```
Thursday, 11<sup>th</sup> January – morning (Chair: David Pym)
 9:30-10:30
     9:30 - 9:45 Nathanaël Fijalkow
             Introduction
     9:45 - 10:30 Martin Grohe (Aachen)
             Learning Logically Defined Hypotheses
10:30-11:00 Coffee break
11:00-12:30
     11:00 - 11:45 Borja Balle (Amazon Cambridge)
             Learning Automata with Hankel Matrices
     11:45 - 12:30 Edward Grefenstette (DeepMind)
             Recurrent Neural Networks and Models of Computation
12:30-14:00 Lunch
                  Thursday, 11<sup>th</sup> January – afternoon (Chair: Andrew Blake)
14:00-15:30
     14:00 - 14:45 Luc De Raedt (Leuven)
             Probabilistic logic learning
     14:45 - 15:30 Aditya Nori (Microsoft Cambridge)
             Fairness and robustness in machine learning – a formal methods perspective
15:30-16:00 Coffee break
16:00-16:45
     16:00 - 16:45 Jane Hilston (Edinburgh)
             Integrating Inference with Stochastic Process Algebra Models
                  Friday, 12<sup>th</sup> January – morning (Chair: Nathanaël Fijalkow)
 9:00-10:30
     9:00 - 9:45 Jan Křetínský (Technical University of Munich)
             Fast learning of small strategies
     9:45 - 10:30 Alessandro Abate (Oxford and Turing)
             Formal verification and learning of complex systems
10:30-11:00 Coffee break
11:00-12:30
     11:00 - 11:45 Joost-Pieter Katoen (Aachen)
             Bayesian Inference by Program Verification
     11:45 - 12:30 Sam Staton (Oxford)
             Denotational validation of higher-order Bayesian inference
12:30-14:00 Lunch
                  Friday, 12<sup>th</sup> January – afternoon (Chair: Stephen H. Muggleton)
14:00-15:30
     14:00 - 14:45 Richard Evans (DeepMind)
             Learning Explanatory Rules from Noisy Data
     14:45 - 15:30 Tim Rocktäschel (Oxford)
             End-to-End Differentiable Proving
15:30-16:00 Coffee break
16:00-17:00 Final Remarks and Perspectives
     16:00 - 16:30 Prakash Panangaden (McGill)
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16:30 - 17:00 Marta Kwiatkowska (Oxford)