

Title: Computational Modeling and Simulation for Decision Making in Global Health

by

A/Prof. Bruce Y. Lee
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Room NA 1.418, GTP building (Ground Floor),
Deakin University, Waurin Ponds, Geelong, Australia

RSVP – <http://www.deakin.edu.au/research/cisr/workshops/ieee-smc-vic.php>

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Abstract

We will review some examples of our ongoing efforts to develop and utilize computational models to help a wide variety decision makers (e.g., funders/donors, policy makers, disease control officials, healthcare workers, and manufacturers) address a variety of major issues affecting health and wellness throughout the world. Examples includes models of supply chains (HERMES), healthcare systems (RHEA), communicable and non-communicable diseases, and various types of technology to inform product development.

Biography:

Bruce Y. Lee, MD, MBA is Associate Professor of International Health at the Johns Hopkins Bloomberg School of Public Health, Director of the Global Obesity Prevention Center (GOPC) at Johns Hopkins (www.globalobesity.org), and Director of Operations Research at the International Vaccine Access Center (IVAC). Dr. Lee has over 15 years of experience in industry and academia in public health operations research, which involves developing and utilizing mathematical and computational methods, models, and tools to help stakeholders better understand decision making, processes, and systems. He has been the Principal Investigator for a number of projects supported by a variety of organizations and agencies including the Bill and Melinda Gates Foundation, the National Institutes of Health (NIH), the Agency for Healthcare Quality and Research (AHRQ), UNICEF, Global Good, and the Global Fund.

His previous positions include serving as Senior Manager at Quintiles Transnational where he led teams that developed economic and operational models for a variety of clients in the pharmaceutical, biotechnology, and medical device industries, working in biotechnology equity research at Montgomery Securities, and co-founding Integrigen, a biotechnology/bioinformatics company, and serving as an Associate Professor at the University of Pittsburgh, where he founded PIHCOR (Public Health Computational and Operations Research), which is now based at Johns Hopkins.

Dr. Lee has authored over 160 scientific publications (including over 80 first author and over 35 last author) as well as three books: "Principles and Practice of Clinical Trial Medicine", "What If...? : Survival Guide for Physician's, and "Medical Notes : Clinical Medicine Pocket Guide". He is an Associate Editor for the journal Vaccine and Area Series Editor for the Wiley Series on Modeling and Simulation. He also is a regular contributor to the Huffington Post. He and his work have garnered attention in leading media outlets such as the New York Times, Los Angeles Times, Businessweek, U.S. News and World Report, Bloomberg News, Nature Medicine, and National Public Radio (NPR). Dr. Lee received his B.A. from Harvard University, M.D. from Harvard Medical School, and M.B.A. from the Stanford Graduate School of Business. He completed his internal medicine residency training at the University of California, San Diego.