Major Changes

There have been no major changes. However, I have finalized a hypothesis for testing. The formal research question is to determine which linguistic properties of languages are the most relevant and lead to the best results for cross-lingual dependency parsing.

Accomplishments

I set up the parser to work with multiple languages. I also modified how the typological features of languages are being passed into the neural net to better fit my research interests.

Meeting Milestone

My milestone was to analyze linguistic properties of languages in order to develop a hypothesis of which languages work well together. I have come up with a few features which I think will be beneficial, and now I plan on running experiments to see which languages help/hurt others.

Surprises

There was nothing particularly shocking, but I did notice that some of the code in the parser used direct paths to nonexistent directories, so I needed to download new files / try to generate the files.

Looking Ahead

I plan on running different experiments with different subsets of languages to see which combinations lead to the best results. I’m also doing more research for typical commonalities between languages.
Revisions

Instead of developing my own model, I think I may continue to use the model provided and instead find ways to linguistically better the performance. The two parts of my research are finding the subset of languages which help other languages, as well as identifying which features need to be passed in to the parser. Each of these sections should take about a month to complete.

Resources

I have moved my code onto an SCS server.