NOMADS

Neurodata's **O**pensource **M**ethod for
Autonomous **D**etection of **S**ynapses

LAST WEEK

- Unsupervised Pipeline Benchmark
- “*Just look at it!*”™ Pipeline Predictions
- New Sprint 2 Goals

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- Unsupervised Pipeline Benchmark ☑
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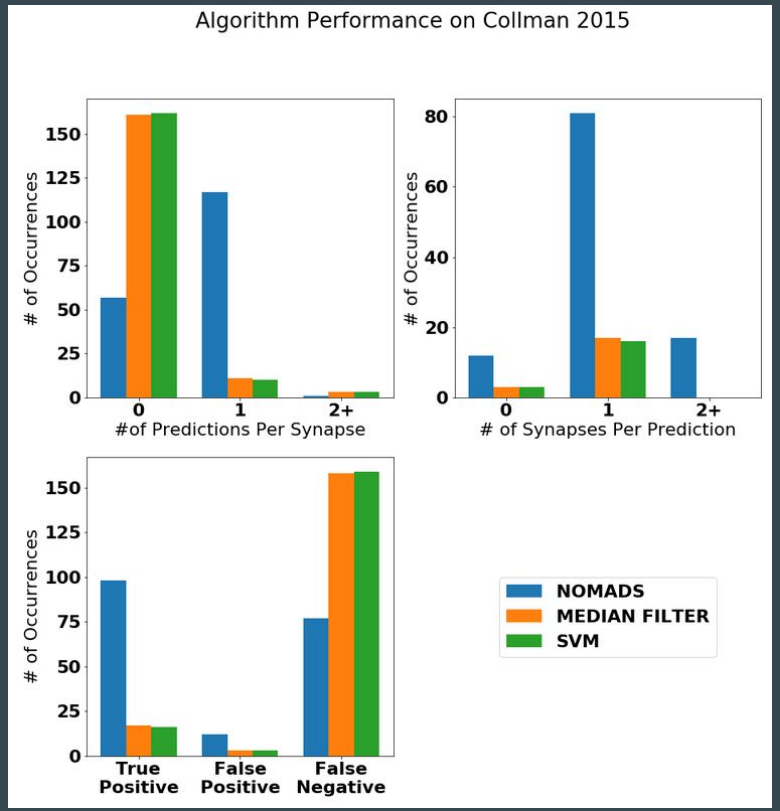
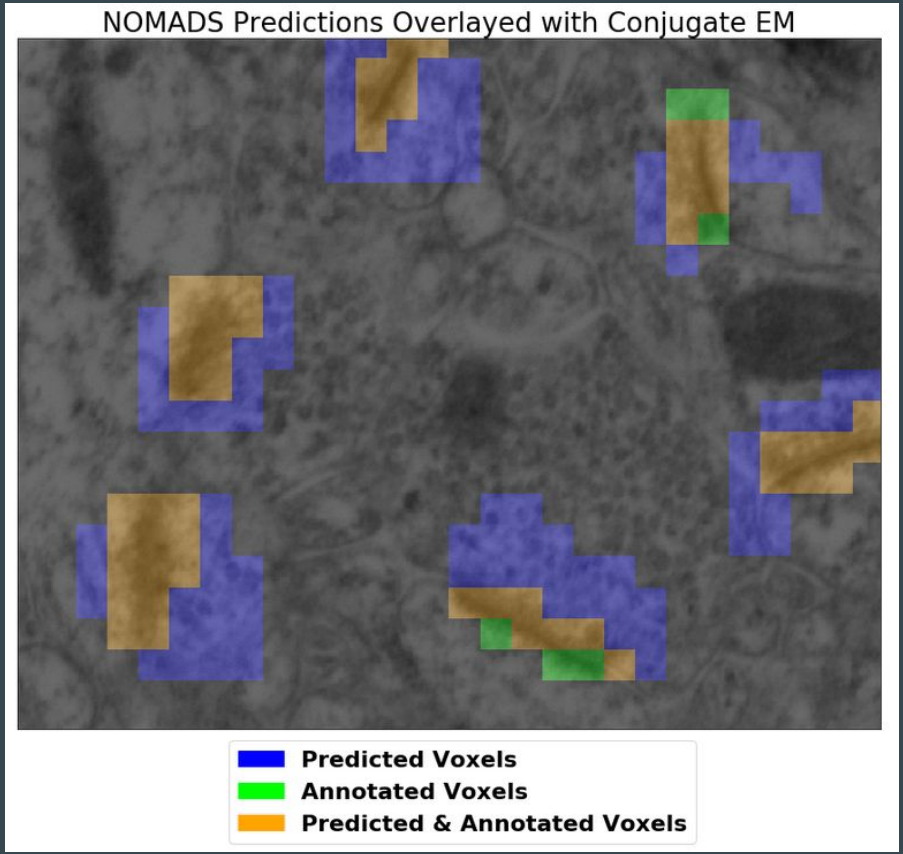
Nomads Beats Everyone at Finding Synapses



“Just look at it!”™ NOMADS Predictions



New Sprint 2 Goals

Sprint	Due Date	Requirements
Sprint 2	12/15(?)	● Iterate on MVP unsupervised method ○ Quantitative comparison of all algorithm iterations ○ Updated Unsupervised Alg Deployed on Docker ● **Meaningful visualizations for predictions** ● ~~MVP algorithm for synapse detection (supervised)~~ ○ ~~Using labels generated last sprint~~

How to visualize multispectral data?

- We want to visualize the predictions of an algorithm.
  - Use or extend MEDA
- Explore different features (e.g. integrated intensity, mean intensity)
  - Important for clustering
- DoD: Final set of visualizations and features

NEXT WEEK

- *“Just look at it”™* of False Negatives
  - DoD: Notebook with the analysis
- *“Just look at it”™* of True Positives and False Negatives using MEDA
  - DoD: R markdown