Kit Yates

Head of the Mathematical Developmental
Biology group
and
Co-director of the Centre for Mathematical
Biology

LMS Prospects in Mathematics

MyJourney

Undergraduate



MSc



Pattern formation



PhD



What is Mathematical Biology?

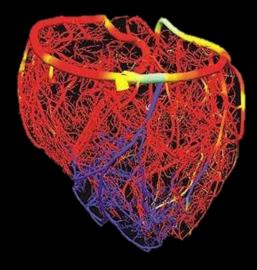
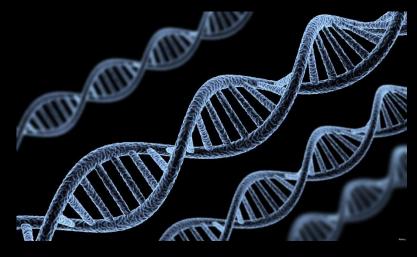


Photo: Prof. Denis Noble, Oxford University, UK)



http://cimbaliuk.com/love-drinking-coffeeit-may-genes/



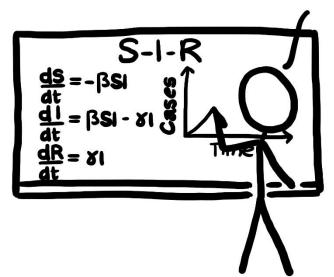
http://oceana.org/marine-life/ocean-fishes/atlantic-bluefin-tuna

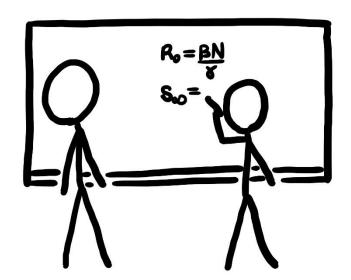


Public Health Image library

Mathematical epidemiology

Come on people, this is what we trained for:

