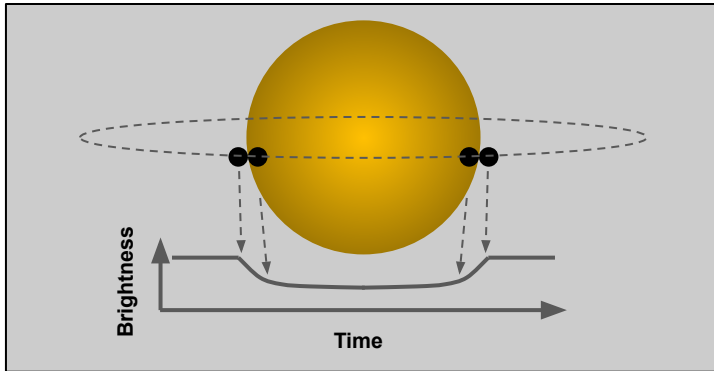


# Extracting information on exoplanets from transit spectroscopy utilizing deep learning

- Coleman Kilby (*Master Student*)

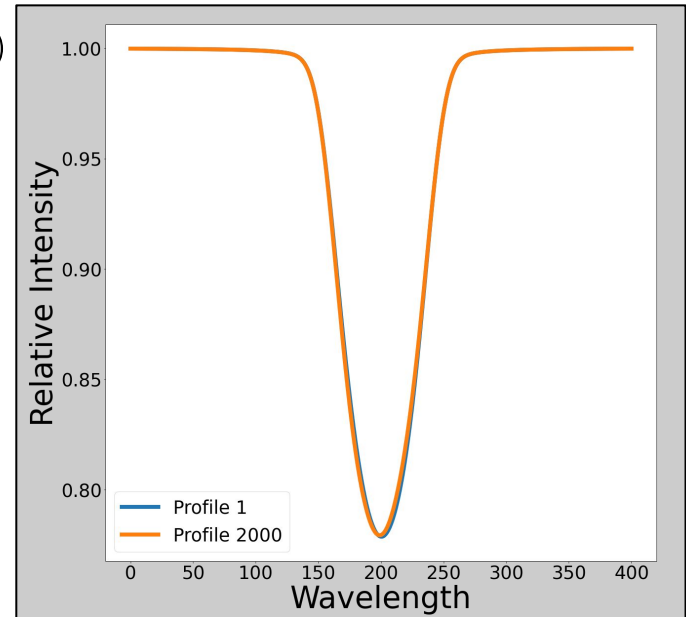
## Exoplanet Transit Event

1.



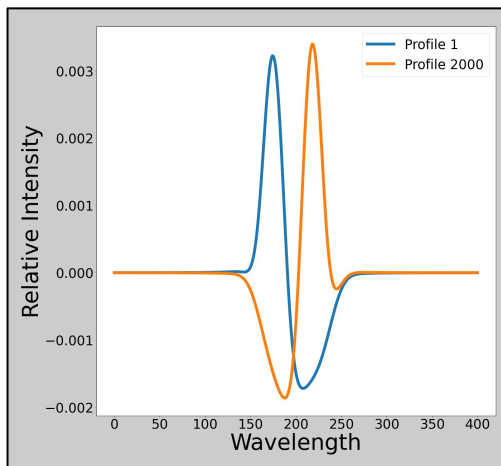
## Raw Simulated Line Profiles During Transit

2.



## Line Profiles During Transit with Mean Profile Subtracted

3.

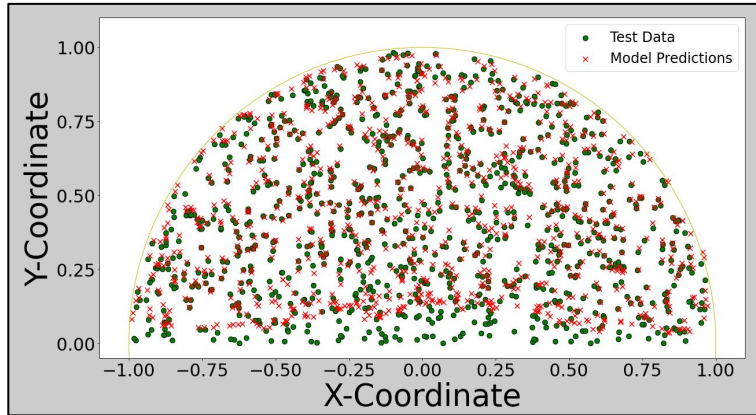


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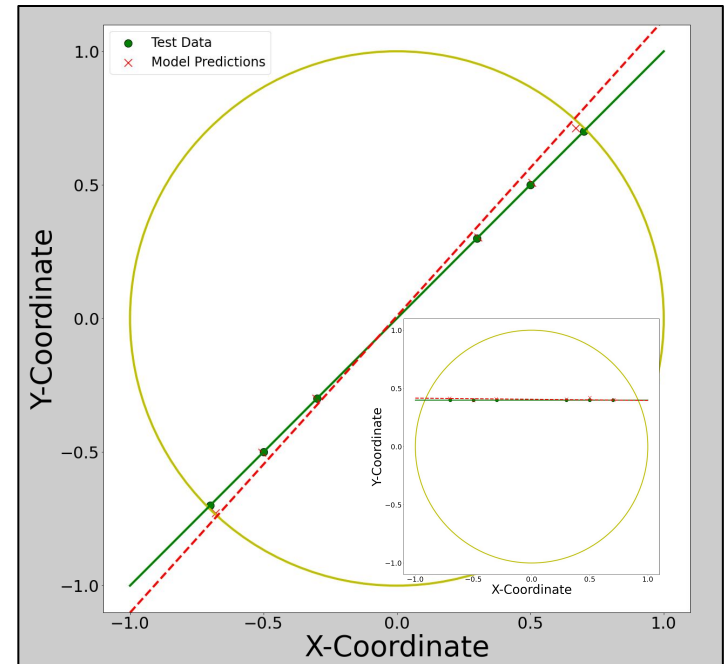
4.

**Trained Model**



6.

**Validated Transits with Trained Model**



**Variability (RM Effect vs. LD)**

5.

