
CURRICULUM VITAE

(Updated on 3rd December 2024)

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Synopsis

I am a published medical researcher with 20 years of clinical practice experience and 10 years of engineering work experience to advance digital health solutions for cardiovascular care. With a PhD in Medicine (University of Sydney), a Medical Degree (University of Queensland) and a Master of Science and Engineering Degree (National University of Singapore), I focus on leveraging digital health technology to enhance the early diagnosis and management of cardiovascular conditions. My research has proven the feasibility and effectiveness of remote health innovations in screening for atrial fibrillation, underscoring my commitment to making heart health services accessible in real-world settings.

ACADEMIC QUALIFICATIONS

- I have completed a Doctor of Philosophy (PhD) at Westmead Applied Research Centre, Faculty of Medicine and Health, the University of Sydney. My PhD thesis is “Atrial Fibrillation Screening in the Community: An Integrated Continual Care Approach.”

Multi-disciplinary supervisory team: Professor Clara K Chow (principal supervisor, cardiologist & Professor of Medicine), Professor Tim Usherwood (co-supervisor, Professor of General Practice), Dr Tu N Nguyen (co-supervisor, geriatrician & research fellow), and Dr Cindy Kok (research fellow).

My PhD synopsis: Atrial fibrillation (AF) affects 59.7 million people worldwide. Early AF diagnosis allows patients to improve their risks for stroke, heart failure, and dementia. I developed, implemented, and evaluated a community AF screening system integrated as a continual care system that interacted with (i.e., communicated, connected, and supported) the existing healthcare system.

Impacts of my PhD studies

The protocol of the RCT was published.

<https://www.researchprotocols.org/2022/2/e34778/metrics>

Media publications include an introduction video and a full interview regarding the study, are available freely on the following websites:

One-minute introduction video:

“SciComm Teaser: Patient-Led Mass Screening for Atrial Fibrillation in Seniors Using Handheld ECG”, JMIR, 12th April 2022.

<https://www.youtube.com/watch?v=l3PeFOS7awE>

Nine-minute interview: “Patient-Led Mass Screening for Atrial Fibrillation in the Older Population Using Handheld Electrocardiographic Devices Integrated With a Clinician-Coordinated Remote Central Monitoring System: Protocol for a Randomized Controlled Trial and Process Evaluation”, JMIR, 12th April 2022.

<https://www.youtube.com/watch?v=KH2KR-qKv6M>

The RCT was mentioned by other researchers on LinkedIn (accessed on 23rd Mar 2023): https://www.linkedin.com/posts/professoradrianrabe_read-more-largest-decentralised-study-of-activity-7044448874979061761-uyB4/

I performed a systematic review and meta-analysis on the diagnostic accuracy of handheld ECG devices. The publication is highlighted in a four-minute video: “Diagnostic accuracy of handheld electrocardiogram devices in detecting atrial fibrillation in adults”, BMJ Heart, 12th May 2020.

<https://www.youtube.com/watch?v=KPwi6xALxng>

Conference presentations

I presented the results of my PhD project (Mass Atrial Fibrillation Screening Trial) at the following conferences:

- The Cardiac Society of Australia and New Zealand (CSANZ) Conference on 1st- 4th August 2024 in Perth, Australia.
- The Cardiac Society of Australia and New Zealand (CSANZ) Conference on 4th-6th August 2023 in Adelaide, Australia.
- The European Society of Cardiology (ESC) Conference on 25th – 28th August 2023 in Amsterdam, the Netherlands.

