

# MARINA VABISTSEVITS

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

## EDUCATION

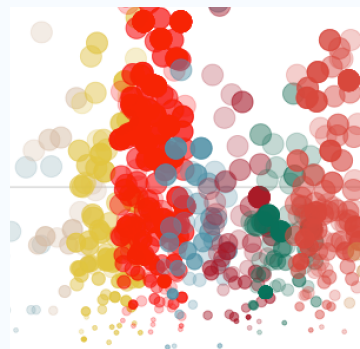
- 2023  
|  
2019
- **PhD, Data mining in Epidemiology**  
University of Bristol 📍 Bristol, UK
  - **MSc, Bioinformatics**  
University of Copenhagen 📍 Copenhagen, Denmark
  - **BSc, Biochemistry**  
University of Bath 📍 Bath, UK

## RESEARCH EXPERIENCE

- 2023  
|  
2019
- **Doctoral Student**  
MRC Intergrative 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: Will be working with EpiGraphDB, a graph database, to answer causal relationship questions in epidemiology using data mining methods
  - **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 extensive EDA, followed by differential expression analysis and enrichment analysis, allowing me to find over-represented autophagy genes

## INDUSTRY EXPERIENCE

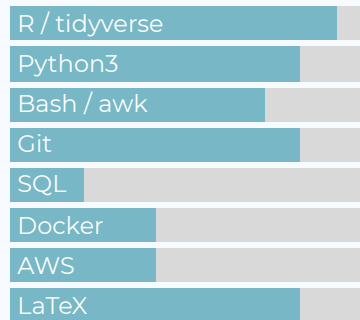
- 2019  
|  
2017
- **Bioinformatician**  
Living DNA 📍 Frome, UK
    - Led the research work on improving the ancestry reference panels used by the core pipeline behind the company's direct-to-consumer ancestry genetics test, bringing considerable improvement to results accuracy
    - Gained experience 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
  - **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
  - **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



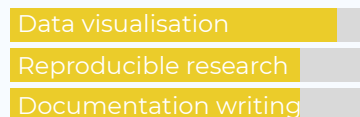
## CONTACT

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## TECH SKILLS



## OTHER SKILLS



## For fun I like to

-attend in BristolR and Py-Data meetups  
-listen to Data Science podcasts  
-participate in hackathons / data challenges

See full CV at [marinalearning.netlify.com/cv](https://marinalearning.netlify.com/cv)

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Last updated on 2020-05-17.