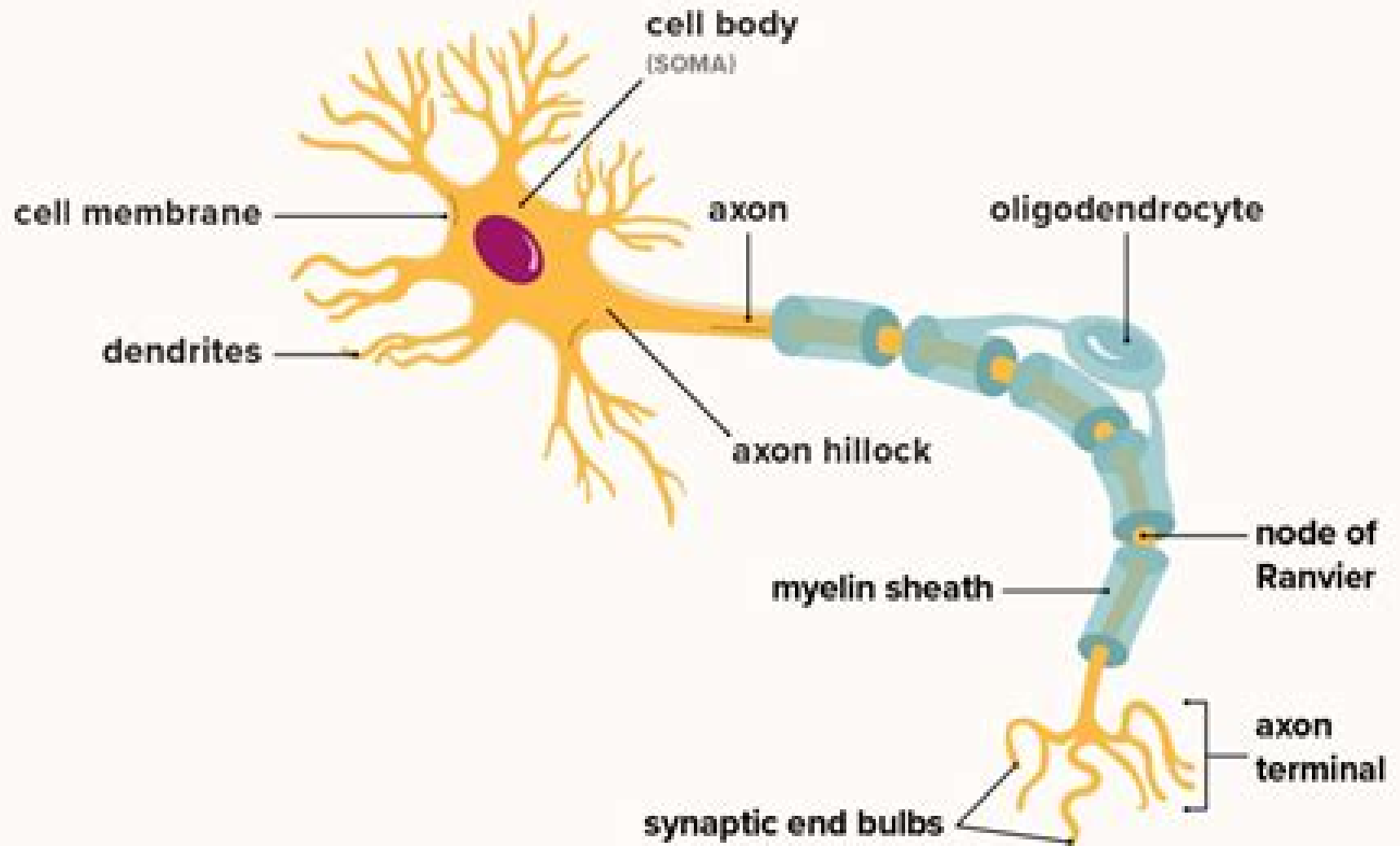


Structure of a neuron



Model Parts Of A Neuron Pogil

Amol Gharat



Model Parts Of A Neuron Pogil:

