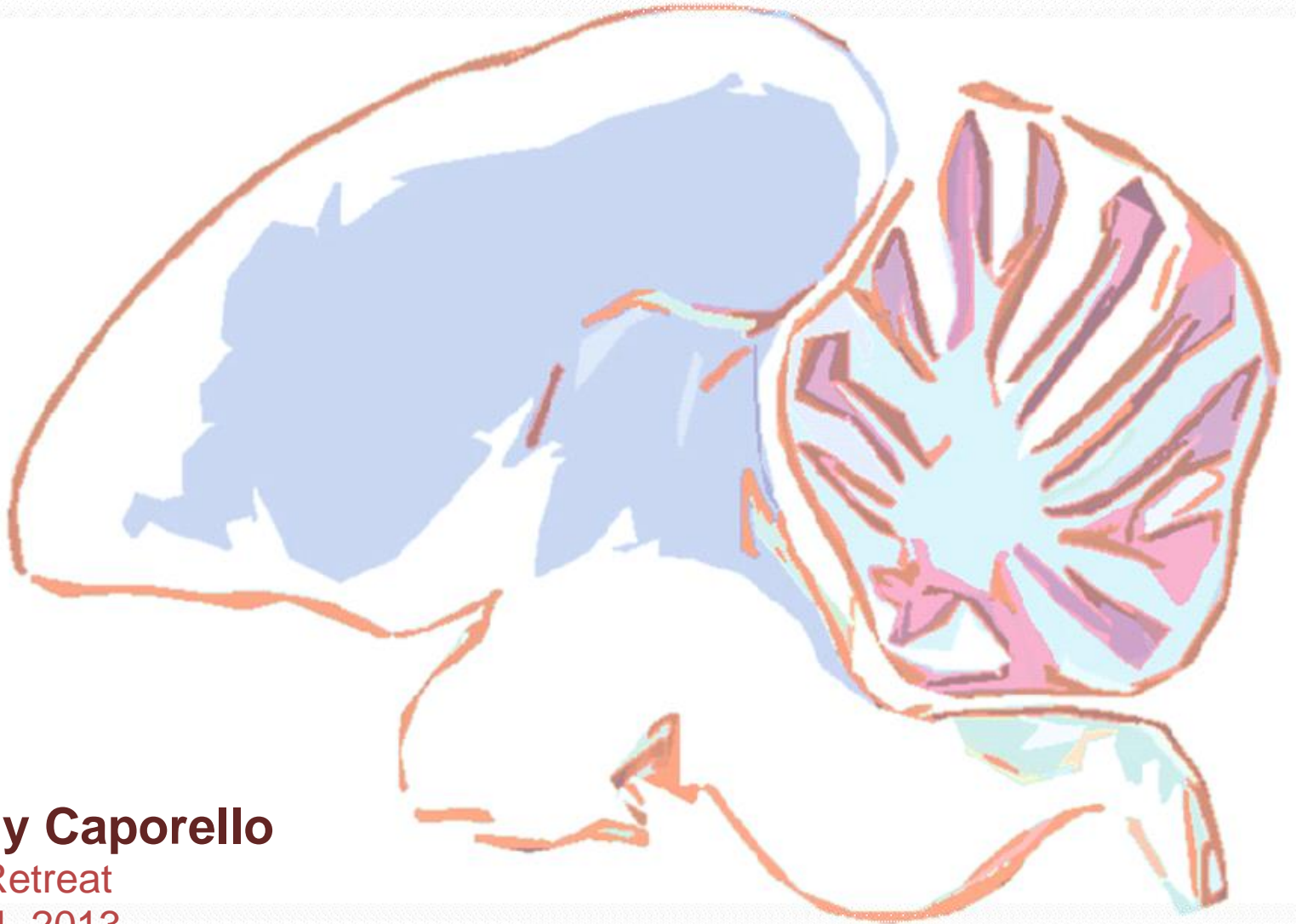


Neural Correlates of Auditory Attention in the Songbird

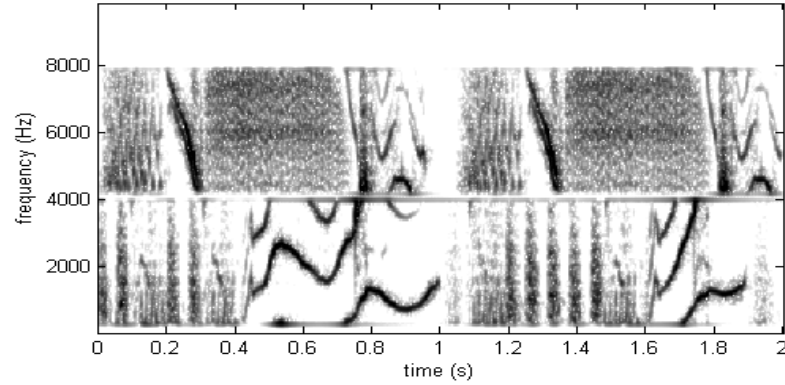
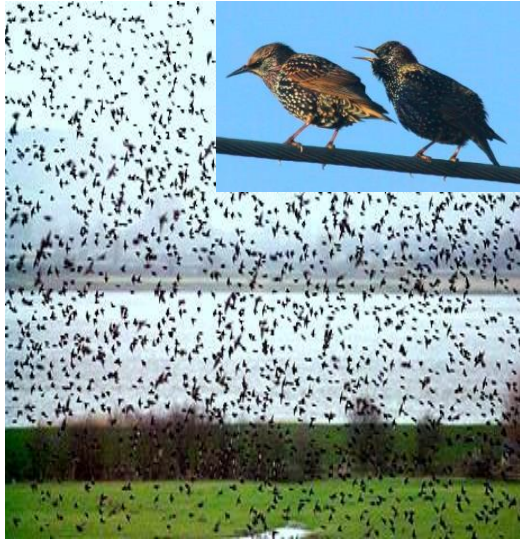


Emily Caporello

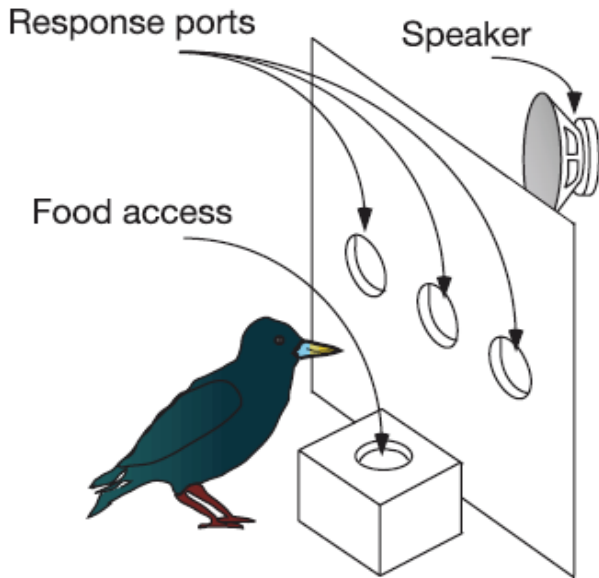
INC Retreat

May 4, 2013

Auditory Attention in Songbirds



b

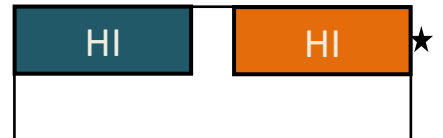
