

Parker Talbot

parkertalbot2@gmail.com | 07599 187717

PERSONAL PROFILE

Wassup ma dude here you can learn a bit more about this sick geezer.

LINKS

Github - [talbotp](#)
LinkedIn - [parker-talbot](#)
Personal-Site - [parkertalbot.com](#)

SKILLS

PROGRAMMING

Familiar Skills:

Java • Java Swing • SQL • Latex • Knime
• Matlab • HTML • Object-Oriented
programming • ImageJ • JUnit

Basic Skills:

C • C++ • CSS • UML • Python • Jekyll
Learning:

In my free time I am working through some books on the C programming language, and am keen to further my knowledge in both C and C++.

MODULES

GRADUATE

Software Workshop (Java)
Data Structures
Databases
Software Engineering
Operating Systems
Networks
Cryptography
Artificial Intelligence
Intelligent Data Analysis

UNDERGRADUATE (KEY)

Integer Programming
Numerical Methods (C++)
Combinatorial Optimisation
Number Theory
Algebra & Combinatorics
Linear Algebra
Linear Programming
Statistics
Multivariable & Vector Analysis

EDUCATION

UNIVERSITY OF BIRMINGHAM

MSc COMPUTER SCIENCE

September 2017 - September 2018

Obtained: Distinction - 83% average in taught modules

Dissertation: "A software plugin for Mass Spectrometry Data Analytics."

UNIVERSITY OF BIRMINGHAM

BSc MATHEMATICS

September 2014 - July 2017

Obtained: Upper Second

Dissertation: "Random Walk Approximations of Brownian Motion and Financial Markets."

GODALMING COLLEGE

Mathematics - A*, Further Mathematics - A, Geography - B

PROJECT EXPERIENCE

MASS SPECTROMETRY IMAGING

Developed a software plugin in the workflow management and data analytics tool Knime for Mass Spectrometry (Biological) data - built in Java.

- Featured multithreaded preprocessing nodes for baseline subtraction, smoothing, rebinning and normalizing.
- Visualization nodes could be used to generate images of single signals, and generate images of the entire data using imglib2 library.
- Clustering nodes to visualize the natural structure of the data.
- Required a unique approach to testing and documentation, treating nodes as independent subsystems.

NORMALIZED CUTS IMAGE SEGMENTATION

DESKTOP COMPUTER SCIENCE QUIZ

EXPLORATION OF PCA

WORK EXPERIENCE

WEIGHTLIFTING SOCIETY COMMITTEE

CATERING ASSISTANT