# MATTHEW G. JOHNSTON

Looking to relocate | Available January 2021 | https://matthew-johnston.com/ | 07859023531 |hello@matthew-johnston.com

## COMPETENCIES

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| Analytical and Problem Solving | - 4-year PhD programme and 3 fully-funded eight-week undergraduate internships, including international experience at the Université de Lausanne, Switzerland<br>- designed and performed my own experiments<br>- critically assessed colleagues' work in lab meetings and journal clubs |
| Self-starter | - BioTech YES Finalist: winning the Plant & Microbe round of the YES competition, 2017<br>- head author on a paper for the proper statistical treatment of cell-movement data after spotting a common misconception in the literature (preprint, under review)<br>- led social activities for the lab group: e.g. convincing all group members to participate in the annual JIC football competition and winning the 'Spirit Prize' (and the wooden spoon) |
| Team player | - teaching colleagues to write scripts for statistical and image analysis (ImageJ, R)<br>- collaborative experimental work, leading to joint first authorship on a PNAS paper<br>· on the organising committee for a regional conference (NoCaSS 2020) |
| Leader | - Chair of UK Biology Competitions: a group of volunteers who write biology exams for school students. Co-wrote the theory papers for the 2017 international competition<br>- Duke of Edinburgh Gold – Expedition Leader<br>- co-President of SciSoc (Cambridge's largest scientific society)<br>- CCF RAF Sergeant: coaching and training cadets and taking orders from higher ranks |
| Communication (Oral and Written) | - selected for multiple international presentations, chosen by line-manager to present in Germany<br>- lay presentation to A-level students<br>- published technical and lay articles (https://matthew-johnston.com/publications/) |
| Coding (R, Python, Github) | - webmaster for British Biology Olympiad written in Python, utilising Postgres databases handing >30'000 users in a week<br>- analysis of next-generation sequencing data, requiring the use of a high-performance computing cluster in BASH and downstream analysis in Perl and R<br>- go to lab member for statistical advice in R leading to several publications |

## EDUCATION

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| Oct 2016 – Current | Rotation PhD, Composition of and interactions at plasmodesmata, *Faulkner Group, Crop Genetics, John Innes Centre*<br><br>One of five PhD students on the flagship PhD programme designing my own split PhD, including experimental benchwork combined with a large proportion of bioinformatics and statistics. |
| Oct 2013 – Jul 2016 | Class I, Natural Sciences, BA, *Christ's College, University of Cambridge*<br><br>Rosabel Spencer-Thomas Prize in Natural Sciences (2016)<br>Christ's College Sporting Award (2016)<br>Exhibition Prize (2014)<br><br>2015/16 – Plant Sciences: including a 2-term research project (77%)<br>2014/15 – Biochemistry, Chemistry B, Plant and Microbial Sciences (Rank 3/66)<br>2013/14 – Biology of Cells, Chemistry, Mathematics (80%), Physiology of Organisms |
| Sept 2011 – Jul 2013 | A* in A2 Biology, Chemistry, Further Mathematics, Mathematics, Physics, *The Judd School, Kent* |