

MATTHEW G. JOHNSTON

London | 1 month's notice | <https://matthew-johnston.com/> | hello@matthew-johnston.com

COMPETENCIES

Coding (R, React, NodeJS, Python, Github)	<ul style="list-style-type: none">- full-stack developer for British Biology Olympiad written in React, NodeJS and Postgres. Built a bespoke exam application for 30,000 students, with in depth reporting on exam results- webmaster for British Physics Olympiad written in Python, utilising Postgres- analysis of next-generation sequencing data, requiring the use of a high-performance computing cluster in BASH and downstream analysis in Perl and R- statistical expert in R leading to several collaborative publications- data analysis and processing in Tidyverse in R and Pandas in Python
Analytical and Problem Solving	<ul style="list-style-type: none">- 4-year PhD programme and 3 fully-funded eight-week undergraduate internships, including international experience at the Université de Lausanne, Switzerland- designed and performed my own experiments- critically assessed colleagues' work in lab meetings and journal clubs
Self-starter	<ul style="list-style-type: none">- BioTech YES Finalist: winning the Plant & Microbe round of the YES competition, 2017- 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)
Team player	<ul style="list-style-type: none">- teaching colleagues to write scripts for statistical and image analysis (ImageJ, R)- collaborative experimental work, leading to joint first authorship on a PNAS paper- on the organising committee for a regional conference (NoCaSS 2020)
Leader	<ul style="list-style-type: none">- 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- Duke of Edinburgh Gold – Expedition Leader- co-President of SciSoc (Cambridge's largest scientific society)- CCF RAF Sergeant: coaching and training cadets and taking orders from higher ranks
Communication (Oral and Written)	<ul style="list-style-type: none">- selected for multiple international presentations, chosen by line-manager to present in Germany- lay presentation to A-level students and taught primary children biology for a charity- published technical and lay articles (https://matthew-johnston.com/publications/)

EXPERIENCE

Mar 2021 – Jul 2021	<p>Associate Data Consultant, <i>Capco</i></p> <p>I received a two-week intensive consultant-focussed financial services training. This included project management (agile and waterfall work methodologies), as well as client management and business analysis.</p> <p>In addition, I sat a four-week data training, focussed on data cleaning, analysis (Python, PySpark), visualisation (PowerBI) and profiling (Celonis). I worked on projects using Python and React at a Tier 1 global bank.</p>
Oct 2016 – Jan 2021	<p>Rotation PhD, Composition of and interactions at plasmodesmata, <i>Faulkner Group, Crop Genetics, John Innes Centre</i></p> <p>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.</p>
Oct 2013 – Jul 2016	<p>Class I, Natural Sciences, BA, <i>Christ's College, University of Cambridge</i></p> <p>Rosabel Spencer-Thomas Prize in Natural Sciences (2016)</p> <p>Christ's College Sporting Award (2016)</p> <p>Exhibition Prize (2014)</p> <p>2015/16 – Plant Sciences: including a 2-term research project (77%)</p> <p>2014/15 – Biochemistry, Chemistry B, Plant and Microbial Sciences (Rank 3/66)</p> <p>2013/14 – Biology of Cells, Chemistry, Mathematics (80%), Physiology of Organisms</p>
Sept 2011 – Jul 2013	<p>A* in A2 Biology, Chemistry, Further Mathematics, Mathematics, Physics, <i>The Judd School, Kent</i></p>