Funding, grants, and scholarship

- **Collaborative Research Grant awarded by Western Sydney University (2024)** (AUD\$17,000) – to establish a health informatics infrastructure that integrates community research findings into a primary care software management system to enable continuity of care, evaluation of patient outcomes and impacts of community research.
- **Industrial Seed Funding awarded by the University of Sydney (2021)** (AUD\$10,000)
 - completed and published a usability study of a handheld 12-lead ECG device: Wong KC, Thiagalingam A, Kumar S, Marschner S, Kunwar R, Bailey J, Kok C, Usherwood T, Chow CK.
 - User Perceptions and Experiences of a Handheld 12-Lead Electrocardiographic Device in a Clinical Setting: Usability Evaluation JMIR Cardio 2021;5(2):e21186 (<https://cardio.jmir.org/2021/2/e21186/>)
- **Early Career Research Grant awarded by Western Sydney University (2013)** (AUD\$8,000). I completed research titled “[Antibiotic use for *Vibrio* infections: important insights from surveillance data](#)”. The project involved analysing a large surveillance dataset of 8056 patients over 21 years provided by the United States Centers for Disease Control and Prevention (CDC). The research paper was published in an international journal and cited on the USA CDC website: <https://www.cdc.gov/vibrio/publications.html>
- **Research scholarship awarded by Dartmouth Medical School, Dartmouth College, United States of America (2002)**
I participated in the research titled “Detection of exercise-induced ischemia by measurement of BNP (B-type Natriuretic Peptide).

Other academic qualifications:

- **University of Oxford – Effective Online Tutoring** [Certificate of Completion] (2014)

- **Fellow of the Royal Australian College of General Practitioners (FRACGP)**

RACGP Expert Committee – Practice Technology & Management (2018-2021)

I have assisted in the following:

- ☐ providing informed advice on digital developments, information management, technology standards and other areas that impact the future operation of Australian general practice
- ☐ providing input into position papers and RACGP responses to submissions related to digital technology in general practice, practice management and emergency response
- ☐ advising on business tools and resources to support general practitioners and general practice and
- ☐ supporting and promoting the uptake of technology in general practice and co-hosted telehealth webinars.

- **Bachelor of Medicine and Bachelor of Surgery (MBBS)**

The University of Queensland, Australia (2005)

- **Master of Science (MSc)**

National University of Singapore (1999)

- **Bachelor of Mechanical Engineering (BE)**

National University of Singapore (1992)

- **Certificate of Competence in Writing**

The Writers Bureau, Manchester, United Kingdom

Successful completion of the writing course with several publications (2001)

PROFESSIONAL EXPERIENCES – Clinical Experiences

- **General Practitioner (GP)** – practice family medicine (15 years: 2008 - 2024)

*Rural General Practice: George Street Medical Practice, 115 George Street, Bathurst, NSW, Australia.

* Completed Australian General Practice Training Rural Pathway (Royal Australian College of General Practice): General practice experiences, including placements at Broken Hill and Dubbo, NSW, Australia.

- **Hospital experiences:** Medical Officer at The Canberra Hospital and Goulburn Base Hospital (Australia) (16th January 2006 - 21st January 2007); Westmead Hospital, Blacktown Hospital, Auburn Hospital, Bathurst Base Hospital (NSW, Australia) (22nd January 2007 – 20th July 2008).

- **Senior Lecturer in General Practice** at Bathurst Rural Clinical School, School of Medicine, Western Sydney University (2015 - present); Conjoint Clinical Senior Lecturer at School of Rural Health, Sydney Medical School, the University of Sydney (2011 - present)
 - Teach family medicine/ general practice/community medicine
 - Design and deliver medical curriculum
 - Participated in the discussion on the curriculum for “**Charles Sturt University – Western Sydney University Joint Program in Medicine**”
 - **Received an “Early Career Research Grant” from Western Sydney University** in 2013. I completed research titled “[Antibiotic use for Vibrio infections: important insights from surveillance data](https://www.cdc.gov/vibrio/publications.html). The project involved managing and analysing a large surveillance dataset of 8056 patients over 21 years provided by the United States Centers for Disease Control and Prevention (CDC). The research paper was published in an international journal and cited on the USA CDC website: <https://www.cdc.gov/vibrio/publications.html>
- **Director of Prevocational Education and Training (DPET) and Medical Educator, Beyond Medical Education (Regional Training Provider, NSW)** (Jan 2011 to Dec 2014).
 - Established a training curriculum for doctors-in-training, i.e. The Prevocational General Practice Placements Program (PGPPP)
 - Delivered training curriculum, e.g., conducted workshops, tutorials and forums
 - Performed evaluation of the effectiveness of the training program
 - Implemented improvement on the training program
- **GP Academic Registrar in the University of Sydney** (1st Jan 2010 – 17th Jan 2011).
 - I completed and published a research project titled “The Australian Type 2 Diabetes Risk Assessment Tool (AUSDRISK) – Application in General Practice” *
 - I completed and published an editorial paper titled “Using an Ishikawa Diagram as a tool to assist memory and retrieval of relevant medical cases from the medical literature”.

