper on antiviral ring prophylaxis
	Reuters, Agence France-Presse, and 20 000 news outlets including USA Today,
2011	Times of India, Sky News and France 24
	On our J Roy Soc Interface article on the affordability of influenza antivirals
	Straits Times, Lianhe Zaobao, Today
2012	Articles on our diabetes forecasts presented at the First Singapore International
	Conference on Public Health
	New Scientist
2013	Op Ed written by Carrasco, Coker and myself, on our DALY market proposal for
	global health
	Lianhe Zaobao
2014	Article on the dengue forecast created by myself and the team and the
	Environmental Health Institute
	Today
2015	Article on our research on TB incidence attributes the rise to ageing population
	(true), more foreigners (false)
2016	It Figures, Channel News Asia
	TV episode on 'sugar high'
	Straits Times
2016	Op Ed on the zika outbreak: Need for mosquito control and public health
	education
2018	Straits Times
	Study on public acceptance of steps to curb outbreaks

Teaching

AY	Sem	Class	CH/E	Enrollment
2008/9	1	ST3242 Introduction to Survival Analysis	50	25
2008/9	2	ST2238 Introductory Biostatistics	50	32
2009/10	1	ST2238 Introductory Biostatistics	50	358
2009/10	2	Freshman seminar: Game theory	26	14
2009/10	2	Freshman seminar: Randomness in scientific thinking	26	15
2010/1	1	ST5219 Bayesian Hierarchical Modelling	39	39
2010/1	2	ST3242 Introduction to Survival Analysis	50	22
2011/2	1	Freshman seminar: Good science, junk science and statistics	26	15
2011/2	1	Freshman seminar: Randomness in scientific thinking	26	15
2011/2	2	Statistics co-advisor: two community health projects	24	~80
2012/3	1	Bayesian Statistics	61	33
2012/3	2	Advanced Biostatistics	14	5
2012/3	2	Statistics advisor: community health project	12	~40
2012/3	2	BL5233: Modelling in environmental biology with R	2	23
2013/4	1	Biostatistics for Public Health	16	8

2013/4	1	Public Health in Action (co-facilitator)	*	140
2013/4	2	Advanced Biostatistics	14	6
2013/4	2	Quantitative Reasoning (co-teaching a double section)	60	38
2013/4	2	HIV/AIDS: from microbes to nations	2	19
2014/5	1	Public Health in Action	6	400
2014/5	2	Advanced Biostatistics	14	5
2014/5	2	Public Health in Action	6	400
2014/5	2	Statistical Inference	52	3
2015/6	1	Public Health in Action	6	~400
2015/6	1	Quantitative Epidemiologic Methods	16	55
2015/6	2	Public Health in Action	12	~400
2015/6	2	Advanced Biostatistics	12	10
2015/6	2	Statistical Inference	52	2
2015/6	2	Experimental Design and Statistics	24	17
2016/7	1	Quantitative Epidemiologic Methods	16	~60
2016/7	1	Public Health in Action	15	~600
2016/7	2	Main supervisor: community health project	50	35
2017/8	1	Public Health Research Methods	16	~100
2017/8	1	Public Health in Action	15	~600
2017/8	2	Main supervisor: community health project	50	35
2017/8	2	Advanced Biostatistics	14	~10

Teaching awards

Year	Award
2009	Faculty (of Science) Teaching Excellence Award, NUS
2011	Faculty (of Science) Teaching Excellence Award, NUS
2013	Inspiring Research Mentor Award, NUS High School of Mathematics and Science
2014	Faculty (Saw Swee Hock School of Public Health) Teaching Excellence Award, NUS
2014	Annual Teaching Excellence Award, NUS

CH/E: contact hours or equivalent. * no natural contact hour equivalent: in class for 39h.