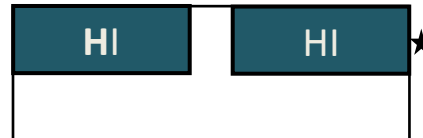


Training Stage

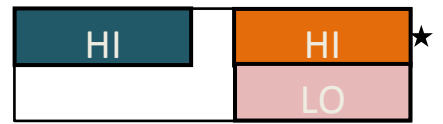
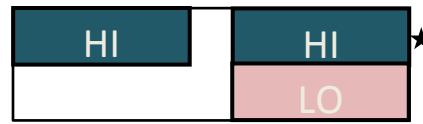
Match (go left)

Non-Match (go right)

1

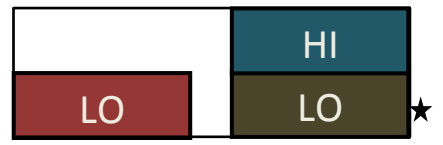
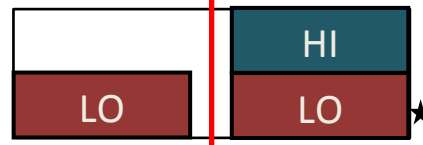
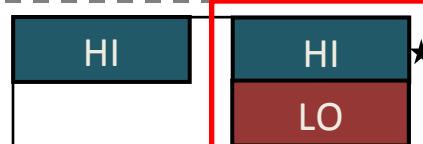


