# Michael Casey

Curriculum Vitae

Institute For Life Sciences
University of Southampton, SO17 1TR

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Nationality: Irish/British

### Education

## 2018–Present PhD Mathematical Sciences, University of Southampton,

"On the Mathematics of Cell Type" supervised by Ben D MacArthur and Rubén J Sánchez-García.

- 2017–18 MSci Natural Sciences (Systems Biology) (1st), University of Cambridge,
  Courses Data Acquisition and Handling [R], Modelling and Analysis of Networks [MAT-LAB], and Synthetic and Executable Biology.
- 2014–17 **BA Natural Sciences (Genetics) (2.i), University of Cambridge**,
  Selected Courses Developmental Genetics, Genomics and Systems Biology, and Evolutionary Genetics.

## Preprints & Publications

- 2020 'Measuring the Information Obtained from a Single-Cell Sequencing Experiment' *BioRxiv*, *Michael J. Casey*, *Rubén J. Sánchez-García and Ben D. MacArthur*
- 2020 'Genome reduction is associated with bacterial pathogenicity across different scales of temporal and ecological divergence' BioRxiv, Gemma G. R. Murray, Jane Charlesworth, Eric L. Miller, Michael J. Casey, Catrin T. Lloyd, Marcelo Gottschalk, A. W. (Dan) Tucker, John J. Welch and Lucy A. Weinert
- 2019 'Theory of Cell Fate' WIREs Systems Biology and Medicine. **Michael J. Casey**, Patrick S. Stumpf and Ben D. MacArthur. December 2019.

# Conferences and Workshops Attended

- 2019 Marine Biological Laboratory Advanced Training Course: Gene Regulatory Networks for Development, University of Chicago
- 2019 Stem Cells UK Day, Francis Crick Institute
- 2019 Physics of Living Matter Symposium, 14th Edition, University of Cambridge
- 2019 Industrially Focused Mathematical Modelling (InFoMM) UK Graduate Modelling Camp, University of Oxford
- 2018 Quantitative Systems Biology Workshop, Kings College London

## Research Visits

- 2019 Research Internship (2 weeks) in Hitoshi Takizawa group, IRCMS, Japan
- 2019 Enrichment Studentship (6 months), The Alan Turing Institute

#### Awards

2018 Bateman Scholar of Trinity Hall (for final year exam performance)

2016 Summer Studentship, UK Genetics Society

2014 Irish Team, International Chemistry Olympiad (Hanoi, Vietnam)

## References

Prof Ben Position: Primary PhD Supervisor, Professor of Applied Mathematics

MacArthur Affiliations: Institute for Life Sciences and School of Mathematical Sciences, University of

Southampton

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