Artemis Bouzaki

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I am Final Year Physics (MPhys) student with a background in research and data analysis and I am applying for this position as I wish to apply and advance my skills in the industry.

EDUCATION

09/2019-06/2023 **The University of Manchester**
Physics MPhys
Current GPA: 77.1 %

- Completing a Master's project with the Radiotherapy Related Research group at the Christie Hospital which is based on the implementation of machine learning into cancer treatment planning.
- Completed a semester's programming course on Python code with a project which performed a 2D minimised chi-squared fit of astronomical data by simultaneously varying two parameters.
- Received above 85% on my latest reports in iodine absorption spectroscopy and low-energy gamma ray experiments. Both reports were classified as of publishable standard by the university's marking criteria.

09/2017-06/2019 **4th Lyceum of Chania**

- A-Level equivalent: Physics (99.5 %), Maths (88 %), Chemistry (91 %).
- Year 13 Graduation average: 99.5 %.

RELEVANT EXPERIENCE

06/2022- 08/2022 **The University of Manchester**
LHCb (CERN) Research Intern

- Handled big data problems working with over 1.5 million datapoints and developed techniques to analyse them efficiently.
- Developed original code in Python in the form of Jupyter notebooks, learned quickly a completely new working environment (Linux) and quantified statistically the goodness/quality of fits.
- Used sophisticated fitting models to find the raw matter-antimatter asymmetry in D0->Kpi decays, a physics problem not yet tackled in the LHCb collaboration.
- Communicated results clearly and concisely and presented final research results to supervisors.

07/2021- 09/2021 **Trove Research Limited**
Summer Research Intern

- Developed and implemented a database to capture unstructured quantitative and qualitative sustainability data of over 5,000 companies.
- Analysed and assessed issues in corporate emission and sustainability disclosures and prepared a best practices report drawing on attained insights which was later published.
- Supervised the creation of a guide for training new interns.

06/2020– 09/2020 **Technical University of Crete**
Summer Data Analyst

- Performed data reduction which insured consistent data over different apparatuses and statistical analysis of five zero energy neighbourhoods and 20 buildings around Europe for the European Horizon 2020 research project ZEROPLUS.
- Gained experience on working as part of a research team and received positive feedback from supervisors.

AWARDS

- **BP Achievements award:** The award was given to 2 students in the department and considered the performance on the course and the quality of an essay discussing the impact of COVID-19 on the energy sector. – University of Manchester (2021).
- **2nd Award for Mathematics competition** - Hellenic Mathematical society (2019).
- **Euroscola programme participation award** - European Parliament (2019).
- **National Chemistry Competition award** - Association of Greek Chemists (2018).

POSITIONS OF RESPONSIBILITY

09/2022 –Present **University of Manchester**
Student Representative

- Presenting course feedback and suggested improvements in Teacher Review meetings twice per semester.
- Communicating with students for feedback and satisfaction levels.

09/2021 – 06/2022 **University of Manchester**
PASS Leader

- Provided meaningful advice and help with various physics concepts to a group of 1st year physics students every week and improved their academic performance.
- Maintained high attendance throughout the year by making sessions useful and engaging.

ADDITIONAL SKILLS

Programming languages: Python, R, HTML, CSS, JavaScript, Lua, basic familiarity with C++.
Analysis: OriginPro, LabVIEW, Maestro.
Typesetting: LaTeX, Microsoft Word.
Languages: Greek (fluent), English (fluent), French (basic level).

OTHER INTERESTS

• Nuclear and Particle Physics society member • Powerlifting • Live Music • Painting • Literature

References available on request