

Alastair Maxwell

Curriculum Vitae

WORK EXPERIENCE

April 2020 – Present

Bioinformatician and Systems Administrator

Genevia Technologies, Finland

Carrying out bioinformatic analyses on client projects (from RNASeq, to Whole Genome big-data) to efficiently produce high quality results and figures. Leading development of in-house distributed computing infrastructure to forecast and deal with ever increasing sizes of client datasets. Managing internal server clusters, from organising data flow and resource queuing systems, to software support and networking tools to aid remotely working staff.

December 2016 – March 2020

Bioinformatician

University of Glasgow, Scotland

Continued development on Huntington Disease pipeline; development of novel Digital Signal Processing module to determine literal amplicon sequence structures, utilised machine learning based classifiers to drive a parallel genotyping platform. Configured and administered local POSIX-based server to enable Huntington Disease genotyping service for CHDI Foundation.

September 2016 – November 2016

Visiting Technical Expert

EMBL-EBI, England

Working as a visiting technical expert at EMBL-EBI in Cambridge, to assist with deployment of my genotyping software onto local clusters. Optimisation of functions for specific sub-projects and exploration of Bayesian based genotyping support.

November 2014 – August 2016

Bioinformatician

University of Glasgow, Scotland

Led design and development of custom platform to genotype Huntington Disease data in an automated manner, accounting for real-world phenomena which typically limits the application of automation. Optimising workflows within our research group and maintenance of data archive standards.

August 2013 – October 2014

Bioinformatics and Systems Biology MSc

University of Glasgow, Scotland; Keio University, Japan

Protein Structure Informatics; Extensive experience with Next-Generation Sequencing technologies and hardware such as Illumina, Roche-454, IonTorrent and resultant data analysis; Machine learning and statistical modelling. Led development of a Carbon-13 atom transition mapping Python package, to aid in generation of more energy efficient yeast.



Pirkanmaa, Finland



helloabunai.github.io



LinkedIn



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English (native), Finnish (beginner)



A down-to-earth and self-motivated individual, interested in the interface between biology, data, computing, and how best to communicate ideas with others.

EDUCATION

2014 **Master of Science**

METABOLOMICS & SYSTEMS BIOLOGY

高度専門士の秀

Keio University, Japan

2014 **Master of Science**

BIOINFORMATICS

Awarded Distinction

The University of Glasgow

2013 – 2014 **Postgraduate Diploma**

BIOINFORMATICS

The University of Glasgow

2009 – 2013 **Bachelor of Science (Hons)**

IMMUNOLOGY & MICROBIOLOGY

First Class with Distinction

The University of Strathclyde

AWARDS

2016 **Best poster award**

IET Glasgow

2014 **最優秀賞 award**

Keio University

2014 **Thomas Blake Glover Scholarship**

Aberdeen Asset Management

2009 – 2013 **Academic Distinction Award**

University of Strathclyde

TECHNOLOGY SKILLS

Languages & Tools

PYTHON, PANDAS, BASH/ZSH,
R, JAVA, LATEX, C++

Database & Web

DJANGO, HTML5
JAVASCRIPT, SQL (VARIOUS),
SLACK WEBHOOK APPS,
GIT, JIRA

System Administration

CENTOS ADMINISTRATION,
RESOURCE MONITORING,
SSH, SOCKS & NETWORKING,
SLURM, x86 HARDWARE,
CONDA ENVS, DOCKER