

## Embodied Cognition

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The cognitive science seminar for Fall 2023 will focus on embodied (or 4E – embodied, embedded, extended, enactive) cognition, which presents an alternative to standard cognitivist views in cognitive science. 4E approaches motivate a number of contemporary debates and critical responses to questions about the role of brain, body and environment in cognition; notions of representation, affordance, affectivity, dynamical attunement; relations between perception and action, predictive processing and active inference. We'll consider the strengths and weaknesses of the theories in question and discuss major criticisms and their possible resolutions. We'll also discuss practical applications in the areas of education, humanities, economics, psychiatry and clinical reasoning. Guest speakers are from the fields of philosophy, psychology, neuroscience, cognitive archaeology, computer science and AI.

### Guest lectures

- Aug 30 **Louise Barrett** (Psychology, U. Lethbridge). *Beyond the brain*
- Sep 6 **Detlef H. Heck** (Neurology, U Minnesota Medical School) *Bodily constraints on perception*
- Sep 13 **Art Glenberg** (Psychology, Arizona State). Embodied cognition in education.
- Sep 20 **Mark Johnson** (Philosophy, U Oregon). *Embodied mind, meaning, and reason*
- Sep 27 **David Kirsh** (CogSci, UC-San Diego) *Epistemic actions*
- Oct 4 **Michael Wheeler** (Philosophy, Stirling U, Scotland) *Extended cognition*
- Oct 11 **Anthony Chemero** (Psychology/Philosophy, U Cincinnati) *Ecological psychology*
- Oct 18 **Karl Friston** (Neuroscience, UCL London) *Predictive processing and the free energy principle*
- Oct 25 **Larry Shapiro** (Philosophy, U Wisconsin) *Conceptions of embodiment*
- Nov 1 **Karenleigh A. Overmann** (Anthropology and Cognitive Archaeology, U Colorado)  
Reading and writing: Extended cognitive states?
- Nov 8 **Takashi Ikegami** (AI, Okinawa Institute of Science and Technology, Okinawa, Japan).  
Embodied robotics
- Nov 15 **Ezequiel Di Paolo** (Computer Science, U of the Basque Country, San Sebastian, Spain)  
Enactivism and Autopoiesis