

Chad H. G. Allen

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EDUCATION

- 2012–15, 2017– PhD in Chemistry – University of Cambridge (submission expected Q3 2018)**
Funded by the European Chemical Industry Council's Long-Range Research Initiative
Research overview: improving toxicity prediction using heterogeneous data
- Applied machine learning methods to derive models for predicting the toxicity of molecules
 - Demonstrated that predictive models which utilise chemical, target, and phenotypic information outperform traditional equivalents (cf Allen et al, Toxicol Res, 2016, **5**, 883)
- Skills developed or acquired***
- Exploration, analysis, visualisation, and interpretation of complex heterogeneous data
 - Programming and data science ability, including proficiency with Python, R, Bash and git
 - Communicating complex concepts and results through presentations and written reports
- NB sabbatical leave taken Dec 2015–Sep 2017 to serve as President of the Graduate Union*
- 2008–12 MSci & BA in Natural Sciences – University of Cambridge**
Awarded Ogden Trust Undergraduate Scholarship for scientific ability
- Class II.1 in Part III (final year) Chemistry, including 78% for a dissertation on a 6-month research project which resulted in a publication (cf Grethe et al, J Cheminf, 2013; **5**:45)
- 2001–08 Leicester Grammar School**
Awarded full Ogden Trust Scholarship for academic ability
- Grade A in 4 A Levels and 1 AS Level, "Merit" in Chemistry Advanced Extension Award

EMPLOYMENT

- 2015-17 President (full-time) – Cambridge University Graduate Union (GU)**
Elected twice by postgraduate community: first in a by-election, then for a full-year term
- Responsibilities***
- Served as a trustee of the University of Cambridge, and a member of the Council, its principal executive and policy-making body with responsibility for finance, compliance etc.
 - Represented postgraduates on over 30 committees, on wide variety of issues including course rubric, TEF submission, sexual misconduct policies, the Prevent duty, etc.
 - Line-managed 2 employees, ensuring their performance, development, and well-being
 - Liaised with 31 College unions to maintain confidence and ensure quality representation
 - Accountable to University and Charity Commission for GU's democracy, budget, financial performance, and compliance as chair of GU trustees and its principle financial officer
- Achievements***
- Successfully convinced the University to maintain an independent GU, having taken office during a review into whether the GU, following several difficult years, should be shut down and merged into Cambridge University Students' Union (CUSU)
 - Negotiated and agreed MoU between GU and CUSU, enshrining independence and co-operation between two unions and establishing third-party mediation mechanism
 - Re-engaged constituent College unions, achieving highest-ever affiliation fee payment
 - Incepted and delivered GU's first professional rebrand
 - Established office of Vice-President, giving GU second full-time student officer for first time
- Skills developed or acquired***
- Developing and championing policy positions within a complex regulatory framework
 - Management and leadership of a small team of employees and larger team of volunteers
 - Strategic decision-making within a time- and resource-constrained small organisation
 - Interpersonal communication, negotiation and persuasion, and representational advocacy
 - Formal committee skills, including committee servicing as chair or secretary
 - Time management and prioritisation, comfortable working in high-pressure environment
 - Financial and commercial literacy, both as an executive officer and as a scrutiniser

2012-15 Supervisor and exam invigilator (part-time) – King’s College, Cambridge

- Delivered 2-6hrs small-group undergraduate teaching per week in term time
- Invigilated final undergraduate exams for students with specific access arrangements

EXPERIENCE

2013-17 Various offices – King’s College Graduate Society (KCGS)**2017 Chair**

- Interpreted and enforced KCGS’s rules, chaired committee and general meetings

2015 Graduate Bar Manager

- Responsible for operation of student bar, including staff, stock, finances, compliance, etc.

2015 Domus (accommodation) Officer

- Part of panel selecting among architects’ designs for new postgrad accommodation

2014 President

- Served on the College’s Council (trustee board) and as a member of its Governing Body
- Held general responsibility for representation of postgrad student body, activities of KCGS (annual budget c £7k), and managing/supporting team of student officers
- Negotiated and agreed new scheme for distributing College funding among societies

2013 Junior Treasurer

- Scrutinised cost centres and compiled budget as member of College finance committee
- Liaised with historical treasurers via alumni office to recover funds trapped in frozen deposit account, then invested these to provide income for KCGS via College endowment
- Responsible to membership and College for KCGS’s budgeting and bookkeeping

2009-12 Various offices – King’s College Student Union (KCSU)**2010-11 President**

- Similar general responsibilities as for presidency of KCGS, but for the undergrad body
- Oversaw successful campaign for rent rebates to students disrupted by building work
- Redrafted entire constitution to comply with transition to charitable status

2009-10 Welfare & Academic Affairs Officer

- Informed, supported, directed and advised students with personal or academic difficulties

2007-09 Summer research programmes – University of Leicester**2009 Summer Undergraduate Research Experience (SURE) programme**

- Reduced raw telescopic exposures into new database of research-suitable star spectra

2007 Nuffield Science Bursary programme

- Derived a velocity dispersion profile for the Sextans galaxy starting from raw telescopic exposures, and used this to determine the galaxy’s dark-matter content by mass

FURTHER SKILLS AND QUALIFICATIONS

- Proficient user the Microsoft Office suite, LaTeX, and various website content management systems
- Undertaken various PPD training courses on trusteeship, line management, charity governance etc.

REFEREES

Available on request