

Dear all,

The Institute for Lifecourse Development is delighted to invite you to the next ILD Public Lecture on Thursday 21 July 2022 at 4.30pm in QM369 Queen Mary Court Greenwich Campus and on MS Teams. A calendar invite with the teams link has been sent separately.

***Estimating health risk factors distributions from sparse and heterogeneous data sources  
Insights from the 2<sup>nd</sup> South African Comparative Risk Assessment Study***

Using challenges and obstacles encountered during the 2<sup>nd</sup> South African Comparative Risk Assessment Study (SACRA-2) as motivating examples, the talk presents an overview of methods and approaches for estimating population distributions of risk factors when available data sources are sparse – i.e. they don't cover the whole range of subpopulations of interest – and heterogeneous in terms of available measurements, time frame and quality. While all the approaches presented rely on statistical modelling in their implementation, the focus of the talk is not statistical. It rather aims at clarifying concepts, assumptions and limitations underlying the various approaches and stimulating discussion on applications beyond the examples discussed.

***Dr Annibale Cois, MEng, MPH, PhD  
Department of Global Health, Faculty of Medicine and Health Sciences, Stellenbosch  
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Dr Annibale Cois is an Epidemiologist and Biostatistician. His background includes Master Degrees in Electrical Engineering (University of Cagliari, Italy) and Public Health (University of Cape Town), and a PhD in Public Health (University of Cape Town).

His current research interests focus primarily on the epidemiology of non-communicable diseases and associated risk factors in low- and middle-income countries and on statistical methods for the joint analysis of multiple heterogeneous data sources. Recent works include the application of latent variables techniques to the estimation and modelling of measurement error in anthropometric characteristics in large-scale surveys; the joint analysis of multiple datasets to recover long-term trends in blood pressure, body mass index and other cardiovascular risk factors; the study of seasonal patterns of cardiovascular risk factors in the South African population and their socioeconomic correlates; the application of Bayesian estimation methods for the study of population pattern of alcohol consumption.

He holds an honorary position as a Senior Lecturer in the Division of Epidemiology and Biostatistics at the School of Public Health of the University of Cape Town.

We hope to see you there and if you have any queries about the event, please email