

Max Carter-Brown

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Professional Summary

I am an experienced programmer and data analyst with a focus on performance and safety. I have created many software packages and made them available to the open source community in a variety of programming languages (Rust, Python, JavaScript, R, BASH). I have a rigorous research background with strong skills in data analysis, especially (generalised) linear mixed effect models, and data visualisation (ggplot2, D3). I am confident in managing ongoing deadlines and changing priorities, sharing information and skills as part of a wider team, and communicating effectively with external partners.

Key Skills

- Proficient in several programming languages
- Data analysis
- Working on server and cluster environments
- Version control using Git and GitHub
- Knowledge of web development
- Excellent verbal/written skills
- Keen eye for detail
- Approachable, can-do attitude

Employment

Senior Bioinformatician, 2020-present.

Tree of Life, Wellcome Sanger Research Institute, Cambridge, UK.

I am responsible for:

- Software and algorithm development to handle a variety of data structures.
- Building pipelines on our servers, utilising appropriate pre-existing software tools where appropriate.
- Optimising codebases to work more efficiently in workflows. I liaise with other departments to ensure functionality is not compromised.
- Conducting primary research on genomic sequence data (Apple/Oak genomes), collaborating with, and presenting results to, the wider organisation.
- Outreach. I communicate complex information to a variety of audiences.

Assistant Technician, 3-month FTC, 2016.

Samara James, Surrey, UK.

Main duties:

- Search Engine Optimisation for the Samara James website.
- Social Media advertising, creating content to engage with online audiences and developing advertising content to identify and encourage new audiences.
- Comprehensive understanding of analytics and implementing these to maximise online exposure for Samara James.

Education

Ph.D. Plant Ecology and Genetics, University of Edinburgh, 2016-2020.

Thesis: **Taxonomic complexity in eyebrights (*Euphrasia* L., Orobanchaceae) and the British flora.**

During my PhD I was able to develop my skills in software development, statistical analysis, experimental design, time management, and writing. I was a demonstrator for undergraduate students, teaching bioinformatics on AWS servers.

B.A. Biological Sciences, University of Oxford, 2013-2016.

Publications and Open Source Software

I have published several scientific publications, mainly on plant ecology and genetics. See my ORCID ID for full details - <https://orcid.org/0000-0003-2561-516X>.

Software I have published online, mainly in bioinformatics and statistics, can be found on my GitHub account - <https://github.com/Euphrasiologist>.

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