

Deep Learning in R (and Cross-Language Collaboration)

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Troy Hernandez spent the summer at NASA Ames mentoring the Frontier Development Lab's Solar Storm Prediction Team to create a deep learning system capable of predicting solar flares. Many lessons were learned that are broadly applicable to those working in data science groups using different languages or applying machine learning and natural science problems.

This talk will cover:

- Working with Python developers using the Reticulate and Feather packages
- Deep learning options in R (mxnet and tensorflow)
- Deep learning hardware
- Engineering considerations required for dealing with petabytes of data