

# Oskar John Hollinsworth

## Curriculum Vitae

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## About Me

I am currently studying undergraduate Mathematics at **Trinity College, Cambridge**. I intend to specialise in statistics in order to gain a deep understanding of the most applicable areas of mathematics. I also love using computer programming to solve problems efficiently.

I am much more well-rounded as a student than most of my peers in scientific subjects. I enjoy public speaking, especially debating, which I can engage in through the Cambridge Union. I have developed my social and interpersonal skills while looking after those in need of First Aid. I help to raise money for data-backed charities which involves a great deal of teamwork and planning. I tend to be able to communicate mathematical and scientific concepts better than most too, having worked as a maths tutor for many years. I also rely on this ability twice a week when I have to write out solutions to problem sheets and defend them in an interview with a Cambridge academic.

## Experience

### Vocational

2011-2013 **Private Maths Tutor.**

Tutor in Mathematics to GCSE grade. £15/hour for home tuition

2013-2014 **School Maths Buddy.**

Official weekly tuition organised by the school in AS-level Core Mathematics for Year 12 students

2013 **Financial Director, *Young Enterprise*.**

On the board of directors of a clothing brand start-up as part of an international competition between schools

2014 **AIG Science Team at the European Headquarters.**

I shadowed the Quantitative Analysts, Quantitative Developers and Data Scientists who use statistics to optimise the selection process of the most profitable Broker Distribution Managers

2016 **Centre for Pathogen Evolution, *Zoology Department*, Cambridge University.**

I did original research in the linear regression of antigenic distance from amino acid substitution data

### Miscellaneous

2008-2013 **Learning Resources Centre Officer.**

Allocated the booking of school computers and books

2011-2012 **Student Officer.**

School prefect assisting primarily at Open Evenings for parents

2013-2014 **Learning Resources Centre Co-ordinator.**

More senior managerial role leading a team of officers in managing school facilities

2015-2016 **First Aider, *St John's Ambulance*.**

I help to provide First Aid cover for various events in Cambridge

2016- **Digital Content Officer, *Giving What We Can*, 80000 hours.**

I manage eacambridge.org and edit videos from speaker events.

## Qualifications

- 11 A\* grades and 1 A grade at GCSE
- 7 A grades at AS level
- 3 A\* grades in Mathematics, Further Mathematics and Physics at A2 level
- S1S in STEP (Sixth Term Examination Papers)

2015 **STEP I**, S (Outstanding).  
Cambridge Entrance Paper

2015 **STEP II**, 1 (Very Good).  
Cambridge Entrance Paper

2015 **STEP III**, S (Outstanding).  
Cambridge Entrance Paper

2015 **Mathematics**, A\*.  
A Level

2015 **Further Mathematics**, A\*.  
A Level

2015 **Physics**, A\*.  
A Level

2014 **Chemistry**, A.  
AS level

2014 **History**, A.  
AS level

2014 **Critical Thinking**, A.  
AS level

2013 **Religious Studies**, A.  
AS Level

## Extended Project

title What are the limits of mathematics?

description I wrote a dissertation discussing the philosophical implications of certain surprising results in Mathematical Logic. I also gave an accompanying presentation where I had to explain the central ideas to a general audience.

URL [https://drive.google.com/file/d/0Bwsr26lgla\\_6TWhGSXdhMHRiNk0/view?usp=sharing](https://drive.google.com/file/d/0Bwsr26lgla_6TWhGSXdhMHRiNk0/view?usp=sharing)

grade A

## Accolades

NB: My school gave out only **one prize** for each subject/category each year **out of 300 students** along with only a couple of awards.

Year 7 **Outstanding Student of the Year**, *Special Category Prize*.  
**Mathematics**, *Subject Prize*.  
**Progress in P.E.**, *Award*.  
**Progress in History**, *Award*.  
**Contribution to School Community**, *Award*.

Year 8 **Science**, *Subject Prize*.  
**History**, *Subject Prize*.  
**Religious Studies**, *Subject Prize*.  
**Progress in Drama**, *Award*.  
**Progress in Technology**, *Award*.  
**Contribution to School Community**, *Award*.  
**Gold Junior Maths Challenge**, *Certificate*.  
**World Maths Day**, *91st in the world*.  
**Problem Solving Journal**, *Solution cited*.

Year 9 **Chemistry**, *Chosen to perform practical demonstrations for prospective students and parents*.  
**School Spokesperson**, *Awards Evening*.  
**Team Maths Challenge**, *UKMT*.  
**Mathematics**, *Subject Prize*.  
**Progress in History**, *Award*.

**Progress in Spanish**, *Award*.

Year 10 **History**, *Subject Prize*.  
**Spanish**, *Subject Prize*.  
**Religious Studies**, *Subject Prize*.  
**English Literature**, *Award*.

Year 11 **ESU London Debate Challenge**, *School Team*.  
**ESU Public Speaking Competition**, *Questioner at regional schools heat*.  
**Excellent Academic Attainment on report**, *Gold Certificate*.

Year 12 **Gold in Senior Maths Challenge**, *Best in Year*.  
**Whole school Debating Competition**, *Semi-finals*.  
**MACE debating competition**, *London Finals*.  
**Outstanding all round achievement at GCSE**, *Award*.  
**Student of the Month**, *Award*.

Year 13 **Gave practical demonstration of gyroscopes**, *Science Week*.  
**Runner up, ESU MACE London Final**.  
**Mathematics**, *Award*.

## Markup and Programming Languages

Python Basic proficiency

HTML Some experience

CSS Some experience

$\text{\LaTeX}$  Basic proficiency

JavaScript Some experience

C++ Some experience