**John Morley**

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**Education**

**MSci Geophysics, Imperial College London 2018-2022**

* Predicted degree class of First Class Honours (1st).
* Final year MSci research project on “The effect of clays and frother type on froth stability” received a mark of 75%. An abstract from the research has been submitted to the largest global conference on copper “Copper 2022” in Chile (https://copper2022.cl/ ).
* Presented a lecture at the IOM3 Young Persons Lecture Competition 2022 South East regional heat titled “Increasing demand for minerals and metals for the green energy transition: a wicked problem?”.
* Applied geological knowledge learnt during field trips to Southern Spain and the Apennines.
* Passed with merit and distinction in additional Imperial Horizons courses focusing on employability skills, data analysis, historical revolutions, and visual culture.

**Awards**

* Named on the Engineering Dean’s list (top 10% for grades) for three years.
* Thermo Fisher STEM scholarship, for academic excellence, for the entirety of degree.
* Earth Science and Engineering Student Contribution Prize in 2020, for making an outstanding contribution to university life at Imperial College London.
* Institute of Quarrying National Student Award 2020, for a second-year student.
* Earth Science and Engineering Medal in 2021, for best student in mining.
* British Society of Mining Students Prize in 2021, for obtaining the highest marks in mining related modules.

**Undergraduate Research Internships**

**Database for the extraction, trade and use of sand and gravel Summer 2020**

* Collaborated with researchers to generate a universal database structure.
* Acquired a deep understanding of material lifecycles and material flow analysis.
* ***Publication*:** “A database for the extraction, trade and use of sand and gravel.” John Morley, Rupert Myers, Yves Plancherel, Pablo Brito-Parada. Published in Resources.

**Implementing geospatial mapping and uncertainty visualisation tools Summer 2021 for pollutant flow datasets**

* Awarded scholarship by Transition to Zero Pollution initiative at Imperial College London.
* Developed python code to interface with the Element Tracker software, currently under development at Imperial College London, to automatically produce visualisations of material lifecycle data using block and flow diagrams, Sankey diagrams and network diagrams.

**Sir Joseph Williamson Mathematical School, Rochester 2011-2018**

* A-Levels: Physics (A\*), Maths (A\*), Chemistry (A\*), Geography (A\*)
* GCSEs: 13 A\* - A

**Work Experience**

**Imperial College London, Research Assistant Summer 2022**

* Collaborative project between Imperial College London, the ONS and BGS to model societal flows of aggregates for England and model impacts of future changes in demand and supply.
* Liaised with industry experts to create a model system for aggregates and collect data.

**Imperial College London, Undergraduate Teaching Assistant 2021 – present**

* Provided academic support to first-year undergraduate students for the modules low-temperature geochemistry, mining geology and engineering and mechanics and waves.
* Led group discussions to further the knowledge of the students beyond the taught content.

**Burger King, Chatham, Crew Member Summer 2019**

* Prepared food in a high-pressure environment under tight time constraints.
* Answered customer queries and complaints, within protocol, in the dining area.
* Worked effectively within a team to maintain food stock while producing orders.

**Volunteering**

**St John Ambulance, Imperial Student Volunteering Unit, First Aider 2019 - present**

* Administer first aid effectively in groups under time constrained situations at large events.
* Interviewed newly enrolled vaccination volunteers during the Covid pandemic.
* Unit Manager for 2021-2022, which involves maintaining kit, caring for the wellbeing of unit members, and assisting unit members to reach their potential within the organisation.

**Commercial Liaison for Geology for Global Development (GfGD) 2021-present**

* Communicating with academics and industry experts in the field of sustainable mining.

**Interests (Clubs and Societies)**

**Imperial College First Aid Society 2018 - present**

* Elected as treasurer in 2019, responsible for writing the annual budget and purchasing essential kit for the society that required effective communication skills with suppliers.
* Elected as president in 2020, requiring strong leadership skills and management to maintain the key identity of the society while transferring from in-person to online teaching.

**Royal Air Force Air Cadets 2016 - 2020**

* Effectively worked in a team as part of the Kent Wing marching band representing at a national level at an RAF100 event in St Omer France.
* Achieved rank of corporal requiring effective leadership and time management skills to prepare and present sessions to groups of youths.

**IT Skills**

* Proficient in the use of Python.
* Competent in the use of Microsoft Office and C++.

**References available on request**