

TransiNet for LSST: **Deep Transient Detection** towards Higher Completeness in the **Unseen Domain** 

Nima Sedaghat AI Lead, LSST

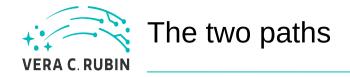


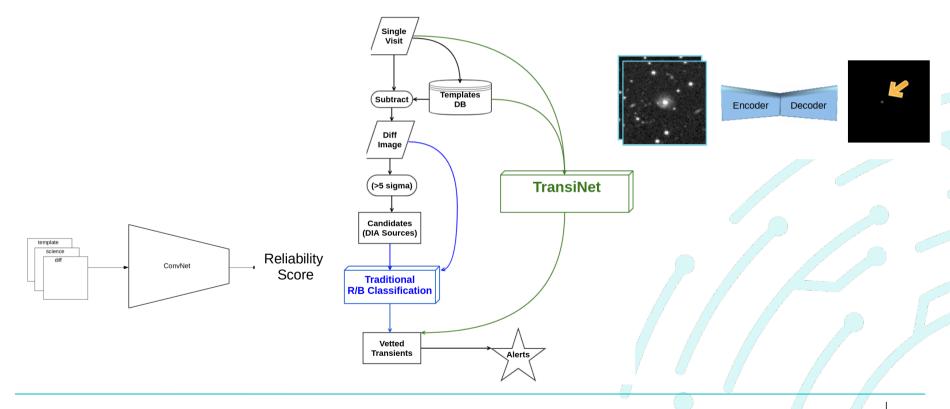


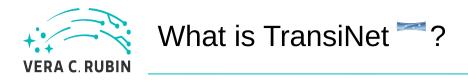




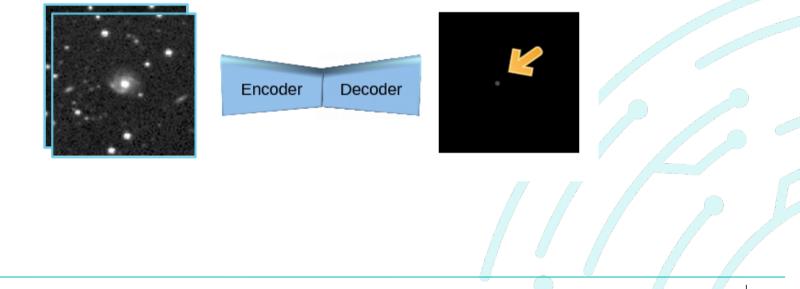






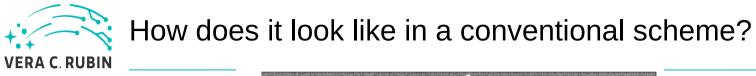


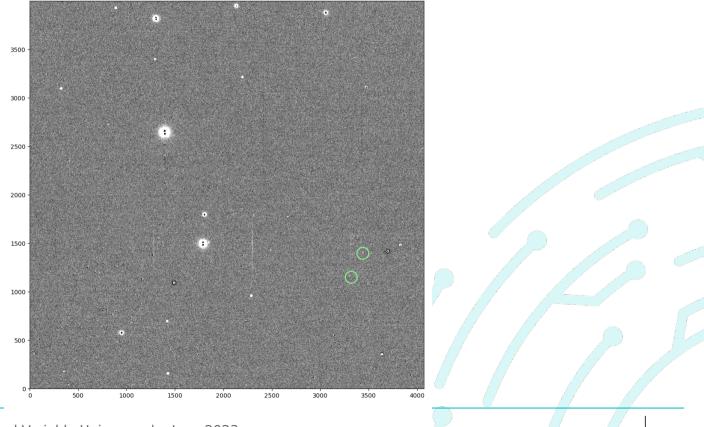
## Image-generating Deep ConvNet for Transient Hunting Since 2018!

