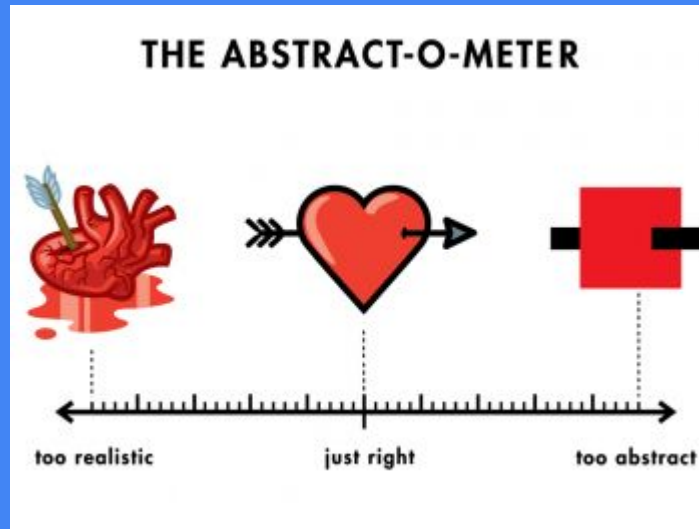


About this course

Maria Kesa, Sille Paas

This course is FOR EVERYONE! Everyone should have access to scientific insights into brain function in the 21st century!



This course exists to excite people about neuroscience and encourage them to delve further!

Some free resources to let you continue the journey:

Gerstner et al, “Neuronal Dynamics”, free book and Python exercises

<https://neurondynamics.epfl.ch/>

Fee, MIT OCW free lectures, “Introduction to Neural Computation”,

<https://ocw.mit.edu/courses/brain-and-cognitive-sciences/9-40-introduction-to-neural-computation-spring-2018/>

White, Coursera free lectures (relatively small fee for certificate),
“Medical Neuroscience”

<https://www.coursera.org/learn/medical-neuroscience>

NeuroMatch Academy

<https://github.com/NeuromatchAcademy/course-content>

Course outline

There will be 5 lectures:

1. Spikes
2. Spike trains
3. Neural networks and reinforcement learning
4. Neural activity in 1000 dimensions
5. Whole-brain imaging

Each lecture will be followed by a live coding session and a Q&A conversation with a non-specialist.

Hey, you wanna
Study neuroscience
Join the Alliance
Hey, you wanna
Study brains
Get up on
That train
Hey, you want
A scientific spin
On consciousness
Can't stand
No nonsense
Wanna understand
The mechanisms
Of mental illness
Hey, you wanna
See those ion channels
Open
As doors open

Want to simulate
Some Hodgkin-Huxley
Read that fMRI paper
By Haxby
No problem, amigo
Read this credo
Have you got
What it takes
Will you refrain
From slamming
The brakes
Will you go
All the way
Implement
The optogenetic ray
Do you crave
The knowledge
Well then
Eat your porridge

Run your mile
Thinking of spike generation
All the while
Don't stop
Let it drop
The world
Will be amazed
The society
Will be phased
As knowledge is common
Science blossoms
Do you have
What it takes
Raise the stakes
Do a PhD
Do a PostDoc
Decrypt the
Brain's mysteries lock



Enjoy!

It's an epic
adventure!

“This is a super-important quote”



- From an expert

This is the most
important takeaway
that everyone has to
remember.

Thanks!

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