Developing Interactive GUI for a Neural Network Simulation

Project # 18

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Project specification

The platform of my study:

An abstract neural network model of the hippocampal CA3 area.
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Required skills

The c-code is modified by Cython so that the variables can be called and visualized in Python.

VizCAN software
Next step

- Port a new c-code into **Python** using **Cython**.

- Modify the GUI so that it can incorporate new panels for interaction with the c-codes.

- Substitute **matplotlib** with **pygraph**.
Structure of the study project

- Suitable for 2 MA or BA students.
  
  → Required knowledge: Python, C, Cython, Qt

- Regular weekly meetings.

- Constant evaluation/collaboration on the development of the code by using a GIT repository.
What you gain

- Experience of working together on an exciting project.

- Getting to know the field of the computational neuroscience, by working on a model of the hippocampal system.
Who am I?

- PhD in Computational Neuroscience 2014
- Masters in Physics
- Life-long experience of programming in different languages!

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