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

Topic: Machine learning large (billions of edges) networks

Topic: Developed analytical tools to monitor business SMS traffic

Topic: Developed analytical tools to monitor database and web servers

Software Engineer, Esendex, Nottingham

Software Engineer, Counter Solutions, Derbyshire

Education

Supervisor: Professor Stephen Muggleton Thesis: Efficiently learning 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 Topic: Comparing meta-interpretive learning and meta-level abduction	10/2014 - 12/2014
Research Assistant, University of Cambridge Supervisor: Dr Eiko Yonkei Topic: Distributed asynchronous graph algorithms	07/2013 - 10/2013
Research Engineer, MFG Labs, Paris, France	01/2012 - 07/2013

Publications

Conferences

1. A. Cropper, A. Tamaddoni-Nezhad, and S.H. Muggleton. Meta-interpretive learning of data transformation programs. *Proceedings of the 25th International Conference on Inductive Logic Programming*, ILP 2015.

- 2. 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.
- 3. A. Cropper. Learning efficient logic programs. *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence*, IJCAI 2015.
- 4. 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.
- 5. 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

- 1. C. Farquhar, G. Grov A. Cropper, S.H. Muggleton, and A. Bundy. Typed meta-interpretive learning for proof strategies. *The 6th International Workshop on the use of AI in Formal Methods*, AI4FM 2015.
- 2. 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	ILP 2014
· National Institute of Informatics international internship program	10/2014 - 12/2014
· Full BBSRC PhD case studentship	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

· 2014 Imperial College Computing Student Workshop

Other

· IJCAI 2015 Student volunteer