

Prof. Kelvin KF Tsoi

Digital Epidemiologist

Associate Professor

RESEARCH FOCUS

My research interests focus on digital innovation in chronic disease management, including mobile and telecare application for hypertension management, technological implementation and social engagement for cognitive screening, artificial intelligent application on electronic health records. My work also includes the traditional epidemiology for evidence-based medicine and population cohort studies. Hypertension and cardiovascular diseases, cognitive impairment and dementia, pharmacological use for cancer prevention are the main areas of my research.

1. PRESENT APPOINTMENTS

Associate Professor The Jockey Club School of Public Health and Primary Care Faculty of Medicine, The Chinese University of Hong Kong (Role: Teacher & Researcher on Digital Health)	Nov 19 ~ present
Associate Professor (by Courtesy) Stanley Ho Big Data Decision Analytics Research Centre The Chinese University of Hong Kong (Role: Team Leader on an interdisciplinary team for Big Data Research)	Nov 19 ~ present
Associate Professor (by Courtesy) The Jockey Club Institute of Ageing The Chinese University of Hong Kong (Role: Technological advisor on Digital Ageing Projects)	Nov 15 ~ present
Visiting Associate Professor Lee Kong Chian School of Medicine Nanyang Technological University	Feb 22 ~ present

2. ACADEMIC ACTIVITIES

1. *President*, the International Society for Digital Health 2019-Present
2. *Organizing Committee Chairman*, the International Symposium on Digital Health 2019
3. *Associate Editor on Digital Health*, BMJ Innovations. 2017-Present
4. *Mini-Track Chair*, Big Data on Healthcare Application. the 51st Hawaii International Conference on System Sciences (HICSS). 2017-Present
5. *Programme Committee*, The 7th IEEE International Conference on Cloud Computing Technology and Science (CloudCom) 2015-Present
6. *Programme Committee, and Session Chair*, Hot Topic Track, Big Data Research in Healthcare, The 4th IEEE International Congress on Big Data (BigData Congress) 2015
7. *Scientific Committee and Organizing Committee*, International Symposium on Digital Health (ISDH). 2019
8. *Scientific Member*, The Hypertension Cardiovascular Outcome Prevention and Evidence in Asia (HOPE Asia) Network. 2020 - Present

3. UNIVERSITY SERVICES

1. Dean of Student, Wu Yee Sun (WYS) College, 2022-Present
2. Fellows of WYS College, 2017-Present
3. Associate Dean of Student, WYS College, 2019-2022
4. Chairperson of Sunny Sport Committee, WYS College, 2016-Present
5. Committee of Health and Spiritual Well-being Committee, WYS College, 2016-Present
6. Senate Committee on Physical Education, CUHK, 2016-Present

4. AWARDS

- *Bronze Medal, Geneva Inventions* - Dementia screening in 30 seconds with 1 sample drawing, 2021
- *Andrew P. Sage Best Transactions Paper Award*, IEEE Systems, Man, and Cybernetics Society, 2020
- *IBM Honorarium Award*, the 50th Hawaii International Conference on System Sciences, Hawaii 2017
- *The President's Prize for Best Paper Presentation*, the Annual Scientific Meeting, Hong Kong College of Community Medicine, Hong Kong, 2017

5. PUBLICATIONS

(Selected publications in Hypertension)

