Jack **Humble**

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Per**sonal Profile**

I am a hard working, organised individual looking to pursue a future career/PhD in the field of Urban Informatics. Throughout my education and during my degree, I have had a strong interest in the insights and discoveries that can be drawn from various forms of data. This idea of data-driven science as an emerging and exciting field has attracted me to pursue it as a highly rewarding career opportunity. My personal interests lie in its application to urban problems, leading me to pursue a postgraduate degree at the "Centre of Urban Science and Progress" at King's College London, a course which focuses on core data science techniques, the theories underlying the study of cities, and ways to communicate analyses so as to affect policy making, eliciting a tangible benefit to city residents. A portfolio of my work can found at the following website: http://jacksblog.netlify.com.

Edu**cation**

King's College London
UK

MSc Urban Informatics - Centre of Urban Science and Progress, London - Distinction
2018 - 2019

- Dissertation: "Planning the Distribution of Charge Points for Electric Vehicles"
- Modules including Statistics, Programming (Python, R), Data Mining, Network Analysis and Spatial Statistics

Imperial College London
UK

BEng in Materials Science and Engineering 2:1
2013 - 2017

- Modules including Statistics, Programming (MATLAB), Biomaterials, Nanomaterials and Engineering Alloys

Nower Hill High School
UK

A Levels: Maths (A*) Further Maths (A) Physics (A) Music (B)

15 GCSEs: 3A*'s, 10A's, 2B's
2007 - 2013

- Including Mathematics, English and Science

Res**earch Experience / Projects**

MSc Dissertaion
King's College London / Westminster City Council

Planning the Distribution of Charge Points for Electric Vehicles
Mar. 2019 - Sep. 2019

- Working with local authorities and electric vehicle transaction data to evaluate the current state of the electric vehicle market.
- Using techniques from network analysis, spatial statistics, data mining/machine learning and operations research to optimise the locations of electric vehicle charge points to maximise their efficiency and facilitate the accelerating growth of the electric vehicle market in London.
- Communicate results to both technical and non technical audiences to advice policy makers and elicit a tangible benefit the the Urban Environment.
- Presented my work to a non-academic audience of policy makers and senior leaders at Westminster City Hall.

Institute of Psychiatry, Psychology and Neuroscience - IoPPN
King's College London

South London and Maudsley
Jan. 2019 - Apr. 2019

- Working with one of the largest data sets of anonymised mental health patient records in Europe (Clinical Record Interactive Search - CRIS).
- Research into the spatial relation of hospital readmission in patients with serious mental health disorders.
- Examining the effects of local area crime on serious mental health.

London Ambulance Service Data Dive
King's College London

Centre of Urban Science and Progress, London
Mar. 2019

- A week long data dive collaborating with students and researchers from some of the leading departments in Spatial Analysis and Urban Science such as the 'Centre of Urban Science and Progress' at New York University and the 'Centre for Advanced Spatial Analysis' at UCL.
- Using data provided by the London Ambulance service to build predictive models to anticipate demand, better triage incoming calls to more efficiently distribute resources and demonstrate the benefit of utilising live traffic data in the response system.
- Demonstrated ability to work within a team and present results to senior member of the London Ambulance Service.

Coursera
Coursera

Independent Study
ongoing

- Machine Learning by Stanford University (Andrew Ng).
- Data Science Specialization by John Hopkins University (Roger D. Peng). Modules including R Programming, Exploratory Data Analysis, Reproducible Research and Statistical Inference.
- Geographic Information Systems (GIS) Specialization by University of California, Davis.

Additional Work Experience

Mathematics Tutor
London

EDUCATOR
2011 - 2014

- Worked with students from KS3 to A level.
- Specialized in modules including statistics, calculus, linear algebra, mechanics and decision.
- Evaluated student's abilities to design and provide the most optimal support material.

Tennis Coach
London

PINNER WEST END LAWN TENNIS CLUB
2010 - 2013

- Responsible for coaching tennis to members from the age of 8 to 80 requiring excellent communication skills.
- Worked with both large groups and one-to-one instruction. Tailored classes as necessary.

Areas of Expertise/ Professional Skills

Skills and Independent Study

INCLUDING:

- **R (tidyverse, shiny), Python (pandas, geopandas, numpy, scikit-learn, pytorch, networkx, scipy), Javascript (D3.js), HTML, CSS, ArcGis, QGis, MATLAB, Octave, LaTeX**

- **Solidworks**

- **Microsoft Office** - Word, Excel, Powerpoint

- **Driving License** - Full, clean UK driving license

Interests and Achievements

INCLUDING:

- **Music** - Grade 8 Piano with Distinction (hired to work at several musical events)

- **Scuba Diving** - PADI Advanced Open Water Diver

Personal Skills

I am a highly driven individual who endeavours to perform every project and task to the best of my ability, whether this be for my educational activities, career or personal hobbies. I work well within a team and show great respect for all my colleagues. I thrive on challenges as it sets a platform for me to develop my skills and constantly self-improve of which place the utmost importance.

References

- References are available upon request.