

# Nicholas Newman

25 Fernwood Avenue  
London, SW16 1RD  
**07906369203**  
[nickdfn@gmail.com](mailto:nickdfn@gmail.com)

## EXPERIENCE

### 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*

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.

### Dulwich College, South London — *GCSE/A-Levels*

September 2010 - June 2016

Prefect of a year of 200, responsible for the library and lower school.

## PROJECTS

Roulette modelling — *Independent project*

Modelled the possible the possible permutations of the stochastic process using the equations, using the tools to predict different strategies.

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

$$dX(t) = \mu(t) dt + \sigma(t) dB(t);$$

$$Y(t) = \int_0^t X(s) dB(s)$$

## SKILLS

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

*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.

Proficient in Excel

## AWARDS

Grade 3 piano

Best Rugby player award, twice in a row

## LANGUAGES

English  
Native level  
Spanish  
Intermediate level