

	<p>Amir Pasha Zamani</p> <p>I was born in March 1988, Shiraz, Iran. I have my M.Sc. degree in control engineering (Shahid Rajaee University of Tehran, Iran), and my bachelor's degree in electronics engineering.</p> <p>After my graduation, as I was strongly interested in neuroscience I started participating in some online related courses and working as a researcher in computational neuroscience.</p>
<p>Research interest</p>	<p>Neural dynamics & Single neuron modelling Neuroeconomics & Decision making Computational Models of Visual Cortex Computational Models of olfactory system</p> <p>System Identification Neural Networks</p>
<p>My current work is on identifying the decision making structure of rat brain, based on different brain areas related to goal directed behaviors and reward based decision-making.</p> <p>These areas include Ventral Tegmental Area (VTA), Nucleus Accumbens (NAc), Dorsolateral Prefrontal Cortex (DLPFC), Ventromedial prefrontal cortex (VMPFC) and Anterior Cingulate Cortex (ACC), each engage in encoding different values.</p> <p>Reinforcement Learning algorithms and neuro population models are the methods used in this project.</p> <p>An appropriate collaboration is also available to use the data obtained from the famous T-maze task for rats.</p>	
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