<http://jmedicalcasereports.biomedcentral.com/articles/10.1186/1752-1947-5-120>
- **Clinical /Medical Research Associate (2004 - 2006), Centre for Chronic Disease, University of Queensland, Royal Brisbane Hospital, Australia**
 - I completed a research project entitled ‘Prevalence of diabetes mellitus of Chinese Populations in Mainland China, Hong Kong, and Taiwan’. The paper was published in the Journal of Diabetes Research and Clinical Practice*, the official journal of the International Diabetes Federation.

- In addition, I also published a journal paper titled ‘Importance of native language in a population-based health survey among ethnic Chinese in Australia’ in the Australian New Zealand Journal of Public Health. *

PROFESSIONAL EXPERIENCES – Engineering and Management Experiences

- **Engineering Consultant (1998-2001), Neville-Clarke (Singapore and Malaysia)**
 - I managed multiple projects for multinational organisations and helped the organisations certified to ISO 9000 and ISO 14000 International Standards
 - I provided training and consultation for the Design and Process Potential Failure Mode and Effects Analysis (FMEA), Measurement System Analysis (MSA), Design of Experiments (DOE), and Statistical Process Control (SPC)
- **Engineer and Section Manager (1993-1998), SGS-THOMSON Microelectronics (Singapore)**
 - Process management and improvement using statistical process control (SPC) & Design of Experiment (DOE)
 - Presentations at conferences in France: Application of statistics in process control (1994 & 1996)

PROFESSIONAL DEVELOPMENT

- **Dartmouth Medical School, Dartmouth College[#]
Dartmouth-Hitchcock Medical Centre, New Hampshire 03756, USA.**
 - * **Research Scholar** (2002)
 - Project Title: Detection of exercise-induced ischemia by measurement of BNP (B-type Natriuretic Peptide). This research project involved cardiologists and pathologists. I contributed to the publication as one of the co-authors. *
 - **Award of testimonies** from Professor Jerry Yeo (Professor of Pathology) and Dr Robert S Foote (Professor of Medicine), Dartmouth Medical School, Dept of Pathology & Cardiology, Dartmouth Hitchcock Medical Centre, New Hampshire 03756, USA. (Copies of the testimonies can be provided for verification purposes.)

Note: # Dartmouth College is one of the eight Ivy League Universities. The Ivy League was initially a sports league for elite colleges. Now, it has become associated with quality academics. Ivy League Universities include Harvard University, Dartmouth College, University of Pennsylvania, Princeton University, Yale University, Brown University, Columbia University, and Cornell University.

Note: * See publication list below.

PUBLICATIONS

- I have a good track record of publications with a h-index of 10, underlining the impact and reach of my work (<https://www.researchgate.net/profile/Kam-Cheong-Wong>)
- Associate Editor, Journal of Medical Case Report (2016-2021), <https://jmedicalcasereports.biomedcentral.com/>