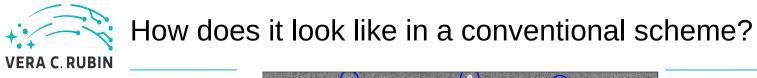


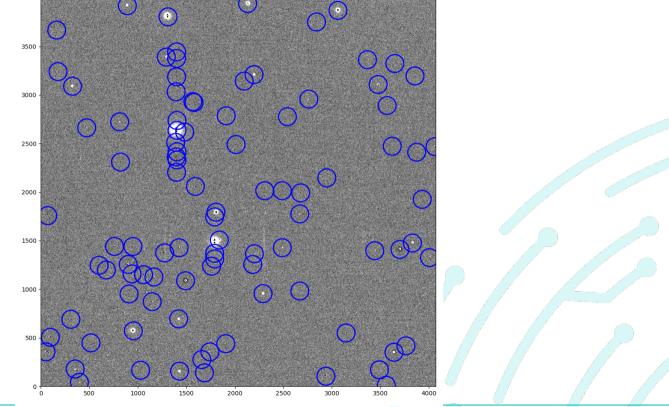


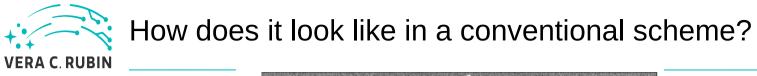
Completeness: The 5-sigma tradition Covariate Shift & Domain Adaptation

