## **Review Checklist for Quiz #2**

All material for the topics below covered from 11/6 is fair game.

# Connectomics

Basic Neuroanatomy Segmentation Algorithms for Neural Volumes: Classical Approaches (non-learning) Segmentation Algorithms for Neural Volumes: Machine Learning-based Approaches

## Artificial Neural Networks with Anatomical Fidelity

Basic Principles from Graph Theory that Apply to the Brain Recurrent Neural Networks Connectivity Matrices Strategies for Creating Networks with Anatomical Fidelity

## Artificial Neural Networks with Functional Fidelity

Tuning Curves Representational Dissimilarity Matrices Spike Trains Spiking Neural Networks

#### **Probabilistic Read-Out Layers for Artificial Neural Networks**

Probability Theory Bayes' Theorem Bayesian Hierarchical Modelling Bayesian Hierarchical Modelling Combined with ANNs