

George Newton

Gravesend, Kent

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Education

University of Warwick

MMath, Mathematics

Coventry, Warwickshire

Sep 2024 – Jun 2028

- First year grade: 1st Class (80.0%).
- Relevant second-year modules: Stochastic Processes, Finance in Practice, Mathematical Statistics, Games and Decisions.

Sir Joseph Williamson's Mathematical School

A-Levels: 5 A (Mathematics, Further Mathematics, Physics, Computer Science, EPQ)*

Rochester, Kent

Sep 2017 – Jun 2024

- 11 GCSEs at grade 9.
- **Awards:** Global Champion (GSS 2023 Virtual Math Olympiad).
 - Placed 1st out of 1000+ global participants.

Work Experience

Extra Tuition Centre

Private Tutor

Gravesend, Kent

Oct 2022 – Present

- Deconstructed complex A-Level mathematical concepts, including calculus and statistics, into manageable lessons for 8+ students, resulting in student grade improvements of 1-4 levels.
- Delivered over 630 hours of one-to-one lessons achieving a 90%+ client retention rate each academic year through effective communication and tailored progress reports.

Solirius Consulting

Software Development Intern

Aldgate, London

Jul 2023

- Identified and resolved 3+ critical bugs in the development of an internal Java-based software developer ticketing system.

Projects

Black-Scholes Derivation and Implementation

Sep 2025

- Derived the Black-Scholes PDE from first principles, applying Itô's Lemma within a delta-hedging framework to construct a risk-free portfolio.
- Implemented the analytical formula in Python and independently validated its pricing accuracy against a custom-built Monte Carlo simulation.
- Analysed the model's risk profile and parameter sensitivity by calculating and visualizing the option 'Greeks' (Delta, Vega, Theta).

Other Experience

Cambria Sea Scouts

Leader and RYA Accredited Senior Dinghy Instructor

Greenhithe, Kent

Feb 2022 – Present

- Executed dynamic risk assessments in high-pressure, unpredictable environments, successfully leading 30+ sailing sessions annually for groups of up to 12 young people.
- **Awards:** King's Scout Award, Duke of Edinburgh Gold Award.

Camps Baco & Che-Na-Wah

Waterfront Counsellor

Minerva, New York

Jun 2024 – Aug 2024

- Collaborated with a globally diverse team to ensure readiness for over 100 campers daily.
- Proactively delivered skill development programmes for sailors of varied abilities.

Skills

- **Programming Languages:** Python, Java, R, SQL, \LaTeX
- **Relevant Libraries:** Pandas, NumPy