

Robert Ajemian – Brief Biographical Sketch

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EDUCATION

Sept. 2001 Boston University, Boston, MA
Ph.D in *Cognitive and Neural Systems*
Thesis: "An analysis of movement representation in motor cortical cells".
June 1990 Harvard University, Cambridge, MA
A.B. in *Physics*
Graduated *cum laude*

PROFESSIONAL APPOINTMENTS

2/11 – Present Massachusetts Institute of Technology, Cambridge, MA
Research Scientist
McGovern Institute for Brain Research
1/03 – 1/11 Massachusetts Institute of Technology, Cambridge, MA
Postdoctoral Fellow
Department of *Brain and Cognitive Sciences*
9/01 - 12/02 Boston University, Boston, MA
Postdoctoral Fellow
Department of *Cognitive and Neural Systems*

SELECTED PUBLICATIONS

Ajemian R., Bizzi E., Schachter S., Edgerton R., Winograd J., and Malik W. (2017) "Gentler alternatives to chips in the brain." *Nature*. 544(7651):416.
Bizzi, E., and Ajemian, R. (2015) "A Hard Scientific Quest: Understanding Voluntary Movements." *Daedalus*. Vol. 144, No. 1: 83–95.
Ajemian, R., D'Ausilio, A., Moorman, M, and Bizzi, E. (2013) "A theory for how sensorimotor skills are learned and retained in noisy and nonstationary neural circuits." *Proc Natl Acad Sci*. 110(52):E5078-87.
Ajemian, R., D'Ausilio, A., Moorman, M, and Bizzi, E. (2010) "Why professional athletes need a prolonged period of warm-up and other peculiarities of human motor learning." *Journal of Motor Behavior*. 42(6):381-88.
Ajemian, R., and Hogan, N. (2010) "Experimenting with Theoretical Neuroscience" *Journal of Motor Behavior*. 42(6):333-42.
Ajemian, R., Green, A., Sergio, L., Bullock, D., Kalaska, J., and Grossberg, S. (2008) "Assessing the function of motor cortex: single-neuron models of how neural response is modulated by limb biomechanics." *Neuron*. 58(3):414-28.