

Computational modelling at the Silver Lab

NeuroML, Open Source Brain, OpenWorm, MDF

Ankur Sinha

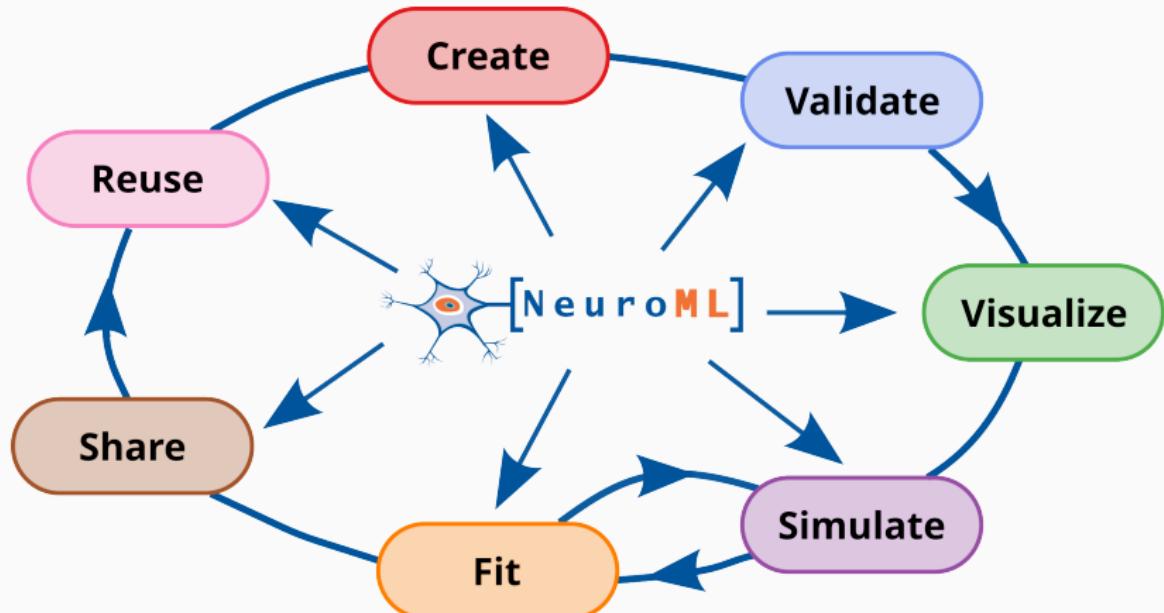
Padraig Gleeson

R Angus Silver

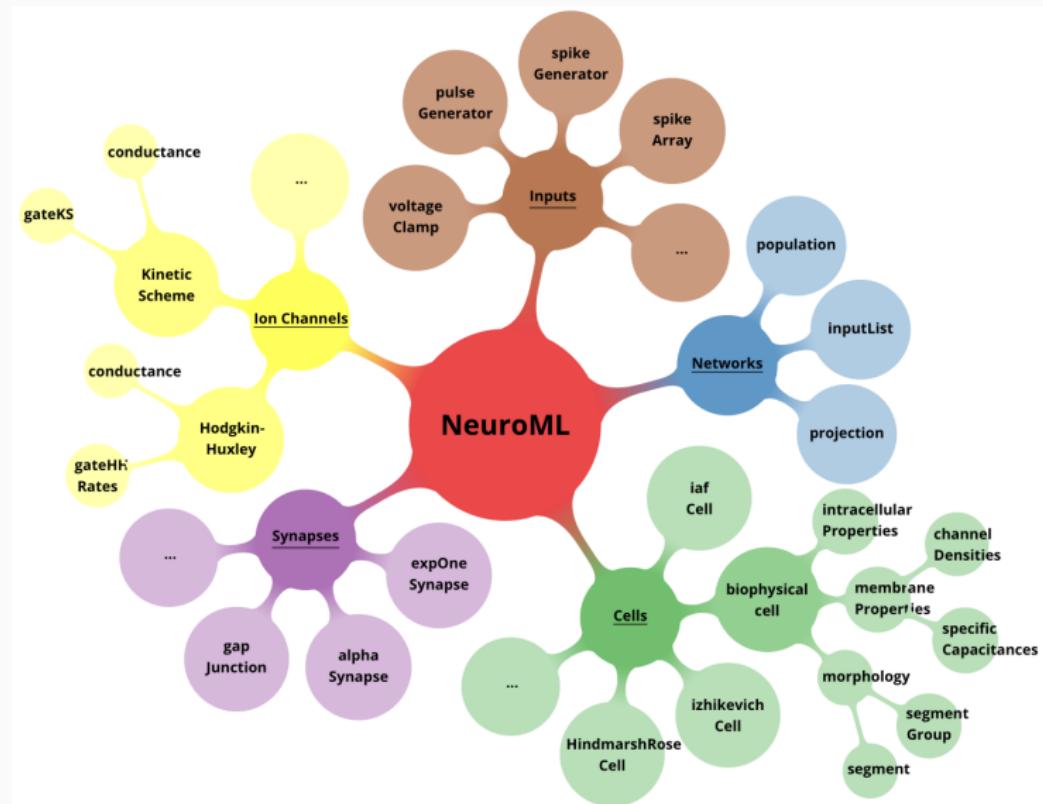
<https://silverlab.org>

2024-10-21

NeuroML: data driven biophysically detailed modelling

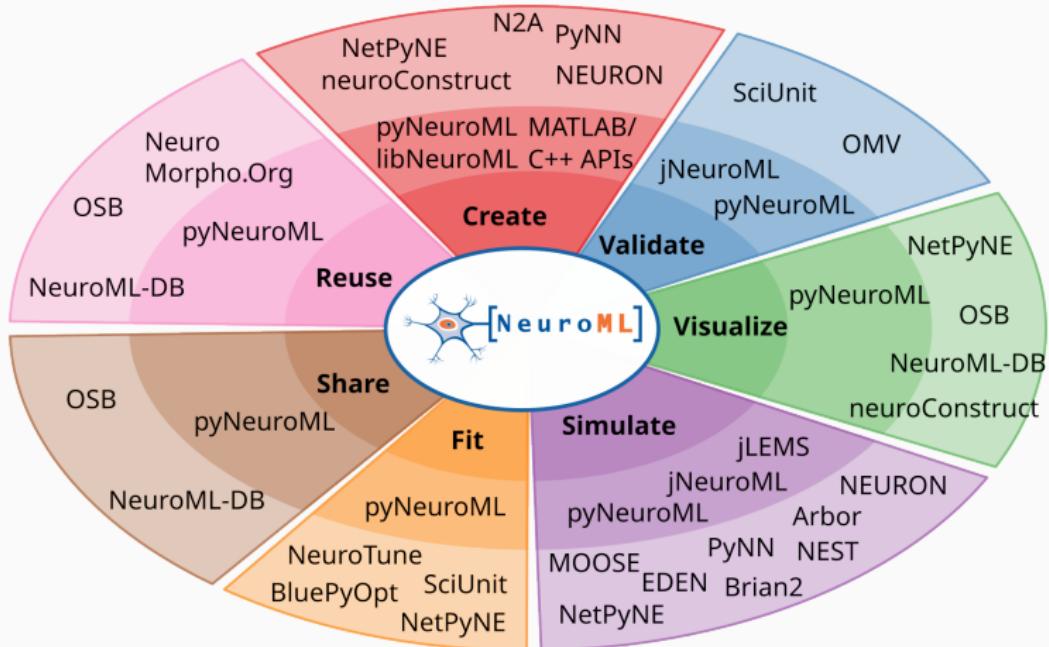


NeuroML standard: curated model elements

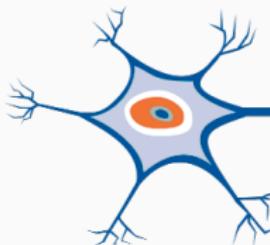


¹ Full standard is at: <https://docs.neuroml.org/Userdocs/Specification.html>

NeuroML software ecosystem



NeuroML: linking with other standards



[NeuroML]



SOML

NeuroML: publication

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The NeuroML ecosystem for standardized multi-scale modeling in neuroscience

