

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, webservice, mashups, AJAX technologies and ontology development.
- EDUCATION**
- University of Cambridge**
Postdoctoral Research Associate - Polymer Informatics (Jul. 2008 - Jun. 2010)
- *Developing polymer ontologies and webservice 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.