

Kinds of Intelligence Research Group, Michaelmas 2017

Consciousness and intelligence: origins, varieties, and functions

Organiser: Henry Shevlin

Meetings are held on Thursdays from 11-12 noon in 16 Mill Lane. Participants may choose to continue the conversation over lunch from 12-1pm. Readings available at <http://tinyurl.com/yaxxowol> and can be emailed on request.

Michaelmas Term (3 Oct–1 Dec)	Topic: Evolution of Consciousness	Supplementary Reading
21 September Convergent minds	Powell, Mikhalevich, Logan, & Clayton (2017). Convergent minds: the evolution of cognitive complexity in nature	Logan et al. (2017). Beyond Brain Size.
05 Oct Why did consciousness evolve?	Feinberg and Mallatt (2017). The Ancient Origins of Consciousness. Chapters 1 & 10.	Merker (2005). The liabilities of mobility: A selection pressure for the transition to consciousness in animal evolution
12 Oct Other minds 1	Godfrey-Smith (2016). Other Minds, Chapters 1 and 4	Cave (2017). What the octopus tells us about human intelligence
19 Oct Other minds 2	Godfrey-Smith (2016). Other Minds, Chapters 6 and 7	Halina (forthcoming). Octopuses as conscious exotica
26 Oct From perceiving to thinking	Henry's paper; working title "From categories to thoughts"	Carruthers (2009). Invertebrate concepts confront the generality constraint (and win)
02 Nov Classifying kinds of learning	Dennett (1996). Kinds of Minds. Chapters 1 & 6.	Godfrey-Smith (2017). Towers and Trees in Cognitive Evolution
09 Nov Bacterial and plant cognition	Lyon (2005). The cognitive cell.	Gagliano et al. (2016). Learning by Association in Plants.
16 Nov Insect Consciousness	Barron & Klein (2016). What insects can tell us about the origins of consciousness	Replies by Key, Arlinghaus, & Browman; Adamo; Schilling & Cruse (2016).
23 Nov Reward mechanisms	Ginsburg & Jablonka (2010). The evolution of associative learning: A factor in the Cambrian explosion	Perry, Barron, Cheng (2013). Invertebrate learning and cognition: relating phenomena to neural substrate
30 Nov From biological to Artificial life	Lake et al (2016). Building machines that learn and think like people	Orallo (2016). The Measure of All Minds: Evaluating Natural and Artificial Intelligence.