William **Kane**

GRADUATE · CURRICULUM VITAE

Wrexham / Liverpool - 19/12/1996

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Summary

New graduate with a focus on mathematics, statistics, data science, and python. Looking to start a career in LOCATION. Suited to JOB roles with routes for progression. My career goal is to take responsibility for TASK at a senior or managerial level. Keen to engage, learn, and work at a fast pace.

Education

MSc(Eng) in Risk and Uncertainty
Graduate Aug 2020

UNIVERSITY OF LIVERPOOL
Sept. 2019 - Aug. 2020

- **Modules include** Modern Management, Geographic Data Science, Data Mining, Monte Carlo, Risk Analysis
- **Research project in** Agent-based modelling of mixed autonomous/human vehicles in a road network
- Other projects include training an artificial neural network to act as a surrogate model in python, and advanced Monte Carlo methods in MATLAB.
- This course built on technical knowledge of Bachelors degree and focused on a deeper understanding of key concepts. I split my focus 50:50 between data science orientated and risk orientated modules, as well as general modules on Advanced Modern Management and Project Planning. The course concluded with a three month research project in which I developed object orientated python code to simulate the effects of driverless cars mixed with normal traffic on traffic flow, and wrote up a detailed analysis of the data I generated.
- The skills developed in this degree built on what I had before while teaching me to work independently with minimal guidance, and to carefully plan and manage my ongoing projects to deliver each one on time without comprising quality. I also gained valuable technical knowledge in TOPIC to be used in the future.

BSc in Mathematics
2:1

UNIVERSITY OF LIVERPOOL
Sept. 2016 - Jun. 2019

- **Modules include** Statistics, Calculus, Modelling, Quantum Mechanics, Networks, Finance, Game Theory / Economics, Operational Research
- **Group Project** where I lead and coordinated my group to create a report on using Maple for operational research calculations.
- Throughout this course I developed sharp skills in problem solving, numerical methods, and analysis. I focused on applied modules, always learning how mathematical models can be used on important problems. Managing the high workload matured my skills in time management and self motivation key to success in the workplace.

A Levels
A*AAB

COLEG CAMBRIA YALE
Sept. 2013 - Jun. 2015

- **A Levels** Mathematics (A*), Further Mathematics (A), Physics (A), Chemistry (B)

GCSEs

DARLAND HIGH SCHOOL
Sept. 2008 - Jun. 2013

- **9 GCSEs including** English (A*), Systems and Control (A), Media Studies (A*)

Skills

Mathematics	Modelling, Statistics, Optimisation, Numerical Methods, Maple
Python	Data Science, Geo-Graphic Data Science, OOP, Jupyter, Agent-Based Modelling, Machine Learning, Data Mining
Software	Microsoft Office, LaTeX, Maple, MATLAB, RStudio, Git/GitHub with Git Bash, Docker, Ubuntu
Professional	Team Work, Project Leadership, Communication and Presentation, Time Management, Prioritisation

Experience

Soho Bar
Liverpool

BAR TENDER
Jun. 2018 - Aug. 2018

- A fast paced and customer focused job where I developed skills in hospitality which can be transferred to other situations involving solving problems on the fly to provide clients with what they expect.

KUMON
Wrexham

TUITION ASSISTANT
Sept. 2013 - OCt. 2014

- Tuition provided me an excellent opportunity to work with people and help them learn and develop their skills in maths and English. A satisfying job and one that taught me a lot about dealing with complex people and how to communicate clearly and affectively.

Achievements

2013	**Charitable Work,** Operation Christmas Child		*Wrexham*
2013	**Duke of Edinburgh's Award,** Silver		*Wrexham*
2012	**First Aid,** Basic qualification		*Wrexham*
2012	**Black Belt,** Tae-Kwon-Do		*Wrexham*

References

Dr Hongbo Ye

Master's Project Supervisor

- Hongbo.Ye@liverpool.ac.uk

Professor Ke Chen

BSc Academic Adviser

- cmchenke@liverpool.ac.uk

Professor Scott Ferson

MSc(Eng) Department head

- ferson@liverpool.ac.uk