
Dr. Brian Harrington

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Academic Employment

Lecturer

Oxford, United Kingdom

Oxford University Computing Laboratory

October 2010 - Present

- Lecture Information Retrieval MSc. level course
- Conduct classes and practical programming sessions for undergraduate and MSc. level courses.
- Grade and review homework assignments in preparation for examinations.

Research Fellow and Tutor

Oxford, United Kingdom

Keble College, Oxford

October 2008 - Present

- Currently conducting research into large scale knowledge extraction and integration.
- Responsible for the tuition of undergraduate students. Including tutoring and exam preparation.
- Hold tutorials in a variety of undergraduate classes including: Logic & Proof, Imperative Programming, Object Oriented Programming Networks and Operating Systems and Discrete Mathematics
- Organise seminar series for undergraduate mathematical, physical and life science students.

Education

Oxford University

Oxford, United Kingdom

D.Phil in Computer Science

May 2009

- Doctoral Thesis: ASKNet: Automatically Creating Semantic Knowledge Networks from Natural Language Text
- Developed ASKNet software for automatically extracting knowledge from natural language text and representing that knowledge in a semantic network using artificial intelligence techniques.

Oxford University

Oxford, United Kingdom

MSc. in Computer Science

September 2005

- Masters Dissertation: Information Extraction in the Biological Domain.
- Completed courses in Information Retrieval, Computational Linguistics and Intelligent Systems.

University of Toronto

Toronto, Canada

Honours BSc. in Computer Science

May 2004

- Graduated with high distinction (GPA of 3.86/4) from Software Engineering specialist program.
- Received Minor Degree in Psychology.

Presentations & Publications

Journal Papers

- Harrington B. & Clark S. ASKNet: Creating and Evaluating Large Scale Integrated Semantic Networks. *International Journal of Semantic Computing*. Volume 2, Issue 3. February 2009.

Conference Papers

- Brian Harrington. A Semantic Network Approach to Measuring Relatedness. Proceedings of the 23rd International Conference on Computational Linguistics (COLING 2010), Beijing China, 2010.
- Brian Harrington. Managing Uncertainty, Importance and Differing World-Views in ASKNet Semantic Networks. Proceedings of the fourth IEEE International Conference on Semantic Computing, Pittsburgh USA, 2010.
- Pia-Ramona Wojtinnik, Brian Harrington, Sebastian Rudolph & Stephen Pulman. Conceptual Knowledge Acquisition Using Automatically Generated Large-Scale Semantic Networks. Proceedings of the 18th International Conference on Conceptual Structures, Kuching, Sarawak, Malaysia, 2010

- Harrington B. & Clark S. ASKNet: Creating and Evaluating Large Scale Integrated Semantic Networks. Proceedings of the Second IEEE International Conference on Semantic Computing (IEEE-ICSC2008), Santa Clara, USA, 2008.
- Harrington B. & Clark S. ASKNet: Automated Semantic Knowledge Network. Proceedings of the Twenty-Second Conference on Artificial Intelligence (AAAI-07), Vancouver, Canada, 2007.

Dissertations/Theses

- D.Phil Thesis: ASKNet: Automatically Creating Semantic Knowledge Networks from Natural Language Text. University of Oxford, 2009.
- MSc. Thesis: Information Extraction in the Biological Domain. University of Oxford, 2005.

Academic Activities

- International Conference on Semantic Computing (ICSC 2010) Programme committee member.
- International Conference on Semantic Computing (ICSC 2009) Publicity co-chair.
- Computational Linguistics UK & Ireland (CLUKI 2009) Programme committee member.
- Computational Linguistics UK (CLUK 2008) Conference organiser.
- AAAI/SIGART Doctoral Consortium. (AAAI 2007) Consortium member.

Academic Awards

- Canadian Centennial Scholarship (Canadian Centennial Scholarship Fund, September 2007)
- Doctoral Consortium Scholarship (Association for the Advancement of Artificial Intelligence & Association for Computing Machinery, March 2007)
- Clarendon Scholarship (Oxford University Press, September 2005)
- Gordon Cressy Student Leadership Award (University of Toronto, April 2004)
- Honours List (University of Toronto, 2001 - 2004)
- Gilchrist Prize in Science (University of Toronto, April 2003)

Professional Employment

US Army - Space & Missile Defence Command/ISIS Innovations

Consultant

Oxford, United Kingdom

November 2008 - Present

- Developing demonstration software for very large scale information and data management.
- Assessing and analysing software for natural language processing and question answering.

IBM

Software Developer (Co-op)

Markham, Canada

September 2003 - January 2004

- Developed Code using IBMs Websphere Studio Application Developer for use on IBMs public internet site.
- Designed and Implemented user guide for content management tools for ibm.com.

Canadian Imperial Bank of Commerce

Systems Developer (Co-op)

Toronto, Canada

September 2002 - January 2003

- Created software for maintenance of Tandem online transaction processing system.
- Developed software packages through rigorous design, testing and implementation life-cycle constraints.
- Wrote scripting programs to automate daily operations in order to increase productivity.

Canadian Imperial Bank of Commerce

System Test Analyst

Toronto, Canada

May 2001 - September 2001

- Designed and implemented regression testing strategy to verify accuracy of financial transaction tools.
- Tested and verified several applications, including financial database systems, customer service software, and financial transaction software.