∷ Contents

<u>Databases of models</u> <u>Additional resources</u>

Print to PDF

Guide to choosing a Theory project

July 5-23, 2021

Pure theory projects are usually pursued by more advanced students. If your group is relatively new to neuroscience, you should consider doing a dataset project *and* include a theory component to it.

Every group can bring up and discuss theory projects. We have two example project templates for this that include code. However, a theory project can go in any direction.



Databases of models

Here is a list of cool databases you might want to use to look for existing models, computational analyses / data processing tools and data.

Name	Model?	Analyses?	Data?	Description	
BioModels	:+1:			BioModels is a repository of mathematical models of biological and biomedical systems. It hosts a vast selection of existing literature-based physiologically and pharmaceutically relevant mechanistic models in standard formats.	
<u>ModelDB</u>	:+1:			ModelDB provides an accessible location for storing and efficiently retrieving computational neuroscience models. A ModelDB entry contains a model's source code, concise description, and a citation of the article that published it.	
Open Source Brain	:+1:			Open Source Brain is a resource for sharing and collaboratively developing computational models of neural systems.	
<u>CRCNS</u>	:+1:	:+1:	:+1:	CRCNS Data sharing website is a marketplace and discussion forum for sharing tools and data in neuroscience	
<u>EEGbase</u>		:+1:	:+1:	EEGbase is a system for storage, management, sharing and retrieval of EEG/ERP data, metadata, tools and documents related to electrophysiology.	
INCF resources	:+1:	:+1:	:+1:	A list of resources endorsed by INCF .	
<u>NITRC</u>	:+1:	:+1:	:+1:	NeuroImaging Tools & Resources Collaboratory is an award-winning free web-based resource that offers comprehensive information on an ever expanding scope of neuroinformatics software and data.	

Additional resources

figshare A database of everything research related that's openly shared Google Dataset search Lets you do a Google search specifically to find datasets search NeuroVault A public repository of unthresholded statistical maps, parcellations, and atlases of the brain. (MRI and PET) KnowledgeSpace A globally-used, community-based, data-driven encyclopedia for neuroscience that links brain research concepts to data, models, and the literature that support them.	Name	Description	
NeuroVault A public repository of unthresholded statistical maps, parcellations, and atlases of the brain. (MRI and PET) KnowledgeSpace A globally-used, community-based, data-driven encyclopedia for neuroscience that links	<u>figshare</u>	A database of everything research related that's openly shared	
(MRI and PET) KnowledgeSpace A globally-used, community-based, data-driven encyclopedia for neuroscience that links		Lets you do a Google search specifically to find datasets	
	<u>NeuroVault</u>		
	KnowledgeSpace		

By Neuromatch

© Copyright 2021.