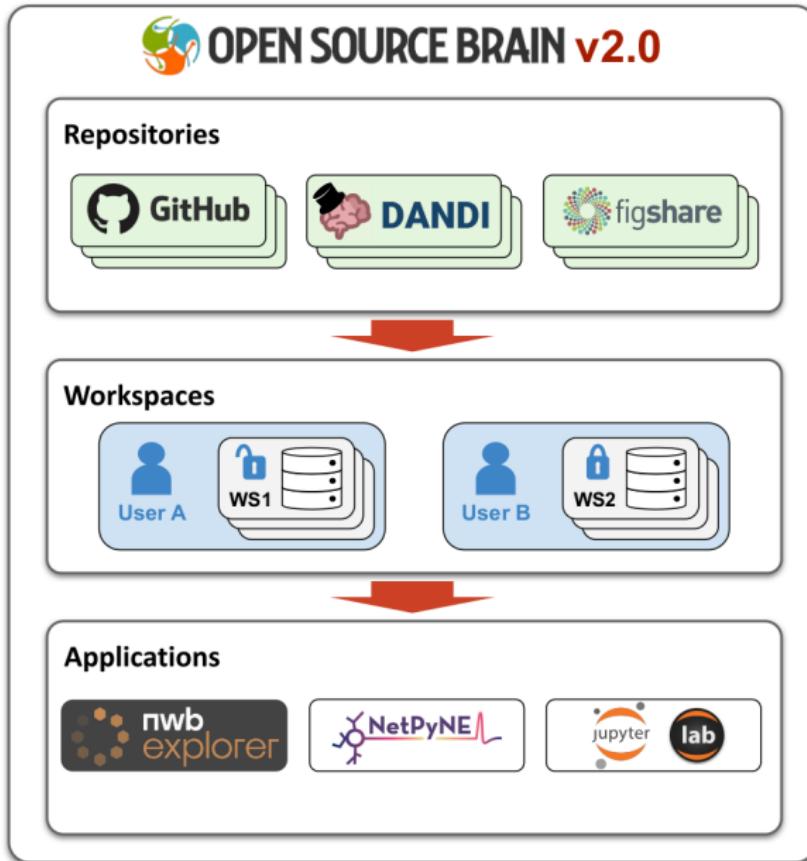
Ankur Sinha, Padraig Gleeson ✉, Bóris Marin, Salvador Dura-Bernal, Sotirios Panagiotou, Sharon Crook, Matteo Cantarelli, Robert C. Cannon, Andrew P. Davison ... R. Angus Silver ✉ ... [show 1 more](#)

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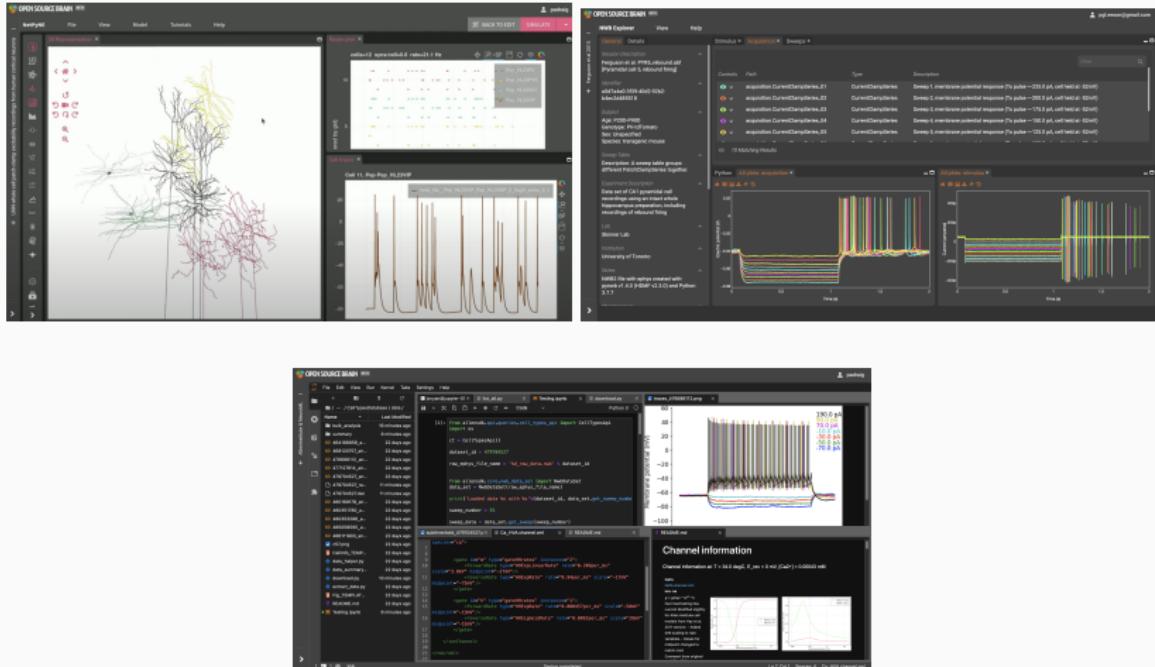
<https://doi.org/10.7554/eLife.95135.1>

