

## Andrew Cropper

Department of Computing,  
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andrewcropper.com

## Education

**PhD Computer Science**, Imperial College London 10/2013 -

Supervisor: Professor Stephen Muggleton

Thesis: Meta-interpretive learning

**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 - 7/2009

Graduated with First-class honours

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

Comparing meta-interpretive learning with meta-level abduction

**Research Assistant**, University of Cambridge 7/2013 - 10/2013

Supervisor: Dr Eiko Yonkei

Distributed and asynchronous graph algorithms

**Research Engineer**, MFG Labs, Paris, France 1/2012 - 6/2013

Machine learning and information retrieval projects at a startup founded by a team of mathematicians, led by Pierre-Louis Lions (Collège de France and Fields Medal winner) and Jean-Michel Lasry (Université Paris-Dauphine)

**Software Engineer**, Esendex, Nottingham 1/2010 - 10/2010

Developed tools to monitor and analyse SMS traffic

**Software Engineer**, Counter Solutions, Derby 6/2007 - 10/2008

Developed tools to monitor and analyse server performance

## Publications

### Refereed conferences papers

- **A. Cropper** and S. Muggleton. Logical minimisation of metarules in meta-interpretive learning. In *Proceedings of the 24th International Conference on Inductive Logic Programming (ILP 2014)*. To appear. *Machine Learning Journal* **best student paper**.

### Refereed workshop papers

- **A. Cropper.** Identifying and inferring objects from textual descriptions of scenes from books. In 2014 *Imperial College Computing Student Workshop*, volume 43, pages 19–26. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2014.

### Refereed short papers

- **A. Cropper** and S. Muggleton. Can predicate invention in meta-interpretive learning compensate for incomplete background knowledge? *24th International Conference on Inductive Logic Programming, 2014*. Invited as a long paper.

### Awards and grants

- *Machine Learning Journal* best student paper ILP2014
- NII International internship program 10/2014 - 12/2014
- Full BBSRC PhD case studentship (all fees and standard bursary) 10/2013 - 10/2016
- Syngenta fellowship 10/2013 - 10/2016

### Reviewing

#### Workshops

- Imperial College Computing Student Workshop (ICCSW'14) 2014

### Talks

- Meeting on Abductive and Inductive Reasoning, Wakayama University, Japan. 2014

### Languages

- English: native
- French: basic