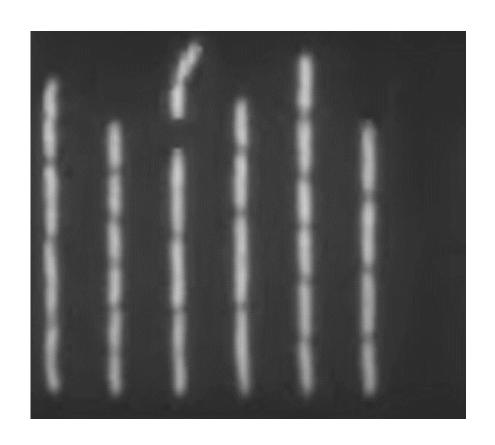
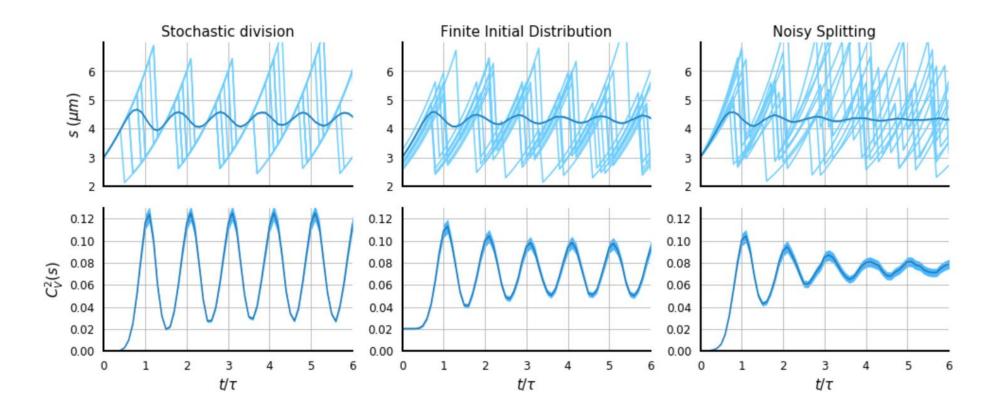
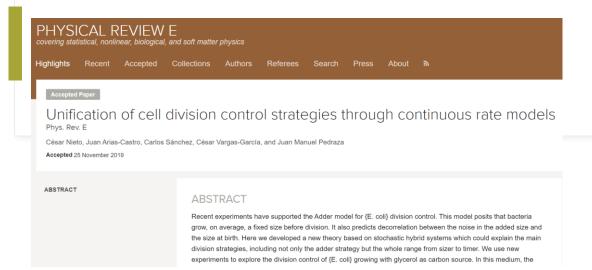


Stochasticity in bacteria







Physical Biology

ACCEPTED MANUSCRIPT

Correlation between protein concentration and bacterial cell size can reveal strategies of gene expression

Cesar Augusto Nieto¹, Cesar Augusto Vargas Garcia², Carlos Sanchez³, Juan Carlos Arias-Castro³ and Juan Manuel Pedraza⁴
Accepted Manuscript online 14 April 2020 • © 2020 IOP Publishing Ltd

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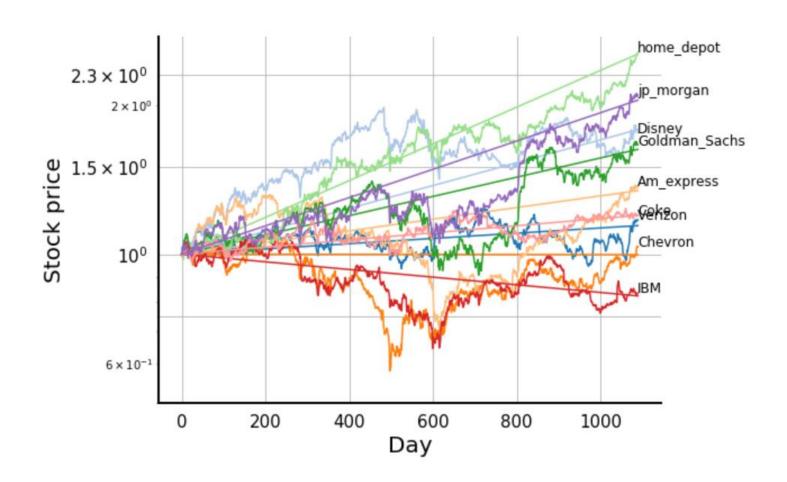
Efficient computation of stochastic cell-size transient dynamics



