Andrew Cropper

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Education

PhD Computer Science, Imperial College London — 10/2013 -
Supervisor: Professor Stephen Muggleton
Thesis: Meta-interpretive learning efficient logic programs

MSc Computer Science, University of Oxford — 10/2010 - 10/2011
Supervisor: Dr Brian Harrington
Thesis: Modelling stock volume using Twitter

BSc Computer Science, Nottingham Trent University — 10/2005 - 07/2009
Supervisor: Dr Caroline Langensiepen
Dissertation: Scenes from a book

Experience

Research Intern, National Institute of Informatics, Tokyo, Japan — 10/2014 - 12/2014
Supervisor: Professor Katsumi Inoue

Research Assistant, University of Cambridge — 07/2013 - 10/2013
Supervisor: Dr Eiko Yonkei

Research Engineer, MFG Labs, Paris, France — 01/2012 - 07/2013

Software Engineer, Esendex, Nottingham — 01/2010 - 10/2010

Software Engineer, Counter Solutions, Derbyshire — 06/2007 - 10/2008

Publications

1. Andrew Cropper and Stephen Muggleton. Learning efficient logical robot strategies involving composable objects. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI 2015)*. In press.
2. Andrew Cropper. Learning efficient logic programs. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI 2015)*. In press.
3. Andrew Cropper and Stephen Muggleton. Logical minimisation of metarules in meta-interpretive learning. In *Proceedings of the 24th International Conference on Inductive Logic Programming (ILP 2014)*. In press.
4. Andrew Cropper. Identifying and inferring objects from textual descriptions of scenes from books. In *2014 Imperial College Computing Student Workshop (ICCSW 2014)*, vol. 43, pp. 19-26. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 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 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.

Reviewing

- 2014 Imperial College Computing Student Workshop