

Markus Artelsmair

Curriculum Vitae

Education

- 2015–2016 **MPhil Chemistry - University of Cambridge**, Supervised by Prof. Oren Scherman.
- 2012–2015 **BSc Chemistry - Imperial College London**, *First Class Honours*, graduated with overall grade: 82.0%.
- BSc Project with Prof. Ed Tate**
- 2014 **Synthesis of RU-SKI Derivatives for the Inhibition of Hedgehog Acyltransferase.**
- 2005–2012 **European School Munich, Germany**, *European Baccalaureate*, graduated with overall grade: 93.4%.

Work Experience

- Summer 2015 11 week research internship at Wacker Chemie AG in Munich, Germany.
- Synthesised a variety of polymers
 - Spin coating on glass and copper surfaces as well as silicon wafers
- Summer 2014 8 week UROP placement in computational biological chemistry with Prof. Sophia Yaliraki at Imperial College London, UK.
- Investigated the structure and functionality of the major light harvesting complex (LHC II) in Photosystem II through computational analysis
 - Determined regions of interest in the protein complex via a community structure partition based on a new Markov stability method
- Summer 2013 Lifeguard at an outdoor pool facility in Munich, Germany (Stadtwerke München).
- Supervised customers and made them familiar with safety instructions
 - Working times frequently exceeded 60 hours per week
- June 2010 Intern at the Max-Planck Institute for Intellectual Property, Competition and Tax Law in Munich, Germany.
- Expanded my knowledge in the field of intellectual property
 - Enhanced my analytical skills by studying scientific and technical documents

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Awards

- 2015 **Departmental Prize for Outstanding Overall Achievement.**
- 2015 **BP Dean's Award** (£1500) in recognition of my academic achievements and the contribution made to university life outside my studies.
- 2014 **Margaret Goodgame UROP Prize** for academic excellence.

Languages

German	<i>Native language</i>
English	<i>Bilingual proficiency</i>
French	<i>Very good</i>
Italian	<i>Basic knowledge</i>
Spanish	<i>Basic knowledge</i>
Latin	

Research and IT Skills

- Versed in powerful synthetic techniques including the preparation of small molecules, metal complexes and polymers
- Used to working under inert atmospheres and operating a Schlenk line
- Experienced in means of purification such as chromatography, distillation, recrystallization, sublimation and extraction procedures
- Practiced in numerous characterisation methods including 1D and 2D NMR, UV-Vis and FT-IR spectroscopy, mass spectrometry (HRMS, LCMS) and ITC.

- Adept in MS Office, using Excel, Word and PowerPoint
- Well instructed in programs such as ChemBio3D, Chemdoodle, MestReNova, PyMOL and MATLAB that provide useful modelling and visualisation tools
- Proficient in HTML

Interests

- Competitive swimmer, contended against other universities at regional and national level
- Dedicated runner and cyclist. Completed two half marathons, finishing the Oxford Half Marathon 2015 in under 1 h and 30 min
- Elected as the Vice-President of ChemSoc, a student society at Imperial College
- Trained Lifeguard and First Aider

References

- Prof. Oren Scherman, oas23@cam.ac.uk, University of Cambridge
- Prof. Ed Tate, e.tate@imperial.ac.uk, Imperial College London
- Prof. Donald Craig, d.craig@imperial.ac.uk, Imperial College London

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