

Camiel Leake

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I am a highly motivated final-year MChem Student at the university of St Andrews. I have recently joined the Goss group as part of my final year research project where I have been utilising a bioinformatics approach to discover new flavin dependent halogenases. Between 2019 and 2020 I completed a 12 month long industrial placement at Roche Basel where I worked on two different projects and gained invaluable synthetic skills as well as a deeper and broader understanding of organic synthesis. I am currently motivated and looking for PhD positions with an emphasis on organic synthesis with applications to medicinal chemistry and biology.

Education

MChem Master in Chemistry, University of St Andrews, UK

2017-2021 (Anticipated First Class Honours)

International Baccalaureate, Antwerp International School

2015-2017

41/45 with higher levels including Chemistry (7/7), Physics (7/7) and Dutch Language and Literature (6/7), awarded valedictorian and prizes for best performance in both Chemistry and Physics.

Previous Employment Record

In addition to the odd job here or there such as being a gardener I have gained professional experience in Chemistry during my undergraduate degree

Roche Internship in Medicinal Chemistry (RiCH), Basel Switzerland

2019-2020

Did organic synthesis for medicinal chemistry during this highly competitive placement

- Synthesized time-critical chemical probe which is currently used to set up assay conditions for upcoming clinical trials
- Aided drug design and synthesised novel biologically active compounds with sub-nanomolar activity contributing to the project's SAR
- Developed skills using microwave and photochemical reactors as well as working on milligram scales, analysing biological data and designing accordingly lastly developed further skills in compound characterisation through ^1H NMR, ^{13}C NMR, 2D NMR, LCMS and was introduced to HPLC
- Presented research during project meetings as well as participating in a department wide poster presentation
- Attended a range of external speakers at Roche (Professor Hartwig and Professor Dixon to name two), the University of Basel (Professor Vilgis) and at ETH Zurich (Professor Toste)
- Kept and maintained a detailed and organised electronic lab notebook

University of Gent, Professor Dirk Elewaut

July-August 2018

Worked in an immunology lab for a month shadowing a PDRA researching lipid extraction of cells under ER stress. Gaining skills in ELISA and chromatography leading to a newfound appreciation of biology

Awards and Honours

School of Chemistry, University of St Andrews

F. D. Gunstone Prize for best performance in third year organic chemistry (2019)

GSK Prize for academic excellence in level 2000 chemistry (2018)

Dean's list awarded for "academic excellence" (2017-2018 and 2018-2019)

Parkour Club, University of St Andrews

Most improved returner (2018-2019)

Highlighted Skills and Knowledge

- **Organic Chemistry: Synthesis** multi step organic synthesis, inert-atmosphere chemical manipulation, microwave reactions, photoredox reactors. **Purification** automated and manual flash chromatography and introduced to HPLC. **Analysis** NMR, IR, UV-vis, MS and LCMS Interpretation software: Mestrenova and ACD Labs
- **Chemistry Other:** brief experience in computational chemistry using Gaussian
- **Management Skills:** excellent team worker and experienced in leadership and committee management; self-motivated and constantly working on self-improvement, fantastic interpersonal and communication skills
- **Languages:** Dutch mother-tongue (bilingual), English first language (bilingual)

Administrative Experience/Teaching

Teaching experience

2017-2019 RSC ChemBus Outreach Demonstrator

Administrative experience

2020-2021 School President of Chemistry, University of St Andrews

2020-2021 Vice-President of the Chemical Society, University of St Andrews

2020-2021 Local Committee member Scottish Health & Innovation Network for Entrepreneurship

2019-2020 Class Representative for placement students, University of St Andrews

2019 Head of Marketing for the Comedy Society's Ball, "Bargain Ball", University of St Andrews

2018-2019 Treasurer and founding member of the Chess Society, University of St Andrews