

Nicolas Arning

PhD Computational Genomics

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Education

M.Sc Biosciences | 2016 | Grade 1.4
WWU Münster

Secondment | 2015 | Grade 1.1
University of British Columbia

B.Sc Biosciences | 2014 | Grade 1.8
WWU Münster

Secondment | 2014 | Grade 1.6
University of Sheffield

Skills



Extra-curricular

Participant in

Young Entrepreneur Science

- Conceived hypothetical startup
- Developed financing and marketing strategies

Lecturing at

Doctoral Training Centre

- Developed and held introduction into LaTeX
- Lectured for Python, C and Phylogenomics

Referees

Prof. Daniel J. Wilson

Big Data Institute
University of Oxford
daniel.wilson@bdi.ox.ac.uk

Prof. David C. Clifton

Institute for Biomedical Engineering
University of Oxford
davidc@robots.ox.ac.uk

Relevant Experience

- Since Oct 2022
- Health Data Scientist**
Big Data Institute, University of Oxford
Developing disease independent risk factor prediction using Bayesian model averaging on UK Biobank data
- Sep 2017 - Jul 2022
- Doctor of Philosophy**
Big Data Institute, University of Oxford
Developed *Campylobacter* source attribution algorithm using Machine learning on whole genomes
Uncovered genetic underpinnings of *Campylobacter* infectivity through genome wide association studies
- Jun 2018 - Jul 2022
- Founder and leader DTC Coding Dojo**
Doctoral Training Centre, University of Oxford
Developed peer-support network for Bioinformatics
- Nov 2019
- Course co-organiser**
Doctoral Training Centre, University of Oxford
Conceived and held deep learning course with two peers
- Jan 2019 - Mar 2019
- Intern**
Oxford Nanopore Technologies
Developed taxonomic classification deep learning algorithm

Selected publications

- Oct 2021
- Machine learning to predict the source of campylobacteriosis using whole genome data
PLOS Genetics
N Arning, S Sheppard, S Bayliss, DA Clifton, DJ Wilson
- Jul 2021
- Mapping the human genetic architecture of COVID-19
Nature
COVID-19 Host Genetics Initiative
- Oct 2020
- Genomewide association study of severe Covid-19 with respiratory failure
New England Journal of Medicine
Severe Covid-19 GWAS Group
- Jul 2020
- The past, present and future of ancient bacterial DNA
Microbial Genomics
N Arning, DJ Wilson
- Mar 2018
- Hemimetabolous genomes reveal molecular basis of termite eusociality
Nature Ecology and Evolution
MC Harrison, E Jongepier, HM Robertson, N Arning [...]