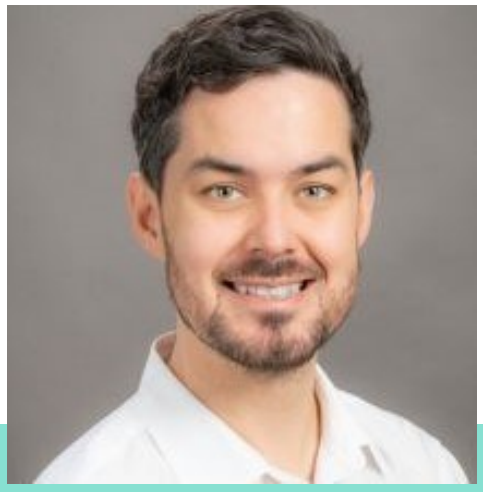
INSTITUTE for COMPUTATIONAL MEDICINE

Distinguished Seminar Series Spring 2024

Mathematical and Computational Frameworks for Adaptively Benchmarking Patients in States of Health, Disease, and Recovery



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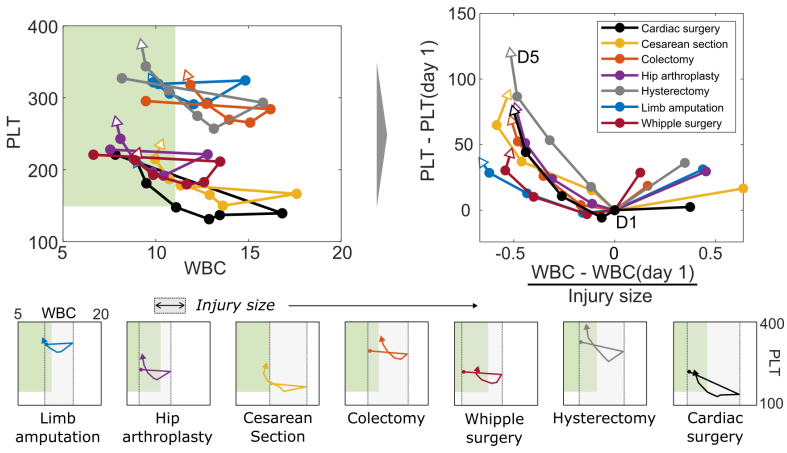

Laboratory testing is a cornerstone of modern medicine. While cutting-edge assays are constantly in development, the bulk of worldwide clinical testing is dominated by only a handful of markers. These 'boring' markers are regularly used in patient evaluation – but the physiologic insights they can provide are often overlooked. In this talk I will explore how mathematical and statistical methods can be used to generate deep clinical and physiologic insights from routine clinical laboratory tests such as the complete blood count. From my own research I will show how careful analysis and modelling of biomarker dynamics can provide exciting and novel insights into homeostatic recovery and regulation, chronic illness, and physiologic shifts such as pregnancy and menopause

Tuesday, March 5th 2024 @ 4:00PM ET in Clark 110

Live Webcast: https://wse.zoom.us/j/99695749134

Faculty Host: Dr. Alison Hill

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