MARINA VABISTSEVITS

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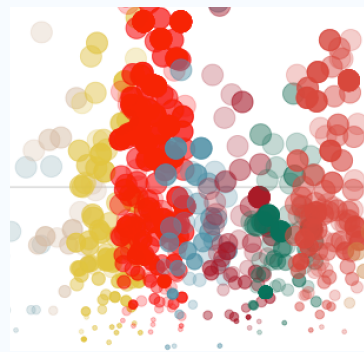
🎓 EDUCATION

2023 | 2019
PhD, Data mining in Epidemiology
University of Bristol
📍 Bristol, UK

2017 | 2015
MSc, Bioinformatics
University of Copenhagen
📍 Copenhagen, Denmark

2015 | 2011
BSc, Biochemistry
University of Bath
📍 Bath, UK

💻 RESEARCH EXPERIENCE

2023 | 2019
Doctoral Student
MRC Intergative Epidemiology Unit
📍 University of Bristol

· Mini-project 1: Implemented multivariate correlation analysis workflow in R (meta-CCA) using OpenGWAS data, to find pleiotropic variants across multiple 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
· 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 extensive EDA, followed by differential expression analysis and enrichment analysis, allowing me to find over-represented autophagy genes
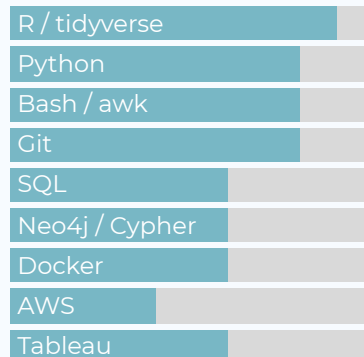
💼 INDUSTRY EXPERIENCE

2021 | 2020
Data Scientist
Public Health England
📍 UK

· Part-time secondment at PHE Data Surveillance and Management team, working within the Contact Tracing cell to assist with COVID-19 transmission data analysis

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
· Maintained and contributed to the in-house data analysis pipelines (Python) and build my R skills by switching to tidyverse approach

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
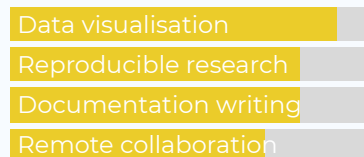

CONTACT

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🔗 marinalearning.netlify.com

in linkedin.com/marina-vabistsevits-82590443

TECH SKILLS

R / tidyverse	
Python	
Bash / awk	
Git	
SQL	
Neo4j / Cypher	
Docker	
AWS	
Tableau	

OTHER SKILLS

Data visualisation	
Reproducible research	
Documentation writing	
Remote collaboration	

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

Made w/ pagedown.

Last updated on 2021-02-08.