



Mind and Machine Research Week 8-12 July 2019

Main Venue: Redacre Hall (known locally as Hillend House)
Eastnor, Herefordshire, HR8 1RF

Nearest train station Ledbury

Monday 8 July 2019

11:30 Leave Bristol
12:30 – 1:30 Lunch (on the way)
1:30 – 3:30 PhD short introductions to projects (Marin, Milton, Nick & Chris)
4:00 Check in
5:00 Reading group 1: Lake et al. (2017). Building machines that learn and think like people.

Tuesday 9 Jul 2019

9:30 – 10:30 What is a symbol system and how can a neural net achieve it? (John Hummel)
10:30 – 11:00 Coffee
11:00 – 1:00 Post-doc Projects (30 mins per project)
1:00 – 3:00 Lunch
3:00 – 4:00 General discussion on spiking models (Jeff B & Ben to lead)
4:00 – 4:30 Coffee
4:30 – 6:00 Movie Night and discussion (Jeff Clune talk)

Wednesday 10 July 2019

9:30 – 10:30 General discussion on Generative models (Milton, Chris to lead)
10:30 – 11:00 Coffee
11:00 – 12:00 Rui talk (Biological constraints on deep learning models)
12:00 – 2:00 Lunch
2:00 – 3:00 Movie (Botvinick) and/or hike
3:00 – 3:30 Coffee
3:30 – 5:30 **Debate**
John | Fundamental limitations of deep learning systems without symbolic machinery.
Ivan | Supporting symbolic computation in conventional connectionist architectures

Thursday 11 July 2019

9:00 – 11:00	Elevator pitches (5 + 10 mins)
11:00 – 11.30	Coffee
11:30 – 12:30	Discussion and collaborations?
12:30 – 2:00	Lunch
2:00 – 3:00	Alex Graves' talk (new perspectives)
3:00 – 3:30	Coffee
3:30 – 4:00	Background readings about challenges (Jeff B and Ryan)
4:00 – 6:00	Joint activity: List of challenges for Deep Learning models

Friday 12 July 2019

Pack and drive back

Participants

Jeff Bowers	(Bristol, UK)
Gaurav Malhotra	(Bristol, UK)
Ryan Blything	(Bristol, UK)
Nick Martin	(Bristol, UK)
Jeff Mitchell	(Bristol, UK)
Ben Evans	(Bristol, UK)
Milton Llera Montero	(Bristol, UK)
Marin Dujmović	(Bristol, UK)
Christian Tsvetkov	(Bristol, UK)
John Hummel	(Illinois, USA)
Rachel Heaton	(Illinois, USA)
Ivan Vankov	(New bulgarian University)