

How Humans and Machines Learn to See

SFB Symposium, Rauischholzhausen Castle, Hesse, Germany

12-14th August 2019

Monday 12th August

12:00	—	17:00	Arrival and check in for those staying at the castle
17:00	—	17:30	Welcome from organisers
17:30	—	19:00	Opening reception
19:00	—	20:30	Buffet dinner

Tuesday 13th August

07:30	—	09:00	Buffet breakfast
09:00	—	10:00	Dr Lauren Slone , Indiana University <i>A developmental perspective on machine learning: The structure of data in the wild and why it matters</i>
10:00	—	11:00	Prof Rhodri Cusack , Trinity College Dublin <i>Deep learning and infant vision: Miracle model or misleading metaphor?</i>
11:00	—	11:30	Coffee break
11:30	—	12:30	Dr Wieland Brendel , University of Tübingen <i>How machines see our world</i>
12:30	—	13:30	Buffet lunch
13:30	—	14:30	Dr Nick Haber , Stanford University <i>Learning to see and play through curiosity</i>
14:30	—	15:30	Prof David Cox , IBM <i>Predictive coding models of perception</i>
15:30	—	16:00	Coffee break
16:00	—	17:00	Dr Katherine Storrs , Justus-Liebig University Giessen <i>Unsupervised learning predicts perception and misperception of materials</i>
17:00	—	19:00	Posters and discussion
19:00	—	20:30	Buffet dinner

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Wednesday 14th August

07:30	—	09:00	Buffet breakfast
09:00	—	10:00	Dr Yura Burda , OpenAI <i>Recent developments in artificial curiosity</i>
10:00	—	11:00	Dr Marta Garnelo , Google DeepMind <i>Neural Scene Representation and Rendering with Generative Query Networks</i>
11:00	—	11:30	Coffee break
11:30	—	12:30	Dr Kamila Józwik , MIT <i>Brain-inspired deep neural network models of object recognition in humans and monkeys</i>
12:30	—	13:30	Prof Thomas Serre , Brown University <i>Feedforward and feedback processes in visual recognition</i>
13:30	—	14:30	Buffet lunch
Close of symposium, departure			

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