

Sebastian Gorgon

sebastian.gorgon.15@ucl.ac.uk

<https://sebgorgon.github.io>

EDUCATION

University College London

September 2015 - ongoing

BSc Chemical Physics

expected completion June 2019

First year average of 90%, Second year average of 80%

Christopher Ingold Prize for outstanding academic achievement (2016)

Dulwich College, London

September 2014 - July 2015

Full academic scholarship

A-Levels: A* A* A* A* in Mathematics, Further Mathematics, Chemistry, Physics

RESEARCH EXPERIENCE

Rutherford Appleton Laboratory, Oxfordshire

September 2017 - August 2018

ULTRA Group, Central Laser Facility, STFC

Sandwich Student placement

- Development of a new nanosecond Transient Infrared Absorption Multiple Probe Spectrometer based on YAG and Quantum Cascade Lasers.
- Study of heat generation in capped gold nanoparticles and charge dynamics in organic photovoltaics.
- Programming of 2D-IR spectral diffusion analysis software.

Imperial College London

August - September 2017

Dr Bakulin Lab, Ultrafast Optoelectronics Group, Department of Chemistry

- Designed and built a picosecond Kerr-gated photoluminescence spectrometer.

University College London

June - August 2017

Dr Clarke Lab, Department of Chemistry

EPSRC Vacation Bursary

Shortlisted as a Top 5 Report and presented at Best Project Afternoon

- Transient Absorption Spectroscopy study of bimolecular recombination in ambipolar organic photovoltaics.

Kyoto University, Japan

June - August 2016

Prof. Abe Lab, Department of Energy and Hydrocarbon Chemistry

Amgen Foundation Scholarship

Distinction at the Poster session of the Amgen Japan Symposium

- Mechanistic study of partial oxidation of alcohols by water splitting photocatalysts.

Weizmann Institute of Science, Rehovot, Israel

June - July 2015

Prof. Joselevich Lab, Department of Materials and Interfaces

International Summer Science Institute; Weizmann UK Scholarship

- Synthesis and characterisation of core-shell ZnSe/ZnTe nanowires.

SKILLS

Programming Languages: LabVIEW (Certified Associate Developer), Python, Matlab

Laboratory Experience: Ultrafast laser spectroscopy, clean room nanodevice fabrication, organic synthesis

Safety Training: Class 4 Lasers, Cryogenics, COSHH and Risk Assessment, Fire Safety, First Aid