2



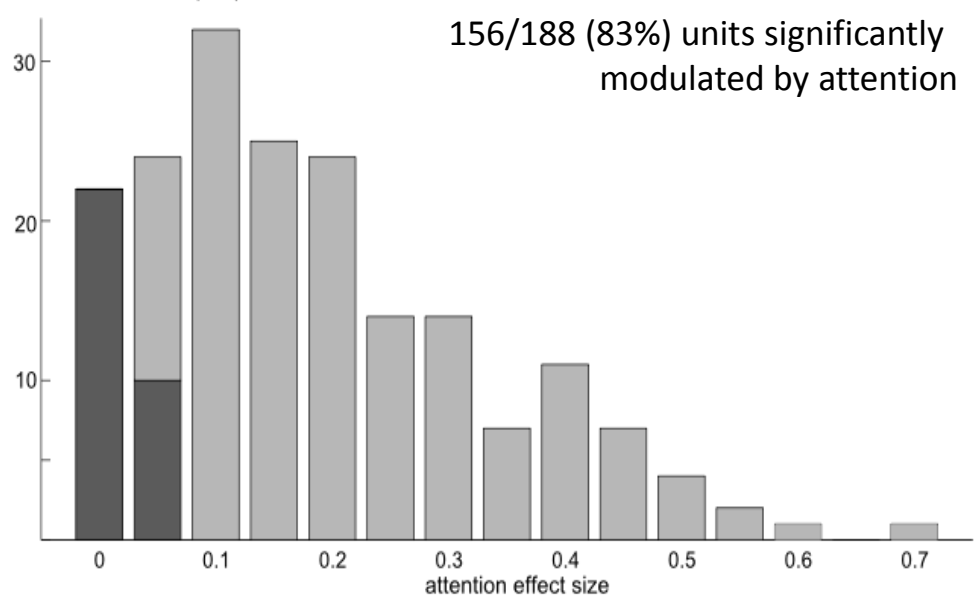
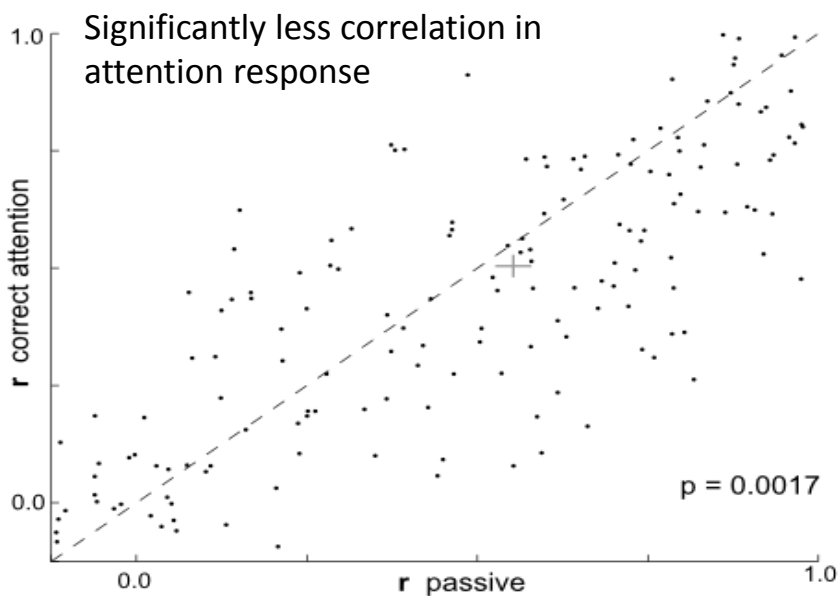
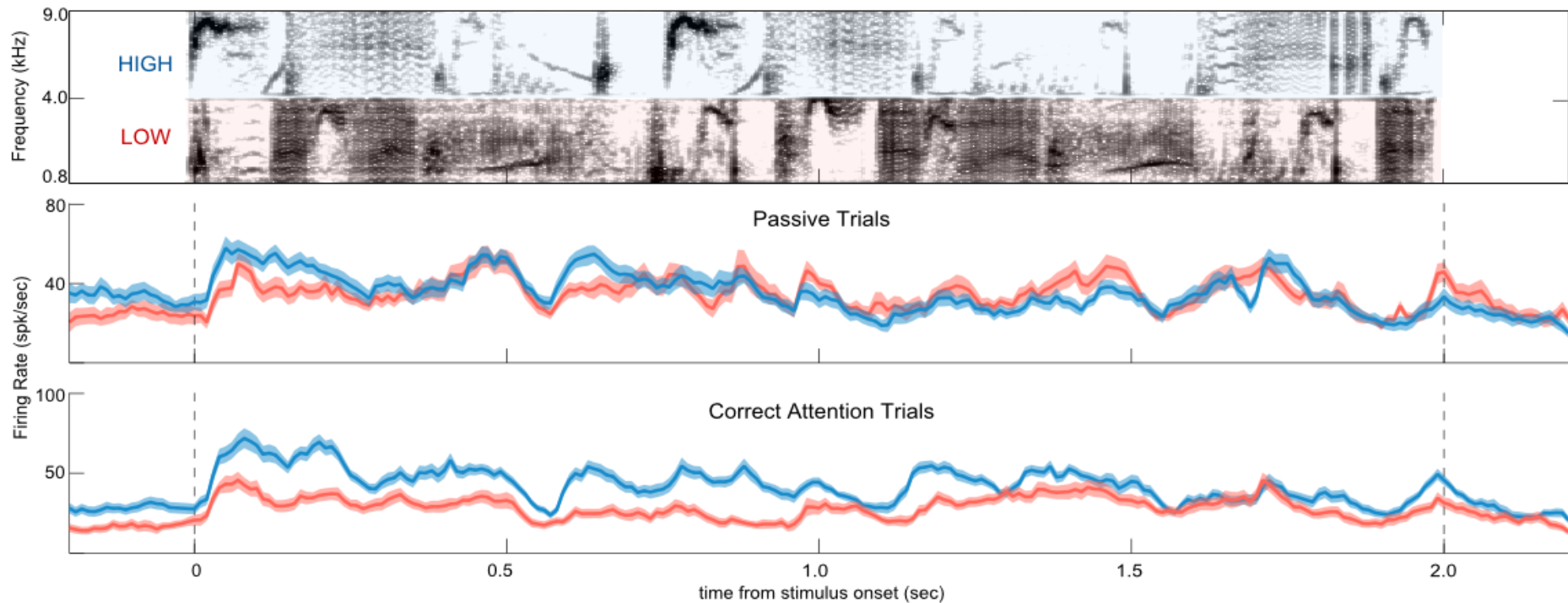
...

