

NeuroData SIMPLEX Report: February 2017

The following report documents the progress made by the labs of PI Joshua T. Vogelstein and Co-PIs Randal Burns and Carey Priebe at Johns Hopkins University towards goals set by the DARPA SIMPLEX grant.

Contents

1 Bibliography	2
2 Data: What's in the Cloud	3
3 Statistical Theory and Methods	4
3.1 LOL @jovo	4
3.2 RerF	5
3.3 Multiscale Generalized Correlation (MGC)	6
4 Scalable Algorithm Implementations	7
4.1 FlashX	7
4.2 ndstore	8
4.3 ndviz	9
4.4 knor	10
5 Scientific Pipelines: Infrastructure & Dataset Specific Progress	11
5.1 ndstore	11
5.2 ndmg	11
5.3 ndviz	11
5.4 MRI	11
5.5 CLARITY	11
5.6 Ophys	11

1 Bibliography

Manuscripts

[1] J. T. Vogelstein, “Paper with a cool title,” 2017.

Invited Talks

[1] J. T. Vogelstein, “Talk with a cool title,” SIAM, JSM, NIPS, ???, Jan 2017.

Conferences

[1] J. T. Vogelstein, “Poster with a cool title,” SIAM, JSM, NIPS, ???, Jan 2017.

2 Data: What's in the Cloud

3 Statistical Theory and Methods

3.1 LOL @jovo

Your content here. Please make sure that it fits on one page.



Figure 1: Please provide a detailed caption for your figure.

3.2 RerF

Your content here. Please make sure that it fits on one page.



Figure 2: Please provide a detailed caption for your figure.

3.3 Multiscale Generalized Correlation (MGC)

Your content here. Please make sure that it fits on one page.



Figure 3: Please provide a detailed caption for your figure.

4 Scalable Algorithm Implementations

4.1 FlashX

Your content here. Please make sure that it fits on one page.



Figure 4: Please provide a detailed caption for your figure.

4.2 ndstore

Your content here. Please make sure that it fits on one page.



Figure 5: Please provide a detailed caption for your figure.

4.3 ndviz

Your content here. Please make sure that it fits on one page.



Figure 6: Please provide a detailed caption for your figure.

4.4 knor

Your content here. Please make sure that it fits on one page.



Figure 7: Please provide a detailed caption for your figure.

5 Scientific Pipelines: Infrastructure & Dataset Specific Progress

5.1 `ndstore`

5.2 `ndmg`

5.3 `ndviz`

5.4 `MRI`

5.5 `CLARITY`

5.6 `Ophys`

References