Models of the Stochastic Activity of Neurones Arun V. Holden,1976 **Spiking Neuron Models** Wulfram

Gerstner, Werner M. Kistler, 2002-08-15 Neurons in the brain communicate by short electrical pulses the so called action potentials or spikes How can we understand the process of spike generation How can we understand information transmission by neurons What happens if thousands of neurons are coupled together in a seemingly random network How does the network connectivity determine the activity patterns And vice versa how does the spike activity influence the connectivity pattern These questions are addressed in this 2002 introduction to spiking neurons aimed at those taking courses in computational neuroscience theoretical biology biophysics or neural networks The approach will suit students of physics mathematics or computer science it will also be useful for biologists who are interested in mathematical modelling The text is enhanced by many worked examples and illustrations There are no mathematical prerequisites beyond what the audience would meet as undergraduates more advanced techniques are introduced in an elementary concrete fashion when needed **A Proposed Model for Visual Information Processing in the Human Brain** Matthew Kabrisky, 1966

Nonlinear Subunit Models of Neuronal Receptive Fields in the Early Visual Pathway Amol Gharat, 2018 Our visual system is sensitive to boundaries defined by differences in cues such as luminance first order cue as well as texture contrast or motion second order cues Gradients in these cues can be utilized to perform tasks such as figure ground segregation and 3D shape perception A significant fraction of neurons in the early visual cortex of cats and monkeys have been shown to be selective to both first and second order boundaries These neurons are thought to be the neural correlate for perceptual encoding of such boundaries They are selective for the same boundary orientation irrespective of the cue first or second order that defines it form cue invariance which makes these neurons powerful candidates for the task of segmentation However the neural circuitry that gives rise to this selectivity for the early stages of visual processing remains unclear To address this question I perform neurophysiological recordings at the early stages of the visual pathway in cats and then build biologically inspired neural circuit models that can account for visual response properties of neurons at subcortical as well as early cortical stages In Chapter 2 I use multi electrode recordings to demonstrate the presence of a significant fraction of neurons in cat Area 18 with nonlinear receptive fields like those of subcortical Y type cells These neurons have receptive field properties intermediate between subcortical Y cells and cortical orientation selective cue invariant neurons These are strong candidates for building cue invariant orientation selective neurons Furthermore I present a novel neural circuit model that pools such Y like neurons in an unbalanced push pull manner to generate orientation selective cue invariant receptive fields In Chapter 3 I estimate biologically constrained neural network models of cat LGN receptive fields using recent machine learning methods deep learning The receptive fields are modeled as arising from a two stage convolutional neural network model The first stage corresponding to retinal bipolar cell subunits is modeled as a

convolutional filter layer and the second stage is modeled as a pooling layer. These two layers are separated by an intermediate parametric nonlinearity. I train such a neural network model for each recorded LGN neuron using its spiking responses to naturalistic texture stimuli. These models are not only better in comparison to the standard linear nonlinear models at predicting response to arbitrary stimuli but they also recover biologically interpretable subunit models. In chapter 4 I evaluate the integration of ON and OFF pathway inputs by individual neurons in early cortical areas of the cat Area 17 and Area 18. In this study I model receptive fields of cortical simple cells as a linear weighted sum of rectified inputs from model ON and OFF center LGN afferents with the weights estimated using a regression framework. The estimated models reveal significant asymmetries in spatiotemporal integration of ON and OFF signals within simple cell receptive fields. These observed asymmetries could provide the neural mechanism for generating cue invariant receptive fields from Y pathway inputs. In summary I put together our knowledge of retinal as well as early cortical processing to show how spatial nonlinearities emerging from the retina could provide an essential basis for cortical visual processing. I further evaluate these neural mechanisms by estimating single neuron receptive field models using modern system identification methods. Finally I propose and provide supportive evidence for a novel neural circuit mechanism that could explain the cue invariant processing of luminance and texture defined boundaries through a common pathway.

