

Rob Egrot

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Research Interests

Algebraic logic, order theory in logic, the model theory of partially ordered sets, completions for posets, non-classical logics.

Professional Experience

Assistant professor – Faculty of ICT, Mahidol University, 2017 – present

Instructor – Faculty of ICT, Mahidol University, 2014 – 2017

Postgraduate teaching assistant – Department of Computer Science, University College London, 2008-2012

Visiting researcher – Department of Computer Science, University College London, July – August 2017 and June – July 2018.

Education

PhD. Computer Science, University College London, 2013

MSc. Computing, Oxford Brookes University, 2008

BA Mathematics, University of Oxford, 2007

Selected Professional Service

Reviewer for the Journal of Logic and Computation (JLC).

Reviewer for Mathematical Reviews (MR).

Judge for ICPC (International Collegiate Programming Contest), Asia regional round - Nakhon Pathom (2017, 2018).

Selected Talks

Thammasat University ‘Ola Bratteli’ Seminar, “Canonicity in Algebra and Logic”.
Bangkok, December 2018.

Chulalongkorn University Department of Mathematics Seminar, “When is a partially ordered set really a fragment of a Boolean algebra, and why is this an interesting question?”. Bangkok, January 2018.

London Logic Forum, “Axiomatizing representation classes for posets in first-order logic”. London, June 2016.

London Logic Forum, “Completions of posets”. London, February 2012.

Workshop on Lattices, Relations and Kleene Algebras. “Complete representation for distributive lattices.” London, September 2010.

Publications

R. Egrot. *Recursive axiomatizations for representable posets*. International Journal of Algebra and Computation (in press).

R. Egrot. *No finite axiomatizations for posets embeddable into distributive lattices*. Annals of Pure and Applied Logic 169, 235-242, 2018.

R. Egrot. *Closure operators, frames, and neatest representations*. Bulletin of the Australian Mathematical Society 96, 361-373, 2017.

R. Egrot. *Non-elementary classes of representable posets*. Proceedings of the American Mathematical Society 145, 4675-4685, 2017.

R. Egrot. *Representable posets*. Journal of Applied Logic 16, 60-71, 2016.

R. Egrot and R Hirsch. *Meet-completions and ordered domain algebras*. Logic Journal of the IGPL 23, 584-600, 2015.

R. Egrot and R. Hirsch. *Completely representable lattices*. Algebra Universalis 67, 205-217, 2012.