1. Bo Y, Kwok KO, Chung VC, Yu CP, **Tsoi KK**, Wong SY, Lee EK. Short-term reproducibility of ambulatory blood pressure measurements: a systematic review and meta-analysis of 35 observational studies. *J Clin Hypertens*. 2020;38(11):2095–2109.
2. Kario K, Hoshide S, Chia YC, Buranakitjaroen P, Siddique S, Shin J, Turana Y, Park S, **Tsoi K**, Chen CH, Cheng HM, Fujiwara T, Li Y, Van Minh H, Nagai M, Nailes J, Sison J, Soenarta AA, Sogunuru GP, Sukonthasarn A, Tay JC, Teo BW, Verma N, Wang TD, Zhang Y, Wang JG. Guidance on ambulatory blood pressure monitoring: A statement from the HOPE Asia Network. *J Clin Hypertens*. 2021;23(3):411–421.
3. Chia YC, Turana Y, Sukonthasarn A, Zhang Y, Shin J, Cheng HM, Tay JC, **Tsoi K**, Siddique S, Verma N, Buranakitjaroen P, Sogunuru GP, Nailes J, Van Minh H, Park S, Teo BW, Chen CH, Wang TD, Soenarta AA, Hoshide S, Wang JG, Kario K on behalf of the Hypertension Cardiovascular Outcome Prevention and Evidence (HOPE) Asia Network. Comparison of guidelines for the management of hypertension: Similarities and differences between international and Asian countries; perspectives from HOPE-Asia Network. *J Clin Hypertens*. 2021;23(3):422–434.
4. Wang TD, Lee CK, Chia YC, **Tsoi K**, Buranakitjaroen P, Chen CH, Cheng HM, Tay JC, Teo BW, Turana Y, Sogunuru GP, Wang JG, Kario K on behalf of the HOPE Asia Network. Hypertension and erectile dysfunction: The role of endovascular therapy in Asia. *J Clin Hypertens*. 2021;23(3):481–488.
5. Hoshide S, Kario K, Chia YC, Siddique S, Buranakitjaroen P, **Tsoi K**, Tay JC, Turana Y, Van Minh H, Park S, Soenarta AA, Sogunuru GP, Wang TD, Wang JG. Characteristics of hypertension in obstructive sleep apnea: An Asian experience. *J Clin Hypertens*. 2021;23(3):489–495.
6. Chan GC, Teo BW, Tay JC, Chen CH, Cheng HM, Wang TD, Turana Y, Kario K, Chia YC, **Tsoi K**, Sogunuru GP, Nailes J on behalf of the HOPE Asia Network. Hypertension in a multi-ethnic Asian population of Singapore. *J Clin Hypertens*. 2021;23(3):522–528.
7. Chang HC, Cheng HM, Chen CH, Wang TD, Soenarta AA, Turana Y, Teo BW, Tay JC, **Tsoi K**, Wang JG, Kario K. Dietary intervention for the management of hypertension in Asia. *J Clin Hypertens*. 2021;23(3):538–544.

8. Narita K, Hoshide S, **Tsoi K**, Siddique S, Shin J, Chia YC, Tay JC, Teo BW, Turana Y, Chen CH, Cheng HM, Sogunuru GP, Wang TD, Wang JG, Kario K. Disaster hypertension and cardiovascular events in disaster and COVID-19 pandemic. *J Clin Hypertens*. 2021;23(3):575–583.
9. Verma N, Rastogi S, Chia YC, Siddique S, Turana Y, Cheng HM, Sogunuru GP, Tay JC, Teo BW, Wang TD, **Tsoi KKF**, Kario K. Non-pharmacological management of hypertension. *J Clin Hypertens*. 2021;23(7):1275–1283.
10. Jia P, Lee HWY, Chan JWC, Yiu KKL, **Tsoi KKF**. Long-term blood pressure variability increases risks of dementia and cognitive decline: A meta-analysis of longitudinal studies. *Hypertension* 2021;78(4):996–1004.
11. Feng Q, Yang Z, May M, **Tsoi KK**, Ingle S, Lee EK, Wong SY, Kim JH. The role of body mass index in the association between dietary sodium intake and blood pressure: A mediation analysis with NHANES. *Nutrition, Metabolism and Cardiovascular Diseases*. 2021; 31(12):3335–3344.
12. Zhang Y, Miao H, Chia YC, Buranakitjaroen P, Siddique S, Shin J, Turana Y, Park S, **Tsoi K**, Chen CH, Cheng HM, Li Y, Van Minh H, Nagai M, Nailes J, Sison J, Soenarta AA, Sogunuru GP, Sukonthasarn A, Tay JC, Teo BW, Verma N, Wang TD, Hoshide S, Kario K, Wang J. Cardiovascular risk assessment tools in Asia. *J Clin Hypertens*. 2022;24(4):369–377.
13. Kario K, Chia YC, Siddique S, Turana Y, Li Y, Chen C, Nailes J, Huynh MV, Buranakitjaroen P, Chen H, Fujiwara T, Hoshide S, Nagai M, Park S, Shin J, Sison J, Soenarta AA, Sogunuru GP, Sukonthasarn A, Tay JC, Teo BW, **Tsoi K**, Verma N, Wang TD, Zhang Y, Wang JG. Seven-action approaches for the management of hypertension in Asia - The HOPE Asia network. *J Clin Hypertens (Greenwich)*. 2022;24(3): 213–223.
14. Jia P, Zhan N, Bat BKK, Feng Q, **Tsoi KKF**. The genetic architecture of blood pressure variability: A genome-wide association study of 9370 participants from UK Biobank. *J Clin Hypertens (Greenwich)*. 2022. DOI: [10.1111/jch.14552](https://doi.org/10.1111/jch.14552)