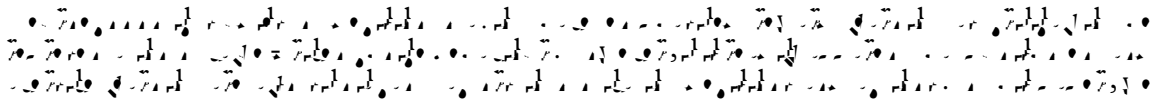

Review

The role of the striatum inaversive learning andaversive prediction errors

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\$24.00
\$60.00

(c) P a a a
 b a a a
(C) B AC
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 F
 AC $EDGE$

$\vec{r} = r \hat{r} = r (\sin\theta \cos\phi \hat{i} + \sin\theta \sin\phi \hat{j} + \cos\theta \hat{k})$
 $\vec{v} = \dot{\vec{r}} = \dot{r} \hat{r} + r \dot{\theta} \hat{\theta} + r \sin\theta \dot{\phi} \hat{\phi}$
 $\vec{a} = \ddot{\vec{r}} = \ddot{r} \hat{r} + 2\dot{r}\dot{\theta} \hat{\theta} + r\ddot{\theta} \hat{\theta} - r\dot{\theta}^2 \hat{r} + 2\dot{r}\dot{\phi} \sin\theta \hat{\phi} + 2r\dot{\theta}\dot{\phi} \cos\theta \hat{\phi} + r\ddot{\phi} \sin\theta \hat{\phi} - r\dot{\phi}^2 \sin\theta \hat{r} - r\dot{\phi}^2 \cos\theta \hat{\theta}$

(4)

- D'Alessandro, C., & E. & C. 2008 B. D. Science 319, 1264-1267. ([doi:10.1126/science.1150605](https://doi.org/10.1126/science.1150605))
- D. 1998 A. J. Clin. Neurophysiol. 15, 378-387. ([doi:10.1097/00004691-199809000-00002](https://doi.org/10.1097/00004691-199809000-00002))
- D., D., & D. 2002 Neural Netw. 15, 603-616. ([doi:10.1016/0893-6080\(02\)00052-7](https://doi.org/10.1016/0893-6080(02)00052-7))
- D. 2007 Ann. NY Acad. Sci. 1104, 70-88. ([doi:10.1196/annnyacadsci.1390.002](https://doi.org/10.1196/annnyacadsci.1390.002))
- D., E., F., C., D. C. & F. A. 2000 J. Neurophysiol. 84, 3072-3077.
- D., F. & E. A. 2005

- B., Ferschl, C., Gollwitzer, P., & Gollwitzer, P. (1979). A. *Physiol. Behav.* **23**, 1109–1117. ([10.1016/0031-9384\(79\)90304-4](https://doi.org/10.1016/0031-9384(79)90304-4))
- A. E., & ... (1997). N- ... +D- ... Proc. Natl. Acad. Sci. USA **94**, 12174–12179. ([10.1073/pnas.94.22.12174](https://doi.org/10.1073/pnas.94.22.12174))
- & ... (2006). PLoS Biol. **4**, 233. ([10.1371/journal.pbio.0040233](https://doi.org/10.1371/journal.pbio.0040233))
- C., B., D., A., C., C., F., & ... (2005). Science **308**, 78–83. ([10.1126/science.11108062](https://doi.org/10.1126/science.11108062))
- A., G., B., C., B., & D. (2003). A. Neuroimage **20**, 1086–1095. ([10.1016/S1053-8119\(03\)00381-1](https://doi.org/10.1016/S1053-8119(03)00381-1))
- B., A., C., F., G., & D. (2001a). J. Neurosci. **21**, C159.
- B., F., G., A., C., & D. (2001b). Neuroreport **12**, 3683–3687. ([10.1097/00001756-200112040-00016](https://doi.org/10.1097/00001756-200112040-00016))
- B., D., & E. Neuroeconomics: decision making and the brain (G., C., F., C., E., F., & A.).
- B., D., E., D., D., & E. A. (1995). J. Neurosci. **15**, 6846–6855.
- B., G., C., G., C., D., E., & E. A. (1998). Neuron **20**, 937–945. ([10.1016/S0896-6273\(00\)80475-4](https://doi.org/10.1016/S0896-6273(00)80475-4))
- B. & G. (2007). A. *Neuron* **53**(2), 1–13. ([10.1016/j.neuron.2007.01.008](https://doi.org/10.1016/j.neuron.2007.01.008))

