

Edward O Cannon

- CONTACT INFORMATION** Unilever Centre for Molecular Informatics +44 (0) 7790781312
Chemistry Department, eoc21@cam.ac.uk
Cambridge University, CB2 1EW, UK <http://chemoinformatician.co.uk>
- RESEARCH INTERESTS** Chemo/Bioinformatics, machine learning, the semantic web, webservices, mashups, AJAX technologies and ontology development.
- EDUCATION**
- University of Cambridge**
Postdoctoral Research Associate - Polymer Informatics (Jul. 2008 - Jun. 2010)
- *Developing polymer ontologies and webservices for the Dutch Polymer Institute.*
- PhD - Chemoinformatics (Oct. 2005 - Jun. 2008)*
- *Thesis: Chemical Informatics of Banned Substances. Used machine learning and data mining techniques to classify and virtual screen chemical substances taken from the World Anti-Doping Agency's Prohibited List.*
- University of Sheffield**
MSc - Chemoinformatics (Sep. 2004 - Sep. 2005)
- *Thesis: A novel circular substructure fingerprint for virtual screening using multiple bioactive reference structures.*
- University of York**
MChem - Chemistry (Oct. 2000 - Jul. 2004)
- *1st class honours.*
- WORK EXPERIENCE**
- Novartis Pharmaceuticals**
Summer Placement (Jun. 2005 - Aug. 2005)
- *Three month placement using Pipeline Pilot, R and Spotfire to develop a novel circular substructure fingerprint for virtual screening using multiple bioactive reference structures.*
- Lubrizol Ltd.**
Research Placement (Jul. 2003 - Jul. 2004)
- *One year research placement synthesising block copolymers by atom transfer radical polymerisation for use as pigment dispersants in automotive coats.*
- COMPUTER SKILLS**
- **Languages:** Python, R and Latex (Fluent), Java and shell scripting (Good), Perl, C++, C# (Working knowledge).
 - **Operating Systems:** Windows, UNIX and Linux.
 - **Software Packages:** MOE, Pipeline Pilot, Spotfire, Sybyl and Eclipse.
 - **Internet:** Dreamweaver 2004 MX, HTML, Javascript and Php.
- POSITIONS OF RESPONSIBILITY**
- *2007-2008: Chemical Informatics Demonstrator.*
 - *2007-2008: Webmaster - Queens' College Cambridge.*
 - *2007-2008: Reviewer - Journal of Computer Aided Molecular Design, Journal of Chemical Information and Modeling and the Journal of Current Medicinal Chemistry.*
 - *2006-2007: Entertainment Officer - Queens' College Cambridge.*
 - *2002-2003: Treasurer - University of York Swimming and Waterpolo Club.*
- INTERESTS**
- *Member of the Cambridge University Salsa Dance Team. I enjoy going swimming and working out down the gym.*

PUBLICATIONS

- Adams, N.; Cannon, E. O. and Murray-Rust, P. (2009). ChemAxiom An Ontological Framework for Chemistry in Science. In *Proceedings of the International Conference on Biomedical Ontologies*
- Colas et al. (2009). A Subtype Discovery Methodology as a R Package with Use Case on Chemoinformatics Data. In *IEEE-EMBC'08*.
- Cannon et al. (2008). A Novel Hybrid Ultrafast Shape Descriptor Method for use in Virtual Screening. In *Chemistry Central*, Vol: 2:3.
- Cannon (2008). PhD thesis: Chemical Informatics of Prohibited Substances.
- Cannon et al. (2007). Support Vector Inductive Logic Programming Outperforms the Naive Bayes Classifier and Inductive Logic Programming for the Classification of Bioactive Chemical Compounds. In *Journal of Computer-Aided Molecular Design*, Vol: 21, pp. 269-280.
- Cannon et al. (2006). Classifying the World Anti-Doping Agency's 2005 Prohibited List Using the Chemistry Development Kit Fingerprint. In *Lecture Notes in Bioinformatics*, Vol: 4216, pp. 173-182.
- Cannon et al. (2006). Chemoinformatics-based Classification of Prohibited Substances Employed for Doping in Sport. In *Journal of Chemical Information and Modeling*, Vol: 46, pp. 2359-2380.
- Bender, A.; Jenkins, J. L.; Ki, Q.; Adams, S. E.; Cannon, E. O. & Glen, R. C. (2006). Molecular Similarity: Advances in Methods, Applications and Validations in Virtual Screening and QSAR. In *Annual Report of Computational Chemistry*, Vol: 2, pp. 145-173.

REFEREES

Available on request.