

MARINA VABISTSEVITS

Doctoral student at the University of Bristol, working in the interdisciplinary research of applying data mining methods to answer epidemiological questions

EDUCATION

- 2023
|
2019
- **PhD, Data mining in Epidemiology**
University of Bristol 📍 Bristol, UK
 - Thesis: "Data mining breast cancer epidemiological relationships"
- 2017
|
2015
- **MSc, Bioinformatics**
University of Copenhagen 📍 Copenhagen, Denmark
 - Master's thesis: "Identification of autophagy signatures in breast cancer using The Cancer Genome Atlas data"
- 2015
|
2011
- **BSc, Biochemistry**
University of Bath 📍 Bath, UK
 - Final year project: "Structural analysis of substrate binding in *Sulfolobus solfataricus* 2-keto-3-deoxygluconate aldolase variants"

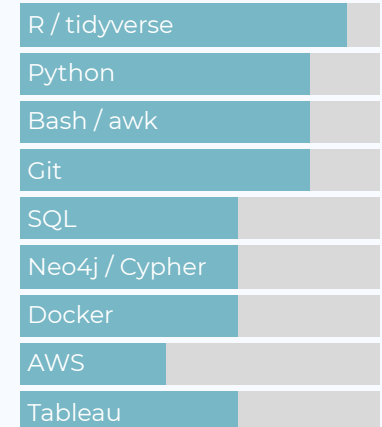
RESEARCH EXPERIENCE

- 2023
|
2019
- **Doctoral Student**
MRC Intergative Epidemiology Unit 📍 University of Bristol
 - Mini-project 1: Implemented a generalisable R workflow of performing multivariate correlation analysis (metaCCA) on several GWAS, using summary statistics from MR-Base, in order to find pleiotropic variants across the measured traits
 - Mini-project 2: Carried out a Mendelian Randomisation study to investigate the mechanism mediating the effect of early life BMI on breast cancer risk
 - Main PhD project: Working with EpiGraphDB, a Neo4j graph database, to answer causal relationship questions in breast cancer and build a comprehensive model of the disease aetiology, by applying data mining and machine learning methods
- 2017
|
2016
- **Visiting Researcher / Master's Thesis Student**
Danish Cancer Research Centre 📍 Copenhagen, Denmark
 - Explored TCGA breast cancer gene expression RNA-Seq data to identify the involvement of autophagy-related genes in certain disease subtypes.
 - Performed an extensive EDA, followed by differential expression and enrichment analyses, allowing me to find over-represented autophagy genes
 - Built an efficient workflow in R, and identified and applied a new method to this field, which was enthusiastically adopted by other group members

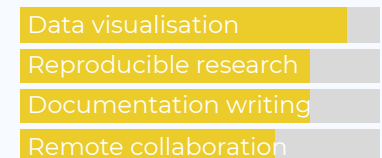
CONTACT

✉ marina.vabistsevits@bristol.ac.uk
@bristol.ac.uk
🐦 [marina_vab](https://twitter.com/marina_vab)
📄 github.com/mvab
🔗 marinalearning.netlify.com
🌐 linkedin.com/marina-vabistsevits-82590443

TECH SKILLS



OTHER SKILLS



CV made with the R package [pagedown](#).

Code available at github.com/mvab/cv.

Last updated on 2020-11-15.



INDUSTRY EXPERIENCE

- 2021
|
2020
- **Data Scientist (Senior Executive Officer)**
Public Health England 📍 UK
 - Joined Contact Tracing and Surveillance team as an R developer to work on COVID-19 Test & Trace data analysis
- 2020
|
2017
- **Bioinformatician**
Living DNA 📍 Frome, UK
 - Led the research work on improving the ancestry reference panels used by the core pipeline behind the company's direct-to-consumer ancestry genetics test, bringing considerable improvement to results accuracy
 - Gained experience in working with a legacy codebase through maintaining and contributing to the in-house pipelines (Python)
 - Honed my R programming skills by switching to tidyverse approach and advanced my data visualisation skills
 - In 2019, left the full-time role to pursue further education, but continued contributing to the research and development at Living DNA on a part-time basis
- 2017
|
2016
- **Student research assistant in the Big Data group**
3Shape 📍 Copenhagen, Denmark
 - Performed data preparation and visualisation tasks in Python, gaining practical experience of programming in a professional environment
 - Used deep learning framework Caffe2 to develop a neural network training pipeline for scan image classification tasks
- 2014
|
2013
- **Placement Student in Bioinformatics team**
Oxford Gene Technology 📍 Oxford, UK
 - Became responsible for a multitude of exome- and RNA-seq projects, running in-house data analysis pipelines and performing custom analysis for different projects



EXTRA CONTRIBUTIONS

- 2020
- **COVID-19 data analytics Hackathon**
by TrueCue and Women in Data
- 2020
- **Food Standards Agency Data Visualisation Challenge**
by Jean Golding Institute and FSA 📍 Runner-up prize
- 2018
- **Air pollution in Bath hackathon with Bath:Hacked group**
by BreATHe project by B&NES Council
- 2018
- **Hackathon for Dogs Trust charity**
by Microsoft and R-Ladies London
- 2017
- **Hackathon for Danish Cancer Society**
by Deloitte and Danish Cancer Society 📍 Best Technical solution Award