ELIA CHARLES

+44 7511 635 907 ⋄ eliacharles@live.com

EDUCATION

University of Manchester   *Sept 2020 - Sept 2021*
MSc Data Science (Environmental Analytics)

University of Manchester, School of Biological Sciences   *Sep 2014 - Jun 2018*
MSci Microbiology   1st Class

Wallington Grammar School   *Sep 2012 - Jun 2014*
A-levels   Grades Achieved:
Biology, Mathematics, Chemistry   A, A, B

Whitgift School   *Sep 2007 - Jun 2012*
GCSE   Grades Achieved:
Overall   4 A*s 6 A's

RESEARCH EXPERIENCE

University of Manchester, School of Earth & Environmental Sciences   Sep 2018- Dec 2018
Research Assistant

· Investigated the ability of in *Shewanella oneidensis* to acclimate to copper stress under aerobic and anaerobic conditions.
· Analysed and presented data using Microsoft Office, Prism and Python 3.
· Research contributed to understanding whether copper tolerance pathways could be enhanced in *S.oneidensis*.

University of Manchester, School of Biological Sciences   Sep 2017 - Jun 2018
Undergraduate Research

· **Published first author paper: doi.org/10.1016/j.algal.2018.11.00**
· Investigated the biochemical signatures of *Chlamydomonas reinhardtii* following exposure to ionic stressors representative of wastewater.
· Received introductory modules in Computational Theory, Python and Mathematica coding.
· Analysed and presented data using MATLAB, Microsoft Office and Prism 7 in reports and presentations.
· Analysis consisted of t-tests, Two-Way Anova, PCA and DFA.
· Research contributed to assessing the viability of wastewater as an algal feedstock and monitored biochemical signatures over the course of acclimation.

WORK EXPERIENCE

Poliglota Chile   November 2019- June 2020
Language Coach

· Prepared lesson plans that allowed clients to learn English through speaking alone.
· Guided group conversations in English and Spanish for clients.
· Constantly received feedback from clients to tailor my methods to the group's learning preferences.

British Council English Language Assistant   September 2019- May 2020
Language Assistant

· Assisted students with grammar and pronunciation during classes.
· Held speaking and grammar workshops tailored to student levels.
· Provided students with cultural facts about the UK and draw attention to slang terminology and colloquialisms.

St. Thomas the Apostle Secondary School   January 2019 - July 2019
Science Teacher

· Taught KS3 and KS4 Science.
· Guided students safely through practicals and explained statistical analysis of results.
· Created my own lesson plans and class resources.
· Analysed student results data to provide progress reports to students and parents.

VOLUNTEERING CERTIFICATES

Realimentation(Volunteer) - I volunteered with a charity based in Santiago called Realimentation. We recycle food waste from local markets as animal feed for local farmers who are effected by drought.

Harvard CS50 - Completed course using Vim text editor and used Python 3 mainly to complete tasks.

Kaggle - Completed Python, Intro and Intermediate Courses to Machine Learning, and Pandas Courses.

SKILLS / TECHNICAL STRENGTHS

Software & Tools	ArcGIS, Microsoft Office, LaTex
Coding Languages	Python, R, SQL, NoSQL(MongoDB)
Languages	Spanish (B2)

REFERENCES

Dr. Jon Pittman: Programme Director Biotechnology, School of Earth and Environmental Sciences , University of Manchester, jon.pittman@manchester.ac.uk, 0161 275 5235

Dr.Richard Kimber, Post-Doctorate Researcher, School of Earth and Environmental Sciences, University of Manchester, richard.kimber@manchester.ac.uk.