

Stanford

Pik Fang Kho

Postdoctoral Scholar, Cardiovascular Medicine

Bio

BIO

I obtained my PhD in genetic epidemiology at Queensland University of Technology (Australia), where my research was focused on using genetic and genomic approaches to identify risk factors for endometrial cancer. During my graduate studies, I gained experience in large-scale genetic association studies and leveraging the correlation between diseases in genetic studies to identify novel genetic variants associated with endometrial cancer. I also developed expertise in various statistical genetic approaches in multi-omics data, including fine-mapping and colocalization analyses, to prioritize candidate causal variants and genes. I also gained extensive experience in genetic causal inference analysis to infer causality between risk factors and health outcomes.

My research focus since moving to Stanford has been the identification of genetic and non-genetic determinants of cardiometabolic diseases. I am currently involved in projects including large-scale genetic association studies, multi-trait analysis with correlated traits, development and validation of polygenic risk scores, integrative analyses with multi-omics data, as well as Mendelian randomization analyses to advance our understanding of the genetic and environmental factors that contribute to cardiometabolic diseases.

HONORS AND AWARDS

- 2021 QUT Outstanding Doctoral Thesis Award, Queensland University of Technology (Australia) (2022)
- QIMR Berghofer PhD Top-up Scholarship, QIMR Berghofer Medical Research Institute, Australia (2018 - 2020)
- Biomed Link Travel Grant, University of Melbourne, Australia (2018)
- Australian Government Research Training Program (RTP) Scholarship, Australian Government (2017-2020)
- QIMR Berghofer Masters (Coursework) Scholarship, QIMR Berghofer Medical Research Institute, Australia (2015)

STANFORD ADVISORS

- Themistocles Assimes, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **CXCL12 regulates coronary artery dominance in diverse populations and links development to disease.** *medRxiv : the preprint server for health sciences*
Rios Coronado, P. E., Zanetti, D., Zhou, J., Naftaly, J. A., Prabala, P., Kho, P. F., Martínez Jaimes, A. M., Hilliard, A. T., Pyarajan, S., Dochtermann, D., Chang, K. M., Winn, V. D., Pa#ca, et al
2023
- **Proteomic analysis of 92 circulating proteins and their effects in cardiometabolic diseases.** *Clinical proteomics*
Carland, C., Png, G., Malarstig, A., Kho, P. F., Gustafsson, S., Michaelsson, K., Lind, L., Tsafantakis, E., Karaleftheri, M., Dedoussis, G., Ramisch, A., Macdonald-Dunlop, E., Klaric, et al
2023; 20 (1): 31
- **Contemporary Polygenic Scores of Low-Density Lipoprotein Cholesterol and Coronary Artery Disease Predict Coronary Atherosclerosis in Adolescents and Young Adults.** *Circulation. Genomic and precision medicine*
Guarisch-Sousa, R., Salfati, E., Kho, P. F., Iyer, K. R., Hilliard, A. T., Herrington, D. M., Tsao, P. S., Clarke, S. L., Assimes, T. L.

2023: e004047

- **Genetic impact of blood C-reactive protein levels on chronic spinal & widespread pain.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*
Farrell, S. F., Sterling, M., Klyne, D. M., Mustafa, S., Campos, A. I., Kho, P. F., Lundberg, M., Rentería, M. E., Ngo, T. T., Cuéllar-Partida, G.
2023
- **Discovery of genomic loci associated with sleep apnoea risk through multi-trait GWAS analysis with snoring.** *Sleep*
Campos, A. I., Ingold, N., Huang, Y., Mitchell, B. L., Kho, P. F., Han, X., García-Marín, L. M., Ong, J. S., Law, M. H., Yokoyama, J. S., Martin, N. G., Dong, X., Cuellar-Partida, et al
2022
- **A shared genetic signature for common chronic pain conditions and its impact on biopsychosocial traits.** *The journal of pain*
Farrell, S. F., Kho, P., Lundberg, M., Campos, A. I., Renteria, M. E., de Zoete, R. M., Sterling, M., Ngo, T. T., Cuellar-Partida, G.
2022
- **Dehydroepiandrosterone Sulfate and Colorectal Cancer Risk: A Mendelian Randomization Analysis.** *Twin research and human genetics : the official journal of the International Society for Twin Studies*
Jayarathna, D. K., Renteria, M. E., Kho, P. F., Batra, J., Gandhi, N. S.
2022: 1-7