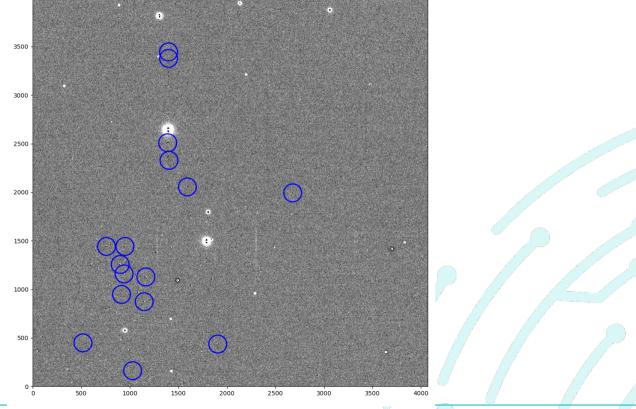


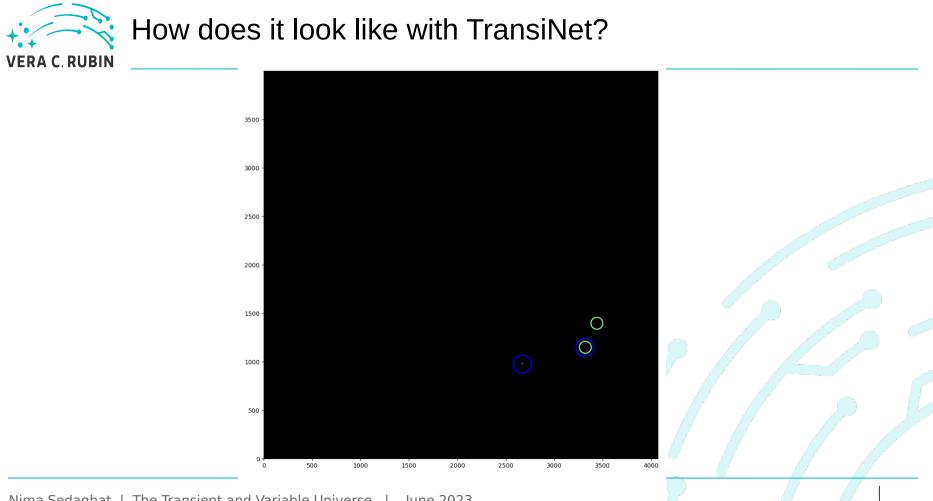




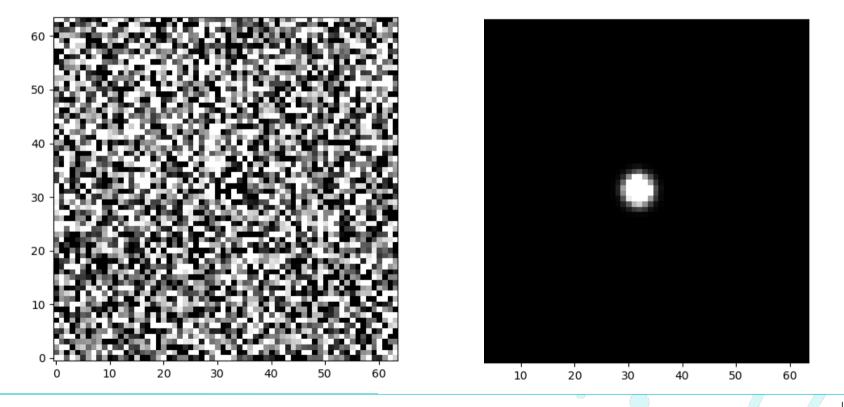


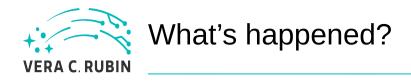


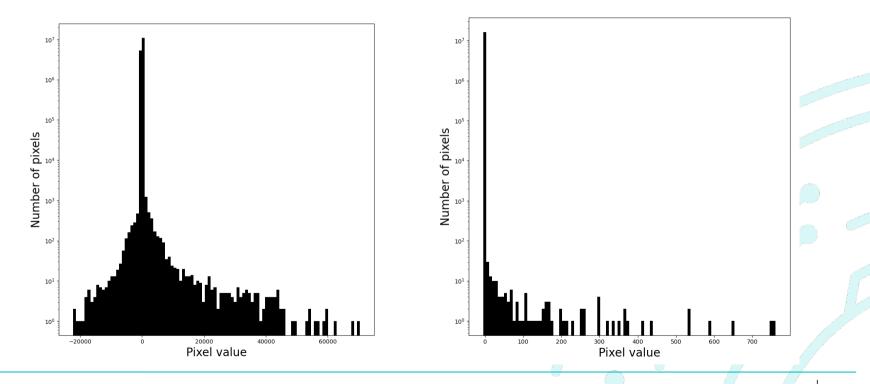


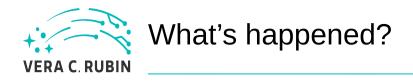


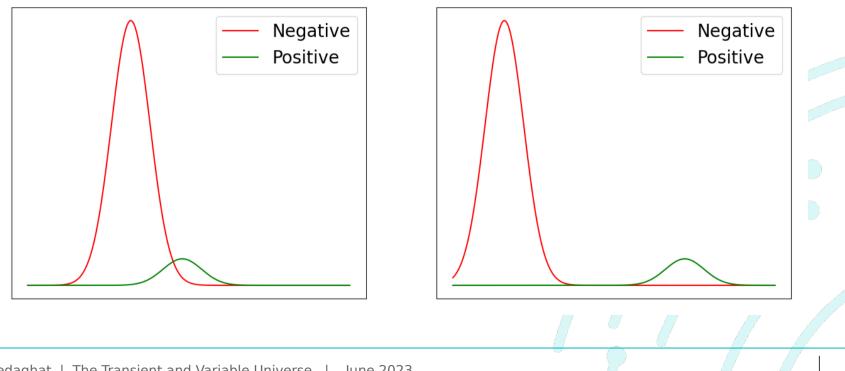


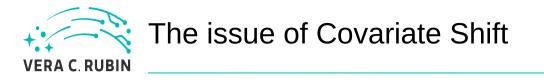


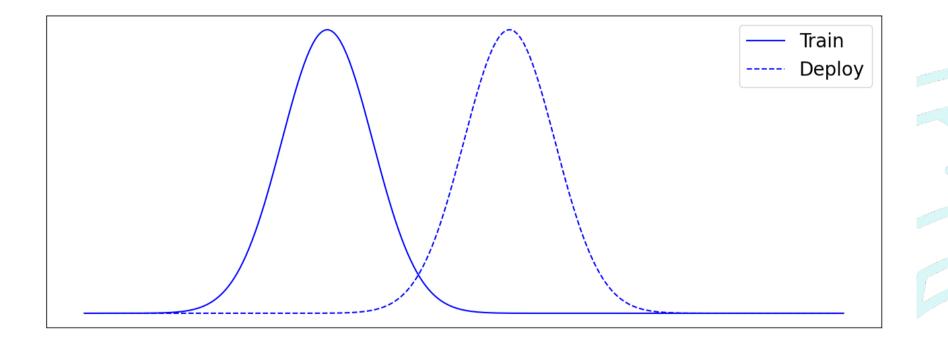


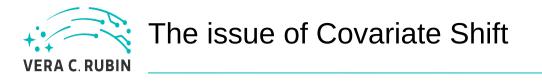


