

PEMBROKE TUTORS

Jacob

Over the last seven years I have gained significant experience in professional one-to-one tuition in school and university entrance examinations. I aim to produce focused and stimulating lessons and enjoy watching my students thrive in this environment.

Education

Expected; Oct 17 – Jan 21 **PhD candidate at Imperial College, London**
I shall be undertaking research in computational condensed matter theory – specifically looking at non-silicon based solar devices.

Sep 2013 – Jun 2017 **MSci in Physics, King’s College, London**
Grade: First Class with Honours
Scores in summer examinations
Year 1: Passed with Merit
Year 2: Passed with Merit
Year 3: Passed with Merit and ranked in the top 3 out of 100 students

Sep 2006 – Jun 2013 **Queen Elizabeth’s Grammar School, Horncastle**
A levels: 3 A*s – Mathematics, Further Mathematics, Physics
GCSEs: 5 A*s in Mathematics, English Literature, Chemistry, Physics, Biology and 6 As in German, History, Geography, Design and Technology, Business and Economics and English Language

Tuition History

I have offered tuition services over the last seven years, and have significant experience in the following areas:

- i. 7 / 8+: English, Mathematics
- ii. Pre-Test (including ISEB Common Pre-Tests) / 11+: VR and Non-VR, Mathematics, English
- iii. 13+: Mathematics, English, Chemistry, Biology, Physics
- iv. GCSE: Mathematics, English, Chemistry, Biology, Physics
- v. A Level: Mathematics, Further Mathematics and Physics
- vi. Supporting Oxbridge Physics/Maths applications (Admission tests)

My approach to tutoring builds upon my experience that students are more regularly held back by a lack of confidence or motivation than by a lack of ability. In large classrooms and lecture halls the absence of understanding is often missed and a student’s dismay at a topic only gets multiplied. I recognise that the time which I spend with each student is only a fraction of the time which they spend learning and therefore aim to equip students with the skills necessary to take full advantage of their primary mode of education. For example, whilst spending time addressing exam technique, my tutees are not taught to merely pass exams, but to completely understand the material following a How? Why? What for? approach, ensuring that I am building upon the tutees natural curiosity and harboring new areas of interest within topics. Though my approach is unique to each student, I aim to utilise these techniques to manifest in each student the motivation and confidence which shall allow each student to unlock their full potential.

Employment History

Work Experience:

Nov 16 – June 16 **Pembroke Tutors:**
Tutoring children from ages 6-18. This role improved my ability to structure lessons for younger students and built upon previous techniques for keeping students engaged and learning.

March 13 – Sep 14 **Tattershall Lakes Country Park, Lifeguard and Activity Leader:**
Lifeguarding the pool and surrounding areas; ensuring that all areas are compliant with Health and Safety law. As an activity leader I lead groups of all ages through a myriad of activities – ensuring everyone was both involved and entertained.

Achievements

- Sep 2016** **Gordon Rogers Scholarship**
The Gordon Rogers Scholarships are awarded to the five best performing second year students and third year MSci Physics students at King's College, London. The scholarship is awarded on academic merit.
- January 2017** **President's PhD Scholarship**
Awarded the highly selective President's Scholarship funding for the PhD which I shall start in October.
- Sep 2016 – Apr 2017** **Computing:**
During my fourth year project I scripted a programme to complete a novel data comparison between images of different resolutions. This work is currently in the review stage of publishing.
- 2013 – 2017** **Public Speaking**
Through university projects I have presented a number of research presentations, singularly and as part of a group and was awarded second place in a poster presentation which I gave to the full physics department on my third year project.
- 2013** **Young Enterprise Charity Leader**
As part of a charity-led business project I was managing director of an events company, Roulette, which utilised QR codes as a means of publicising company activity. Though business has now closed for Roulette, I managed to give shareholders a 1000% return on their initial investment.
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Interests

In spend a large proportion of my spare time engaging with the renewable energy sector, be that through policy research with King's Think Tank, computational research at the National Physical Laboratory or academic and industrial conferences. My personal interests revolve around philosophy, cosmology, computing, theatre, modern art, tennis, swimming and country sports.

References

Available on request.