First Author

1. **Wong KC**, Nguyen TN, Marschner S, Turnbull S, Indrawansa AB, White R, Burns MJ, Gopal V, Min H, Quintans D, von Huben A, Trankle SA, Usherwood T, Lindley RI, Kumar S, Chow CK. A randomised controlled implementation study integrating patient self-screening with a remote central monitoring system to screen community dwellers aged 75 years and older for atrial fibrillation. *Eur J Prev Cardiol*. 2024 Sep 25:zwae312. Epub ahead of print. PMID: 39319703. <https://doi.org/10.1093/eurjpc/zwae312>
2. **Wong KC**, Nguyen TN, Trankle SA, Usherwood T, Quintans D, Marschner S, Turnbull S, Indrawansa AB, White R, Burns MJ, Gopal V, Lindley RI, Kumar S, Chow CK. Implementing a remote self-screening programme for atrial fibrillation using digital health technology among community dwellers aged 75 years and older: a qualitative evaluation. *BMJ Open*. 2024 Oct 16;14(10):e088260. PMID: 39414304. <https://bmjopen.bmj.com/content/14/10/e088260>
3. **Wong KC**, Nguyen TN, Chow CK. Global Implementation and Evaluation of Atrial Fibrillation Screening Studies in the Past Two Decades: A Narrative Review. *Nature Portfolio Journals Cardiovascular Health* 1, 17 (2024). <https://doi.org/10.1038/s44325-024-00014-w>
4. **Wong, KC**, Trankle, SA, Quintans, D, Nguyen, TN, Usherwood, T, & Chow, C K. (2023). A Systematic Approach to Improving the Transparency of Interview Refinements and Data Sufficiency in Semi-Structured Interviews: An Illustration Using the Mass Atrial Fibrillation Screening Study. *International Journal of Qualitative Methods*, 22. <https://doi.org/10.1177/16094069231220773>
5. **Wong KC**, Nguyen TN, Marschner S, Turnbull S, Burns MJ, Ne JYA, Gopal V, Indrawansa AB, Trankle SA, Usherwood T, Kumar S, Lindley RI, Chow CK. Patient-Led Mass Screening for Atrial Fibrillation in the Older Population Using Handheld Electrocardiographic Devices Integrated with a Clinician-Coordinated Remote Central Monitoring System: Protocol for a Randomized Controlled Trial and Process Evaluation. *JMIR Res Protoc*. 2022 Feb 1;11(2): e34778. <https://www.researchprotocols.org/2022/2/e34778>
6. **Wong KC**, Thiagalingam A, Kumar S, Marschner S, Kunwar R, Bailey J, Kok C, Usherwood T, Chow CK. User Perceptions and Experiences of a Handheld 12-Lead Electrocardiographic Device in a Clinical Setting: Usability Evaluation. *JMIR Cardio*. 2021 Aug 26;5(2): e21186. <https://cardio.jmir.org/2021/2/e21186/>

7. **Wong KC**, Klimis H, Lowres N, von Huben A, Marschner S, Chow CK. Diagnostic accuracy of handheld electrocardiogram devices in detecting atrial fibrillation in adults in the community versus hospital settings: a systematic review and meta-analysis. *Heart*. 2020 Aug;106(16):1211-1217. doi: 10.1136/heartjnl-2020-316611. <https://heart.bmj.com/content/106/16/1211.long>
8. **Wong KC**, Kok C, Marschner S, Usherwood T, Chow CK. Screening for atrial fibrillation and other arrhythmias in primary care. *BMC Fam Pract*. 2020 May 6;21(1):79. doi: 10.1186/s12875-020-01151-8. PMID: 32375662; PMCID: PMC7201749. <https://bmcfampract.biomedcentral.com/articles/10.1186/s12875-020-01151-8>
9. **Wong KC**, Woo KZ, Woo KH, 2016. Book Chapter - Ishikawa Diagram. In *Quality Improvement in Behavioral Health* (pp. 119-132). Springer International Publishing. http://link.springer.com/chapter/10.1007/978-3-319-26209-3_9
10. **Wong KC** (2016). How to apply clinical cases and medical literature in the framework of a modified “failure mode and effects analysis” as a clinical reasoning tool—an illustration using the human biliary system. *Journal of Medical Case Reports*, 10(1), p.85. <http://jmedicalcasereports.biomedcentral.com/articles/10.1186/s13256-016-0850-6>
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12. **Wong KC**, Brown AM, Luscombe GM, Wong SJ, and Mendis K (2015). [Antibiotic use for *Vibrio* infections: important insights from surveillance data.](#) *BMC Inf Dis*. 2015 June 11; 15:226.
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15. **Wong KC** (2011) Just a sore throat? *Australian Family Physician*, 40 5: 293-294. https://www.researchgate.net/publication/51151362_Just_a_sore_throat
16. **Wong KC**, Anthony M Brown, and Stephen CH Li (2011) AUSDRISK - Application in general practice. *Australian Family Physician*, 40 7: 524-526. https://www.researchgate.net/publication/51481398_AUSDRISK_-_application_in_general_practice