Final

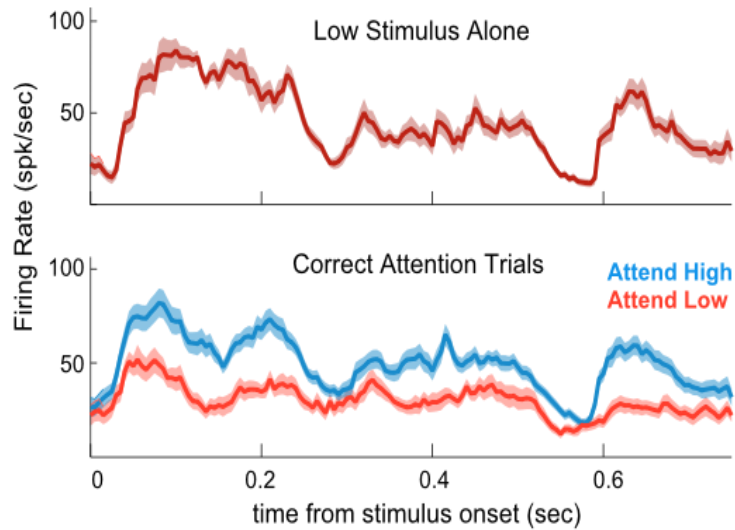


time →

Attention modulates activity of auditory neurons



Narrow Spiking Cells Respond more like the Ignored Stimulus



Stim Alone – Attend Stim
Vs
Stim Alone – Ignore Stim

Response Bias:

POSITIVE if response is more like **attended** stimulus

NEGATIVE if response is more like **ignored** stimulus

