



Computational Neuroscience

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YOURS FOR THE TAKING

Why listen to a sermon on CNS?

Where we've come and where we're headed

"Back to biology" friends!

Am I doing something worth talking about

'Round the globe – worthy mentions

A pinch of motivation ... Perhaps?

AND THE STORY BEGINS

...

Buzzwords!

Solid backing?

Do we even
know enough?

Models and
their
implications

Some irony
for you 😊

Delve a little
deeper ...

ADVANCES IN CNS

Measurements:
Where does
data come
from?

Voltage clamp

Hodgkin
Huxley

Recording
techniques

Neuron
activity

Wait a sec . . .
Activity?

Potentials

Channels

Pumps and diffusion

Gradients

Action potential

Revisit Hodgkin Huxley

A PAGE FROM THE BIO-BAG



THESIS TIME

- Olfaction and the piriform cortex
- Data – nature, quantity, quality
- Identifying patterns – enter ML
- Approaches in literature
- Why is stuff this hard!
- So what ... ?

CHAT TIME!

Suspensions
about ML

Decoding vs
Encoding

Extensions
from thesis

CNS WORLD – AT YOUR DOORSTEP



- Sensory systems
- Learning & Memory
- Neurobiology of time!

CHAT TIME AGAIN!



THAT'S ALL FOLKS