Morphologically Simplified Conductance Based Neuron Models Eric B. Hendrickson, 2010. The dynamics of biological neural networks are of great interest to neuroscientists and are frequently studied using conductance based compartmental neuron models. For speed and ease of use neuron models are often reduced in morphological complexity. This reduction may affect input processing and prevent the accurate reproduction of neural dynamics. However such effects are not yet well understood. Therefore for my first aim I analyzed the processing capabilities of branched or unbranched reduced models by collapsing the dendritic tree of a morphologically realistic full globus pallidus neuron model while maintaining all other model parameters. Branched models maintained the original detailed branching structure of the full model while the unbranched models did not. I found that full model responses to somatic inputs were generally preserved by both types of reduced model but that branched reduced models were better able to maintain responses to dendritic inputs. However inputs that caused dendritic sodium spikes for instance could not be accurately reproduced by any reduced model. Based on my analyses I provide recommendations on how to construct reduced models and indicate suitable applications for different levels of reduction. In particular I recommend that unbranched reduced models be used for fast searches of parameter space given somatic input output data. The intrinsic electrical properties of neurons depend on the modifiable behavior of their ion channels. Obtaining a quality match between recorded voltage traces and the output of a conductance based compartmental neuron model depends on accurate estimates of the kinetic parameters of the channels in the biological neuron. Indeed mismatches in channel kinetics may be detectable as failures to match somatic neural recordings when tuning model conductance densities. In my first aim I showed that this is

a task for which unbranched reduced models are ideally suited Therefore for my second aim I optimized unbranched reduced model parameters to match three experimentally characterized globus pallidus neurons by performing two stages of automated searches In the first stage I set conductance densities free and found that even the best matches to experimental data exhibited unavoidable problems I hypothesized that these mismatches were due to limitations in channel model kinetics To test this hypothesis I performed a second stage of searches with free channel kinetics and observed decreases in the mismatches from the first stage Additionally some kinetic parameters consistently shifted to new values in multiple cells suggesting the possibility for tailored improvements to channel models Given my results and the potential for cell specific modulation of channel kinetics I recommend that experimental kinetic data be considered as a starting point rather than as a gold standard for the development of neuron models

Characterization of Neuron Models William Boatin, 2005 Modern neuron models are large complex entities The ability to better simulate these complex models has been driven by the development of ever more powerful and cheap computers The capacity to manage and understand the models has lagged behind improvements in simulation ability almost from the inception of neuron modeling Despite the computing power currently available more powerful simulation platforms and strategies are needed to cope with current and next generation neuron models This thesis develops methodologies aimed at better characterizing motoneuron models The hypothesis presented is that relationships between model outputs in addition to the relationships between model inputs parameters and outputs behaviors provide a characteristic description of the model that describes the model in a more useful way than just model behaviors This description can be used to compare a model to different implementations of the same motoneuron and to experiment data Data mining and data reduction techniques were used to process the data Principal component analysis was used to indicate a significant consistent reduction in dimensionality in an intermediate mechanistic layer between model inputs and outputs This layer represents the non linear relationships between input and output implying that if the non linear relationships of a model were better understood and accessible a model could be manipulated by varying the mechanism layer members or rather the model parameters that primarily affect a mechanism layer member Hierarchical cluster analysis showed similarity between sensitivity analyses data from models with random parameter sets A main cluster represented the main region of model behavior with outlying clusters representing non physiological behavior This indicates that sensitivity analysis data is a good candidate for a model signature The results demonstrate the usefulness of cluster analysis in identifying the similarities between data used as a model characterization metric or model signature Its application is also valuable in identifying the main region of useful activity of a model thus helping to identify a potential average parameter set Furthermore factor analysis also proves functional in identifying members of the mechanism layer as well as the degree to which model outputs are affected by these members

Simple Neuron Models for Independent Component Analysis Aapo Hyvärinen, Erkki Oja, 1996 **A Model for the Neuron Cell Membrane** Wolf Kohn, 1974

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