### **Accepted Manuscript**

A mathematical model of embodied consciousness

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PII: S0022-5193(17)30254-0 DOI: 10.1016/j.jtbi.2017.05.032

Reference: YJTBI 9089

To appear in: Journal of Theoretical Biology

Received date: 21 November 2016 Revised date: 21 March 2017 Accepted date: 23 May 2017



Please cite this article as: David Rudrauf, Daniel Bennequin, Isabela Granic, Gregory Landini, Karl Friston, Kenneth Williford, A mathematical model of embodied consciousness, *Journal of Theoretical Biology* (2017), doi: 10.1016/j.jtbi.2017.05.032

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#### ACCEPTED MANUSCRIPT

## Highlights

- We introduce a mathematical model of embodied consciousness
- The model combines projective geometry and active inference
- It links perception, imagination, action and resilience through perspective taking
- It is driven by perceptual evidence, beliefs and preferences using free energy
- Our model suggests novel directions for psychology, neuroscience, and AI

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