

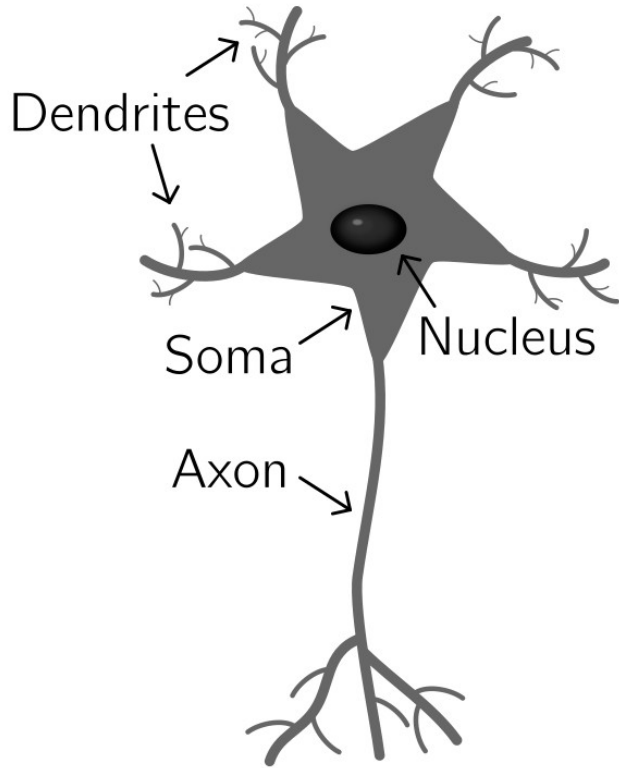
# Reinforcement learning and biological networks

Stephan J. Ihle

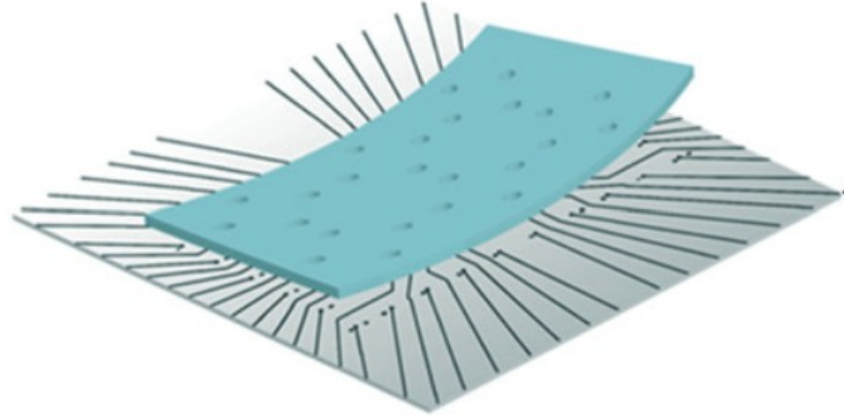
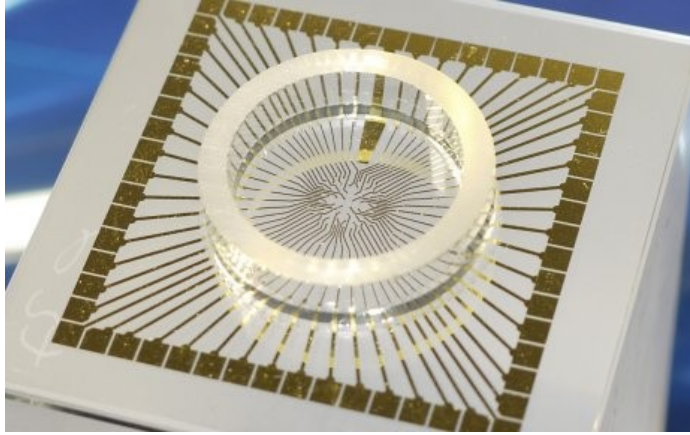
Eric and Wendy Schmidt AI-Postdoctoral Fellowship  
Biological Science Department  
Physical Science Department  
Data Science Institute University of Chicago



