

CNeuro2024

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Reading Material

Basic Lecture

Daw, N.D. (2016) Reinforcement learning, in Arbib, M., and Bonaiuto, J., ed., *From Neuron to Cognition via Computational Neuroscience*, MIT press. (attached)

Daw, N.D. (2018) Are we of two minds? *Nature Neuroscience* 21(11):1497-1499. URL: <https://www.princeton.edu/~ndaw/d18.pdf>

Daw, N.D. and Dayan, P. (2014) The algorithmic anatomy of model-based evaluation. *Philosophical Transactions of the Royal Society B* 369: 20130478. URL: <https://www.princeton.edu/~ndaw/dd14.pdf>

Gillan, C.M., Kosinski, R.W., Phelps, E.A., and Daw, N.D. (2016) Characterizing a psychological dimension related to deficits in goal-directed control. *eLife* 5 pii: e11305. URL: <https://www.princeton.edu/~ndaw/gkwpd16.pdf>

Advanced Lecture

Mattar, M.G., and Daw, N.D. (2018) Prioritized memory access explains planning and hippocampal replay. *Nature Neuroscience* 21:1609-1617. URL: <https://www.princeton.edu/~ndaw/md18.pdf>

Russek, E.M., Momennejad, I., Botvinick, M.M., Gershman, S.J., and Daw, N.D. (2017) Predictive representations can link model-based reinforcement learning to model-free mechanisms. *PLoS Computational Biology* 13:e1005768. URL: <https://journals.plos.org/ploscompbiol/article/file?id=10.1371/journal.pcbi.1005768&type=printable>

Piray, P., and Daw, N.D. (2021) Linear reinforcement learning in planning, grid fields, and cognitive control. *Nature Communications* 12:4942.sch. URL: <https://www.princeton.edu/~ndaw/pd20212.pdf>