

Nicholas Newman

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¹My Website: <https://yut4321.github.io/nnwebsite/>

EXPERIENCE

Ocean Bottle, London—Consultant Intern

July 2019 - October 2019

Worked as a consultant for a sustainable startup which funds the removal plastic bottles from the oceans. As a consultant I worked to build backend systems integrating Google Analytics and Python-Django to ensure that the brief was fulfilled.

I was the designated team leader in the project and I worked as a liaison with Ocean bottle and my team to coordinate strategy.

Newman & Associates, London— Intern

June 2010 - 2017

Aged 14, I worked for my family's surveying company until I left for university in September 2017. This work was physical, practical and social, including using a variety of tools and machinery on projects and regular contracts. Other aspects included customer liaison, promotion of the company and office work.

On site dealing and understanding issues with building control. Experience with admin in the company's office with Excel, taking phone calls from potential clients and advising clients on court cases. Experience dealing with clients and selling technical concepts to them. A good grasp of engineering practicality and viability of objects, loading stresses and other technicalities.

Private Tutor, London— Maths/Science Speciality

October 2016 - Present

- Tutoring 10 sixth formers in Mathematics, achieving on average one grade band improvement on predicted or previous grades
- Maintaining positive relationships with parents to retain business and generate word of mouth, explaining hard concepts to parents with limited knowledge of maths
- Engaging new clients using a range of online platforms including Tutora, TutorHunt, and TutorFair.

EDUCATION

UCL, London— MSc Mathematics, 2:1 first year, 2:1 second year

September 2017 - June 2021

Jewish Society - Vice President

September 2018-Present

Managing the funds of the society and coordinating events. Negotiating deals with suppliers and the funding bodies of the society, acting as a liaison with all the committee members and dealing with Senior University officials, such as the Provost (Head of UCL).

Encouraging new participation and debate within the society. Challenging existing orthodoxies, whilst maintaining cohesion amongst its members.

SKILLS

Python, with knowledge of *matplotlib*, *numpy*, *pandas* and *scipy* libraries

Proficient in Excel

Numerical analysis knowledge and Linear Algebra skills

Team leader, led many projects from maths, programming projects involving teamwork as well.

Octave for *Machine learning*, currently taking a course by Andrew Ng in Coursera, which is one of the premier machine learning courses around

AWARDS

Grade 3 piano

Best Rugby player award, twice in a row

LANGUAGES

English
Native level
Spanish
Intermediate level

¹ Please see website for more information

Dulwich College, South London— GCSE/A-Levels

September 2010- June 2016

A-Level Grades: A* A* A C, for Further Maths, Maths, Chemistry, Physics respectively.

GCSE Grades: A*'s for Maths and Art, A for Religious studies and Double Award Science, B for History and English literature, C for English language. Prefect out of a year of 200, responsible for the library and lower school.

PROJECTS

Web design projects with HTML, CSS, Bootstrap and Javascript.²

Roulette modelling: Modelled using python and matplotlib to analyse results from different betting strategies. Modelled various scenarios and plotted them to get a better idea of what can happen and to improve the odds in casino gambling.

Stochastic Process Modelling: Modelled the possible permutations of the stochastic process, using the tools available during a summer project to predict different movements, with different drift and diffusion coefficients.

$$dX(t) = \mu(t) dt + \sigma(t) dB(t);$$
$$Y(t) = \int_0^t X(s) dB(s)$$

Numerical Analysis: Numerical analysis projects involve estimating condition number of a matrix, imposing Newton-Cotes quadrature rule and computing householder reflectors for QR-decomposition.

² See Github account with web design projects for more information, <https://github.com/yut4321>