<https://docs.neuroml.org>

Open Source Brain: scalable integrated research environment

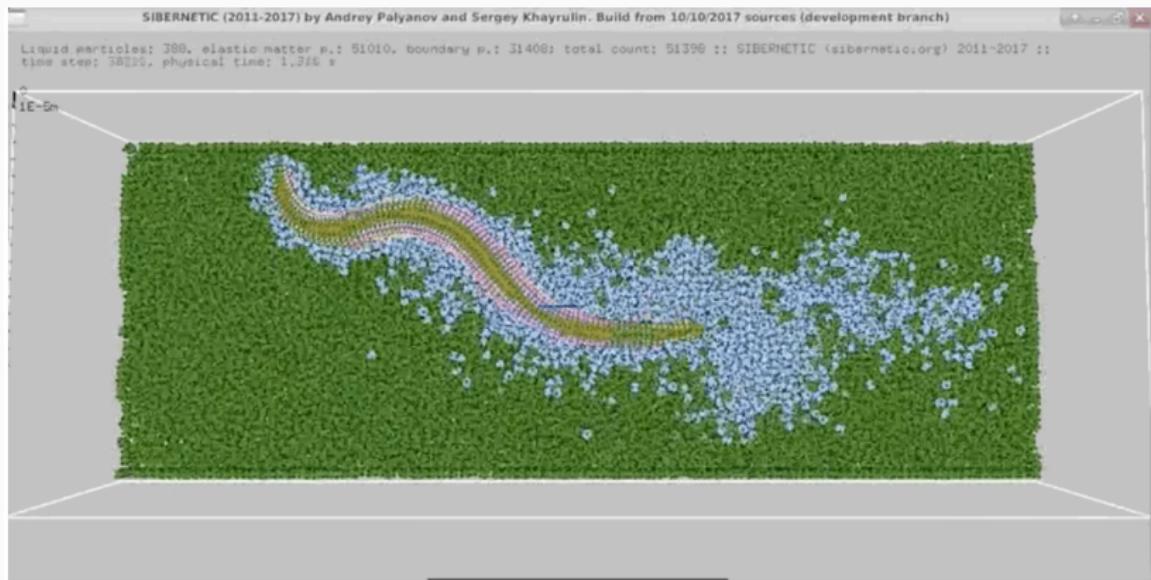


Open Source Brain: applications



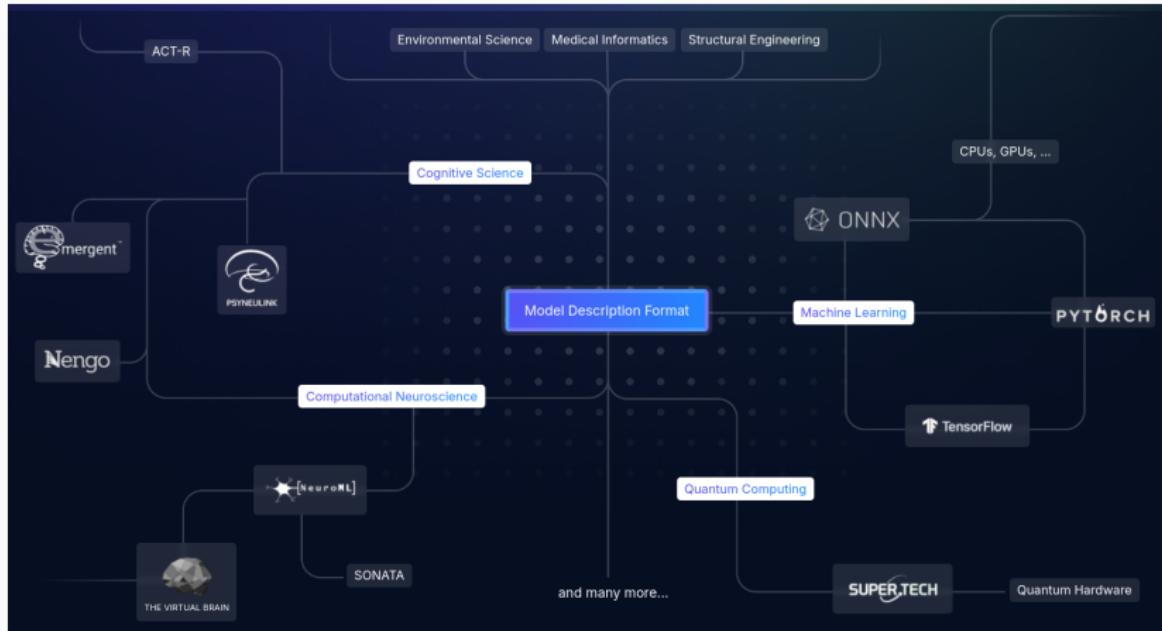
<https://opensourcebrain.org>

Open Worm: open C elegans modelling and research



<https://openworm.org>

MDF: linking different types of modelling



<https://modeci.org>