Michael Casey

Curriculum Vitae

AstraZeneca
Cambridge, CB21 6GP
✉ *michael.casey1@astrazeneca.com*
Nationality: Irish/British

Education

2014–18	**Integrated Masters Natural Sciences, 1st class, University of Cambridge**, *Part II Genetics, Part III Systems Biology*.
2008–14	**St Louis Grammar School Ballymena**, *10 A*/As at GCSEs, incl Maths and English; 4 A*s at A-level*.

Professional Experience

2021–Present	**Data Scientist, AstraZeneca**, *Early CVRM, Translational Science & Experimental Medicine*.
2018–Present	**PhD Mathematical Sciences, University of Southampton**, *'On the Mathematics of Cell Type' supervised by Ben D MacArthur and Rubén J Sánchez-García*.
2020	**PhD Enrichment Studentship, The Alan Turing Institute**.

Selected Preprints & Publications

2021	'Estimating Cellular Redundancy in Networks of Genetic Expression', *Mathematical Biosciences, Raffaella Mulas &* **Michael J. Casey**
2020	'Measuring the Information Obtained from a Single-Cell Sequencing Experiment', *BioRxiv,* **Michael J. Casey**, *Rubén J. Sánchez-García and Ben D. MacArthur*
2019	'Theory of Cell Fate', *WIREs Systems Biology and Medicine,* **Michael J. Casey**, *Patrick S. Stumpf and Ben D. MacArthur*.

Selected Additional Experience

2019	Research Internship (2 weeks) in Hitoshi Takizawa group, IRCMS, Japan
2019	Marine Biological Laboratory Advanced Training Course: Gene Regulatory Networks for Development, University of Chicago
2019	Industrially Focused Mathematical Modelling (InFoMM) UK Graduate Modelling Camp, University of Oxford

References

Ian Henry	Affiliations: AstraZeneca Position: Line Manager (UoS), Head of Data Science for Early CVRM Translation Science & Experimental Medicine
Ben MacArthur	Affiliations: University of Southampton (UoS) & Alan Turing Institute (ATI) Position: Primary PhD Supervisor (UoS), Professor of Applied Mathematics & Medicine (UoS), Director of AI for Science and Government (ATI)