## Paul S. Scotti

scottibrain@gmail.com | www.paulscotti.com

6/25/2021

Dear Hiring Manager,

I am a Cognitive Psychology/Neuroscience PhD student going into my final year at The Ohio State University. I am applying for the **Computational Neuroscience PhD Residency** because I have experience simulating neuronal populations in line with my neuroimaging experience.

I have simulated neurons to showcase improvements to inverted encoding models, a commonly used technique to decode experimental conditions/stimuli in neuroimaging. This work is available online as a preprint (bioRxiv preprint) and has been released as a Python package which is already being used by hundreds of researchers in the field (pypi.org/project/inverted-encoding).

Another example of my work is EduCortex (paulscotti.github.io/educortex), a browser-based 3D brain visualization tool to display fMRI meta-analysis maps (published in JOSE). This work is the result of me leading a team at NeuroHackademy, a summer school oriented towards neuroimagers and data scientists.

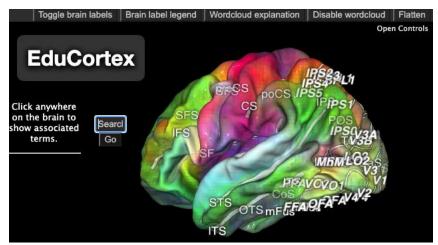


Figure 1. Screenshot of EduCortex, an educational tool to learn about functional specialization of the brain from fMRI meta-analysis maps.

I hope that this prior experience would be useful to working at X, Paul