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https://www.researchgate.net/publication/37619057_Statistics_Made_Simple_for_Healthcare_and_Social_Science_Professionals_and_Students
- The book was referenced by researchers at the Massachusetts Institute of Technology (MIT) in the USA in the journal paper "Uzuner O, Sibanda TC, Luo Y, Szolovits P. A de-identifier for medical discharge summaries. Artificial Intelligence in Medicine. 2008 Jan; 42(1):13-35."
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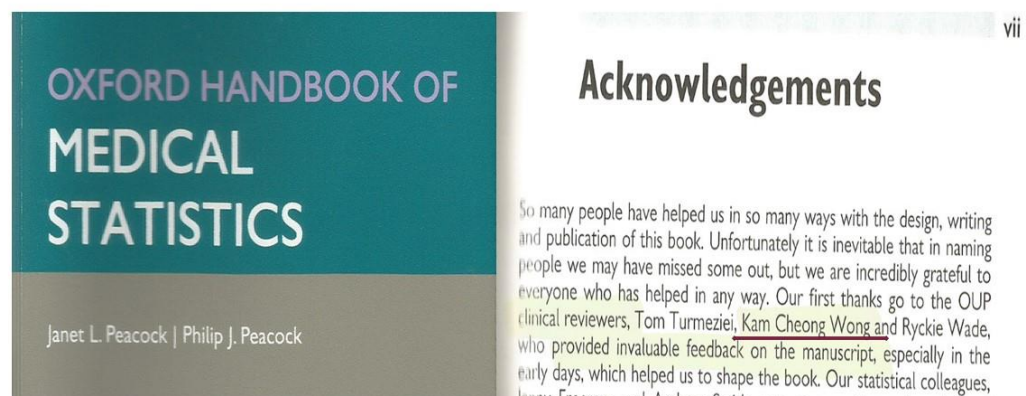
Co-author

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4. Hu J, **Wong KC**, Wang Z. Recruiting migrants for health research through social network sites: an online survey among Chinese migrants in Australia. *JMIR Res Protoc*. 2015 Apr 27;4(2): e46. <http://www.researchprotocols.org/2015/2/e46/>
5. KY Loh, CL Teng and **Wong KC** (2006). How to Analyse Your Research Data? Illustrations with Hands-On Exercises Using SPSS. *Malaysian Family Physician* 1(2&3):77-81.
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https://www.researchgate.net/publication/7582295_Factors_relating_to_adolescent_suicidal_behavior_A_cross-sectional_Malaysian_school_survey

STATUS OF PROFESSIONAL AUTHORITY

- **Reviewer for journals, including Technology & Innovation journals (eHealth, mHealth)**
<https://www.webofscience.com/wos/author/record/744050>
- **Oxford University Press**
 - Medical reviewer
 - March 2007: I reviewed a handbook proposal titled “**Oxford Handbook of Medical Statistics**” and provided suggestions for writing the handbook. My contribution was acknowledged (see below):



- June 2007: I reviewed the chapter “Diabetes” in the Oxford Handbook of Endocrinology and Diabetes
- July 2007: I evaluated a new book proposal titled “Oxford Handbook of Pulmonary Imaging.”
- In Nov 2008, I evaluated a proposal for a new Oxford book titled “Key Cases in Endocrinology”.
- I reviewed the following Oxford publications: Oxford Handbook of Practical Drug Therapy (1st edition, 2005), Oxford Handbook of General Practice (Oct 2005), and Oxford Handbook of Respiratory Medicine (1st edition, July 2005).

➤ **The Society of Authors, London, UK**

Member (Membership number: 00046060)

➤ **Royal Australian College of General Practitioners (RACGP)**

Fellow (Membership number: 577247)

REFEREES

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