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| Education | |
| PhD Computer Science, Imperial College London | 10/2013 - |
| Supervisor: Professor Stephen Muggleton | |
| Thesis: Efficiently learning efficient programs | |
| MSc Computer Science, University of Oxford | 10/2010 - 10/2011 |
| Supervisor: Dr Brian Harrington | |
| Thesis: Predicting stock volume using Twitter | |
| BSc Computer Science, Nottingham Trent University | 10/2005 - 07/2009 |
| Graduated with first-class honours | |
| Supervisor: Dr Caroline Langensiepen | |
| Dissertation: Identifying and inferring objects from natural language | |
| Employment | |
| Research Assistant, University of Cambridge | 07/2013 - 10/2013 |
| Worked with Dr Eiko Yonkei on distributed graph algorithms | |
| Research Engineer, MFG Labs, Paris, France | 01/2012 - 07/2013 |
| Designed large-scale distributed machine learning algorithms | |
| Software Engineer, Esendex, Nottingham | 01/2010 - 10/2010 |
| Developed analytical tools to monitor SMS traffic | |
| Software Engineer, Counter Solutions, Derbyshire | 06/2007 - 10/2008 |
| Developed analytical tools to monitor servers | |
| Research visits | |
| Visiting Researcher, Massachusetts Institute of Technology | 07/2016 |
| Worked with Professor Josh Tenenbaum on machine learning programs from data | · |
| Visiting Researcher, National Institute of Informatics, Tokyo, Japan | 04/2017 - 07/2017 |
| Worked with Professor Katsumi Inoue on logic-based machine learning | 08/2015 - 09/2015 |
| | 10/2014 - 12/2014 |
| Awards and grants | |
| • Machine Learning Journal best student paper | ILP 2014 |
| National Institute of Informatics international internship program | 10/2014 - 12/2014 |
| Syngenta fellowship | 10/2013 - 10/2017 |
| • Full BBSRC PhD case studentship | 10/2013 - 10/2017 |
| Tan Dored The case statemonip | 10,2010 10,2017 |
| Publications | |
| Conference papers | |
| | |

1. A. Cropper and S.H. Muggleton. Learning higher-order logic programs through abstraction and invention. In *Proceedings of the 25th International Joint Conference Artificial Intelligence (IJCAI 2016*), pages 1418-1424. IJCAI,

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2016.

- 2. A. Cropper and S.H. Muggleton. Learning efficient logical robot strategies involving composable objects. In *Proceedings of the 24th International Joint Conference Artificial Intelligence (IJCAI 2015)*, pages 3423-3429. IJCAI, 2015.
- 3. A. Cropper, A. Tamaddoni-Nezhad, and S.H. Muggleton. Meta-interpretive learning of data transformation programs. In *Proceedings of the 25th International Conference on Inductive Logic Programming (ILP2015)*, pages 46-59. Springer-Verlag, 2015. LNAI 9046.
- 4. C. Farquhar, G. Grov, A. Cropper, S.H. Muggleton, and A. Bundy. Typed meta-interpretive learning for proof strategies. In *Late Breaking Papers of the 25th International Conference on Inductive Logic Programming*, pages 17-32, 2015.
- 5. A. Cropper and S.H. Muggleton. Can predicate invention compensate for incomplete background knowledge? In *Thirteenth Scandinavian Conference on Artificial Intelligence -* SCAI 2015, Halmstad, Sweden, November 5-6, 2015, pp. 27-36.
- 6. A. Cropper and S.H. Muggleton. Logical minimisation of meta-rules within meta-interpretive learning. In *Proceedings of the 24th International Conference on Inductive Logic Programming (ILP2014)*, pages 62-75. Springer-Verlag, 2015. LNAI 9046.

Workshop papers

1. A. Cropper. Identifying and inferring objects from textual descriptions of scenes from books. In *2014 Imperial College Computing Student Workshop*, ICCSW 2014, September 25-26, 2014, London, United Kingdom, pp. 19-26.

Extended abstracts

- 1. A. Cropper. Logic-based inductive synthesis of efficient programs. In *Proceedings of the 25th International Joint Conference Artificial Intelligence (IJCAI 2016)*, pages 3980-3981. IJCAI, 2016.
- 2. A. Cropper. Learning efficient logic programs. In *Proceedings of the 24th International Joint Conference Artificial Intelligence (IJCAI 2015)*, pages 4359-4360. IJCAI, 2015.

Invited talks

- **2017** Learning efficient logic programs, Workshop on approaches and Applications of inductive programming, Dagstuhl, Germany
- **2017** Learning higher-order logic programs, Workshop on approaches and Applications of inductive programming, Dagstuhl, Germany
- **2016** Learning efficient logic programs, Machine Intelligence 20 workshop on human-like computing, London, UK.
- 2016 Logic-based learning of programs from input/output examples, UC Berkeley, USA.
- 2015 Metagol, Workshop on approaches and Applications of inductive programming, Dagstuhl, Germany
- **2014** Predicate invention in meta-interpretive learning, Meeting on abductive and inductive reasoning, Wakayama University, Japan.