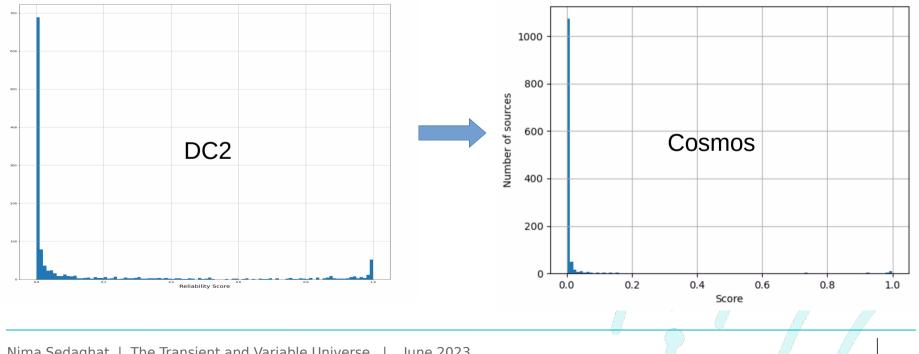


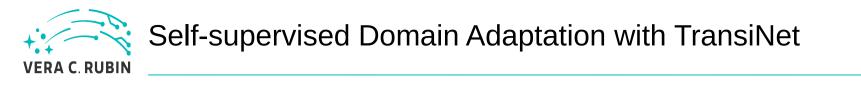


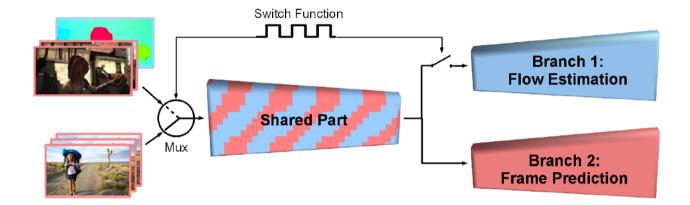




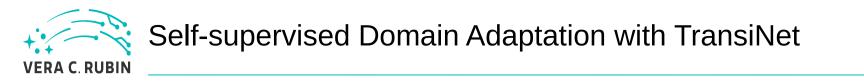


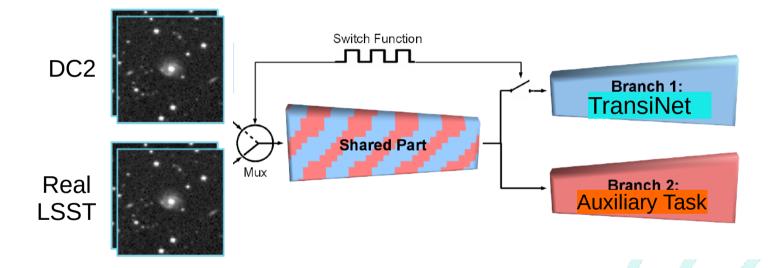




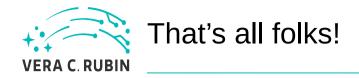


NextFlow: Hybrid Learning of Optical Flow and Next Frame Prediction to Boost Optical Flow in the Wild Nima Sedaghat et al.





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Overal info about TransiNet:

