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Some Mathematical Insights into Aging and Mortality

In 1825 Benjamin Gompertz noted that, to a reasonable approximation, mortality rates after maturity in the British population increased exponentially with age. This unexpected yet simple relationship has since been

Japan: Total mortality 1981-90

Courtesy David Steinsaltz

seen in many multi-cellular organisms. Recently, it has been observed that this exponential increase appears to level off in extreme old age. Evans will discuss ongoing work that has as its ultimate goal the development of a quantitative framework that more fully explains how these patterns of mortality result from natural selection.

Professor Steven Evans
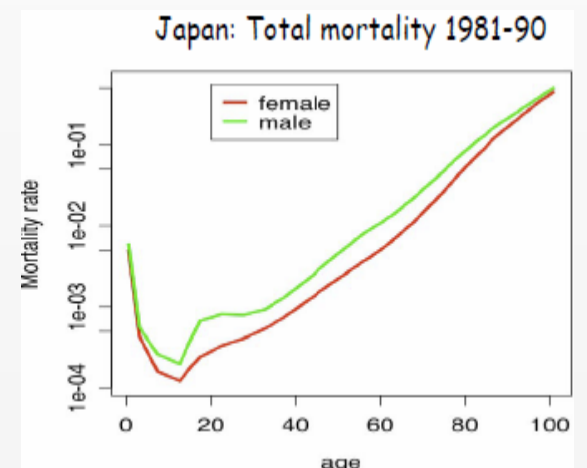**University of California at Berkeley**

Steven Evans was born and raised in rural Australia. He received his undergraduate education at the University of Sydney and his PhD from the University of Cambridge. After a stint working for the Commonwealth Bank of Australia and a post-doctoral position at the University of Virginia he joined the faculty at the University of California at Berkeley, where he has been ever since. Evans is a Fellow of the Institute of Mathematical Statistics, a Fellow of the American Mathematical Society, and a Member of the National Academy of Sciences.

Thursday, 3rd August 2017

Time: 6.30 — 7.30 pm

NUS University Town, LT50

**2 College Avenue West, Stephen Riady Centre
Singapore 138607**

FREE ADMISSION

The Three Ages of Man (Titian)

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