Samantha Pendleton MSc

PhD Student in Clinical Informatics
Data Science Masters | Business IT Graduate

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Profile

Currently a PhD student in Clinical Informatics. I have an extensive set of skills and experience, ranging from data science applications, bioinformatics, and clinical analysis. I am an organised individual, who works well through fast-paced environments, and able to communicate effectively with colleagues. I have experience in assisting individuals, specifically students, throughout my employment and educational practises.

Skills

Using Python and R, I have a wide set of skills: machine learning, unsupervised clustering, text mining, statistics, natural language processing, ontologies, semantics, sentiment analysis.

Education

» **PhD** student in Clinical Informatics (2018-present)
Institute of Cancer and Genomic Sciences, University of Birmingham
Thesis: Creating an AI based data assistant to bridge genotype to metadata linking primary clinical data to biobank sample
» **Masters** graduate in Data Science (2017-18)
Institute of Maths, Physics, and Computer Science, Aberystwyth University
Dissertation: Metagenomics of Acid Soil
» **Bachelors** graduate in Business Information Technology (2014-17)
Institute of Maths, Physics, and Computer Science, Aberystwyth University
Dissertation: Web Major Project

Experience

» **Researcher**, Bioinformatics; Aberystwyth University (2017)
An analysis of current state of the art software on nanopore metagenomic data
» **Assistant**; Information Services at Hugh Owen Library, Aberystwyth University (2016-17)
Jobs: Assisted staff, attended focus groups, made strategy & floor plans
» **Student worker**;
Teaching assistant for Computational Biology; Worklink, University of Birmingham (2019)
Advisor/Demonstrator; AberWorks, Aberystwyth University (2016-18)
» **Volunteering** (2006-17)
Jobs: Environmental work, assisted with charity events
Peer mentor for the Computer Science Department at Aberystwyth University

Achievements
- » Images of Research entry (2020)
- » Max Perutz Science Writing Award entry (2019)
- » BCS Lovelace Colloquium attendee (2017-18)
- » President of Computer Science Society, Aberystwyth University (2017)
- » Certificates from Aberystwyth University (2016)
  Diversity & Manual Handling Course

Publications / Tools
- » The Ocular Immune-Mediated Inflammatory Diseases Ontology (2021)
  https://doi.org/10.1016/j.compbiomed.2021.104542
- » Jabberwocky: a toolkit for ontologies and text mining (2020)
  https://doi.org/10.21105/joss.02168
- » Acidoseq: studying Acidobacteria reads from a Nanopore metagenomic data (2018)
- » An analysis of current state of the art software on nanopore metagenomic data (2018)
  https://doi.org/10.1101/288969

Interests
I enjoy a wide variety of activities in my spare time; I enjoy creative hobbies/crafts: pottery, sewing, and knitting. I like to spend my time developing my knowledge and working on personal projects - these can be found in my GitHub portfolio; with blogs discussing some of these projects can be found in my personal site here: https://sap218.github.io/.