Andrew Cropper

a.cropper13@imperial.ac.uk

10/2013 -

01/2010 - 10/2010

06/2007 - 10/2008

Department of Computing, Imperial College London, 180 Queen's Gate, London, SW7 2AZ

PhD Computer Science, Imperial College London

Education

| Supervisor: Professor Stephen Muggleton Thesis: Efficient meta-interpretive learning of efficient programs | |
|--|-------------------|
| MSc Computer Science, University of Oxford Supervisor: Dr Brian Harrington Thesis: Modelling stock volume using Twitter | 10/2010 - 10/2011 |
| BSc Computer Science, Nottingham Trent University Graduated with first-class honours Supervisor: Dr Caroline Langensiepen Dissertation: Identifying and inferring objects from natural language text | 10/2005 - 07/2009 |
| Experience | |
| Visiting researcher, National Institute of Informatics, Tokyo, Japan Supervisor: Professor Katsumi Inoue | 08/2015 - 09/2015 |
| Research intern, National Institute of Informatics, Tokyo, Japan Supervisor: Professor Katsumi Inoue | 10/2014 - 12/2014 |
| Topic: Comparing meta-interpretive learning and meta-level abduction | |
| Research Assistant, University of Cambridge Supervisor: Dr Eiko Yonkei Topia: Distributed asynchronous graph algorithms | 07/2013 - 10/2013 |
| Topic: Distributed asynchronous graph algorithms | 0.1 /0.1 0 |
| Research Engineer, MFG Labs, Paris, France Topic: Machine learning on large (billions of edges) networks | 01/2012 - 07/2013 |

Publications

Software Engineer, Esendex, Nottingham

Software Engineer, Counter Solutions, Derbyshire

Topic: Developed analytical tools to monitor business SMS traffic

Topic: Developed analytical tools to monitor database and web servers

Conferences

• A. Cropper and S.H. Muggleton. Learning efficient logical robot strategies involving composable objects. *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence*, IJCAI 2015.

- A. Cropper. Learning efficient logic programs. *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence*, IJCAI 2015.
- A. Cropper and S.H. Muggleton. Can predicate invention compensate for incomplete background knowledge? *Proceedings of the 13th Scandinavian Conference on Artificial Intelligence*, SCAI 2015.
- A. Cropper and S.H. Muggleton. Logical minimisation of meta-rules within meta-interpretive learning. *Proceedings of the 24th International Conference on Inductive Logic Programming*, ILP 2014.

Workshops

- Colin Farquhar, Gudmund Grov, Andrew Cropper, Stephen Muggleton and Alan Bundy. Typed metainterpretive learning for proof strategies. *The 6th International Workshop on the use of AI in Formal Methods*, AI4FM 2015.
- A. Cropper. Identifying and inferring objects from textual descriptions of scenes from books. 2014 Imperial College Computing Student Workshop, ICCSW 2014.

Awards and grants

Machine Learning Journal best student paper
 National Institute of Informatics international internship program
 Full BBSRC PhD case studentship
 10/2014 - 12/2014
 10/2013 - 10/2016

• Syngenta fellowship 10/2013 - 10/2016

Talks

- Meta-interpretive learning of data transformation programs, The 25th International Conference on Inductive Logic Programming, Kyoto, Japan, 2015.
- Learning efficient logic programs, Doctoral Consortium of the International Joint Conference on Artificial Intelligence 2015, Buenos Aires, Argentina, 2015.
- Meta-interpretive learning normal logic programs, Meeting on meta-interpretive learning, Imperial College London, UK, 2015.
- Predicate invention in meta-interpretive learning, Meeting on abductive and inductive reasoning, Wakayama University, Japan, 2014.
- Can predicate invention in meta-interpretive learning compensate for incomplete background knowledge?, The 24th International Conference on Inductive Logic Programming, Nancy, France, 2014.

Professional services

Reviewing

 \cdot 2014 Imperial College Computing Student Workshop

Other

· IJCAI 2015 Student volunteer