



UConn BIRC Speaker Series

Tuesday, October 20th from 12:00–1:30pm via Zoom

Human replay in learning and inference

Yunzhe Liu, PhD Student, Max Planck UCL Centre

Introduction by Professor Tim Behrens of the University of Oxford



Abstract: In this talk, I will discuss two lines of research, one is how replay re-organize experience during rest for efficient inference and generalization in the novel context. The second is about the computational role of replay in reinforcement learning, e.g., solve complex credit assignment problem.

References: (1) Wimmer, G. E. *, Liu, Y. *, Vejar, N., Behrens, T. E., Dolan, R. J. (2020) Episodic memory retrieval is supported by rapid replay of episode content. *Nature Neuroscience* 23, 1025-1033. (2) Liu, Y., Dolan, R. J., Kurth-Nelson, Z., Behrens, T. E. (2019) Human replay spontaneously reorganises experience. *Cell*, 178(3), 640-652.

Bio: Yunzhe Liu is a PhD student working with Ray Dolan and Tim Behrens at University College London. He works on the computational function of human replay in learning, inference, and decision-making.

Remote Access Registration: <https://bit.ly/36SNmNg>

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*Please note: You *must* register in advance via Zoom*

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