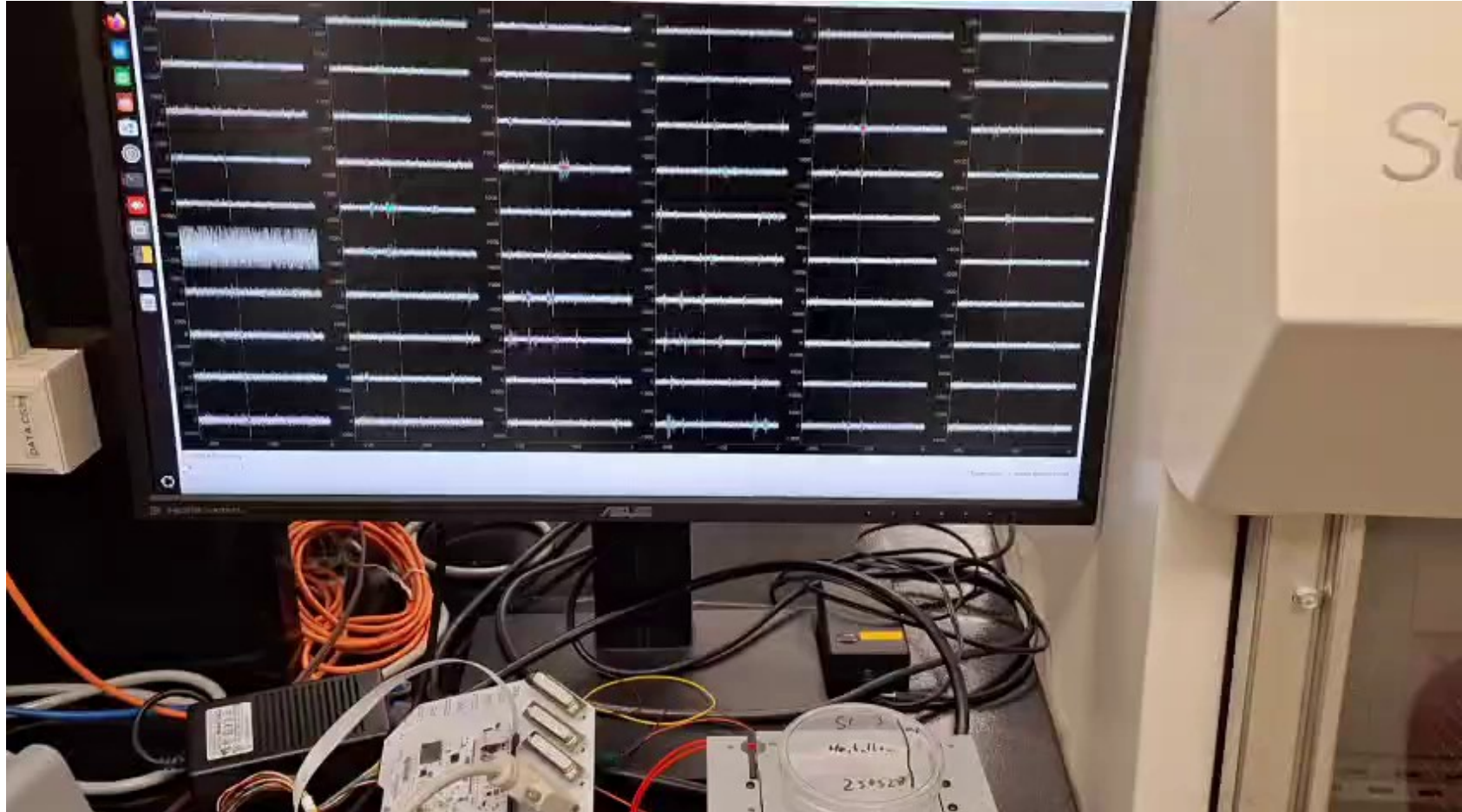
# How neurons work



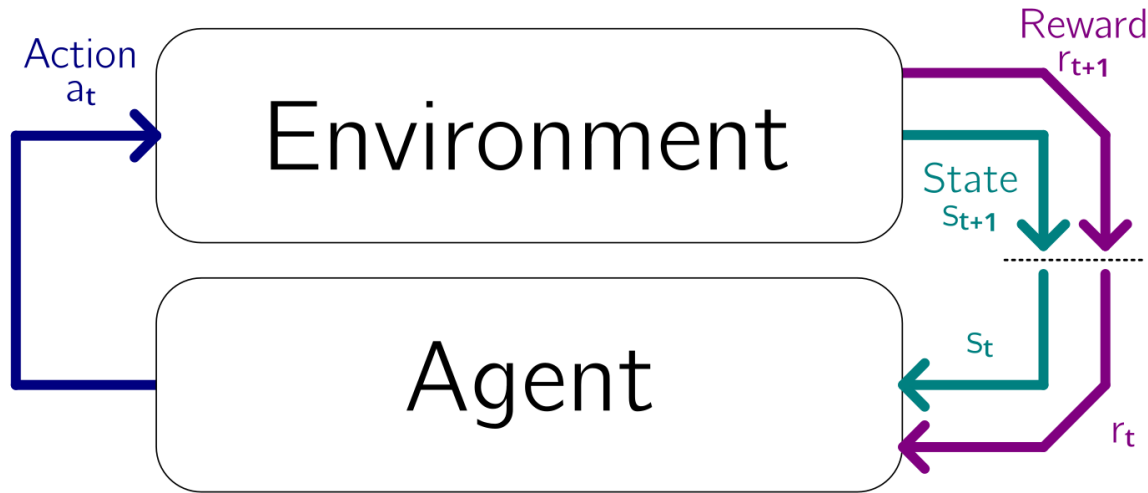
# Culturing neurons in a dish



# Looking at spiking activity



# Reinforcement learning



The network is stimulated every 250 ms