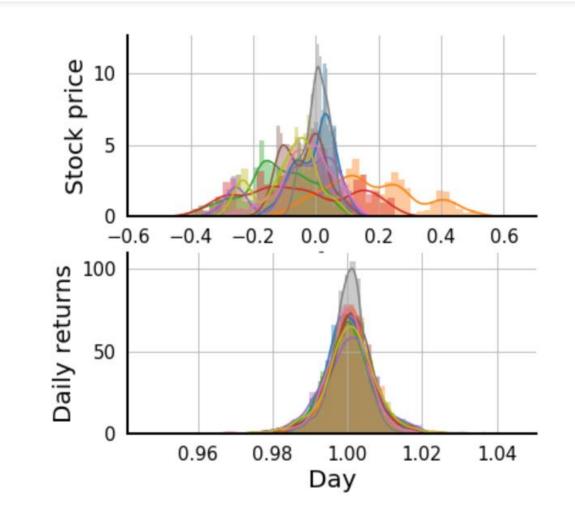
Cesar Augusto Nieto-Acuna¹, Cesar Augusto Vargas-Garcia^{2*} , Abhyudai Singh³ and Juan Manuel Pedraza¹

From Joint 30th International Conference on Genome Informatics (GIW) &; Australian Bioinformatics and Computational Biology Society (ABACBS) Annual Conference Sydney, Australia. 9-11 December 2019

Analyzing the fluctuations of the stock market

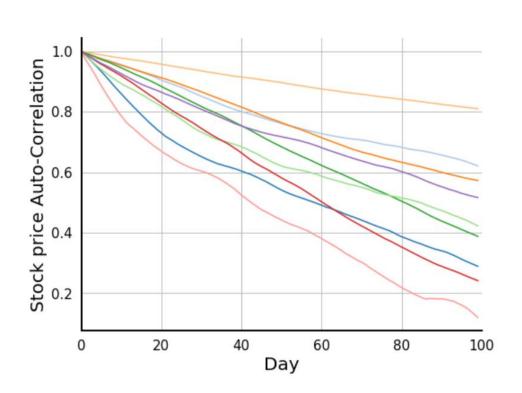


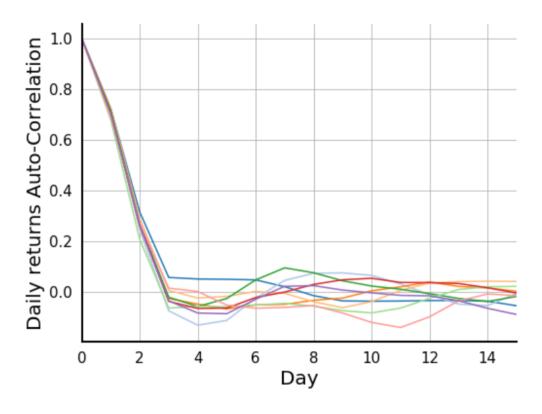
Analyzing the fluctuations



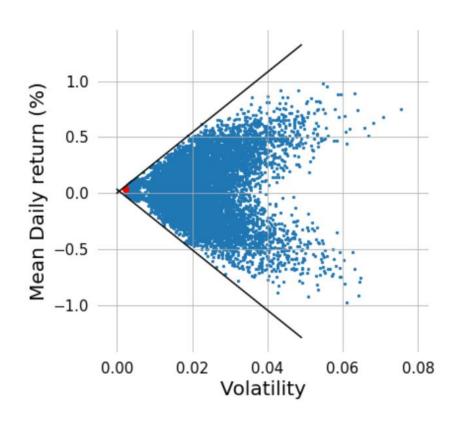
Ito calculus can be used!

Autocorrelation





Combining different portfolio distributions, we can minimize volatility



How is the optimum portfolio?