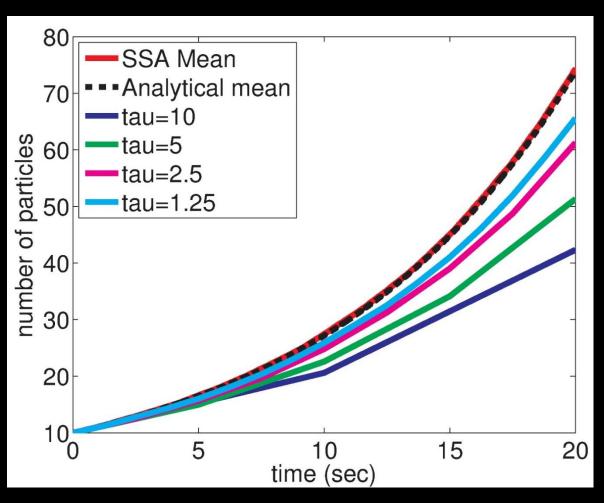




Mathematical Biologists - This is your time

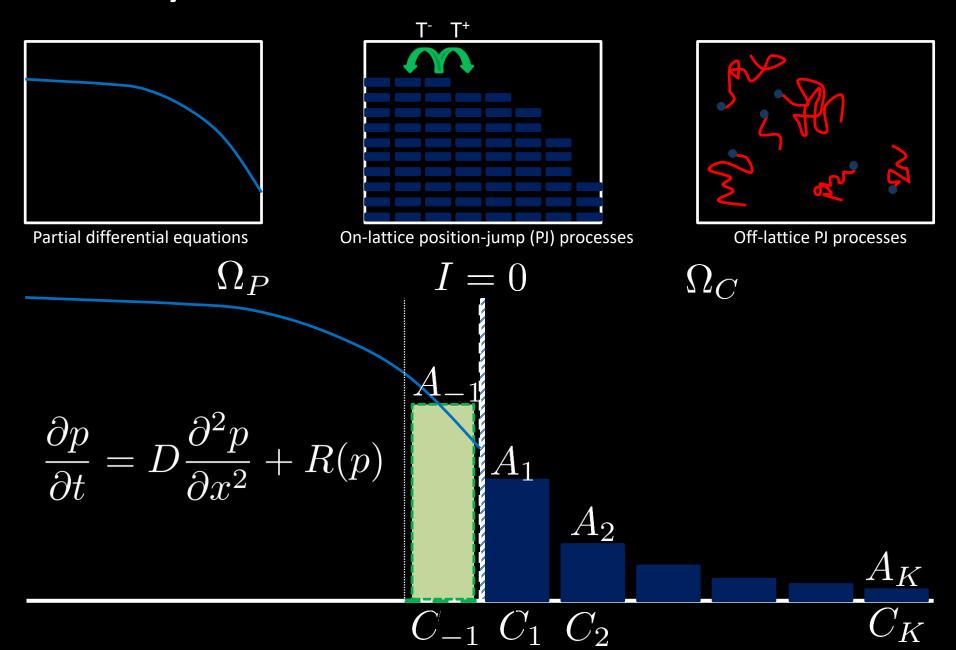
Research in the Yates group

Stochastic simulation algorithms (with applications to solar cells)

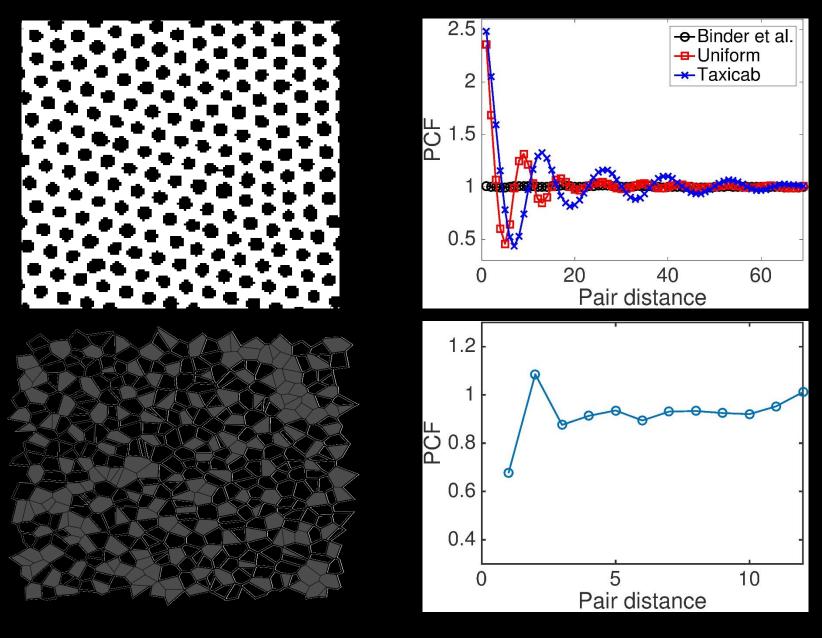


 $A \stackrel{0.1}{\rightarrow} 2A$.

Hybrid Stochastic simulation

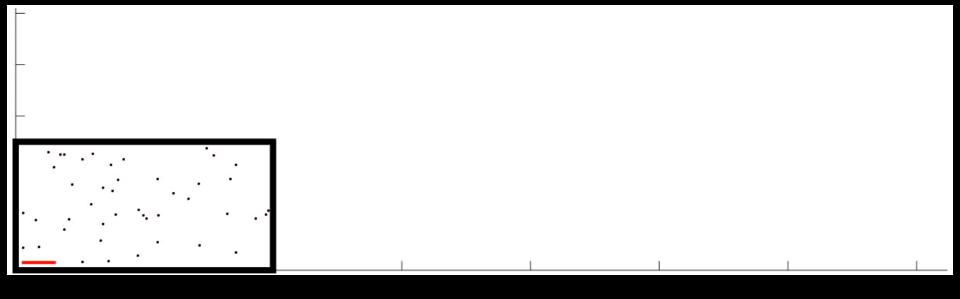


Quantifying patterning



Zebrafish pigment pattern formation





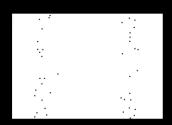
Mammalian pigmentation defects



From Fleischman et al. *Proc. Natl.* Acad. Sci. USA. (1991) 88(23)



0 hrs



Cats Coverage



A SUNDAYTIMES SCIENCE BOOK OF THE YEAR

'Exquisitely interesting and delightfully readable'
IAN McEWAN

Kit Yates

The Maths of Life and Death

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'An exciting new voice in the world of science communication'
MARCUS DU SAUTOY