Breakthrough Listen URAP

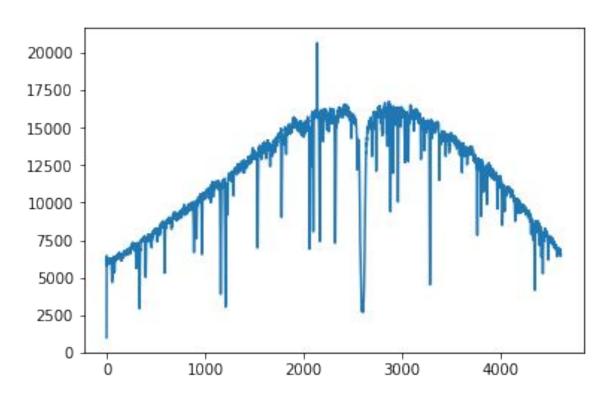
Fall 2019 - Jackie Telson

Aims and Approach

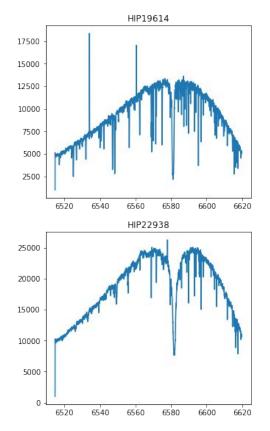
- Problem: need to compute chi squared values for thousands of stars
- Learning about the different steps
- Recreating previous work to fully understand the methods
- Creating a condensed program to compute the best chi squared value for each star in a group of files

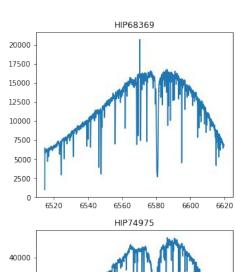
Hydrogen alpha absorption feature

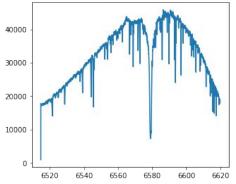
Plot of 53rd order of a fits file from APF

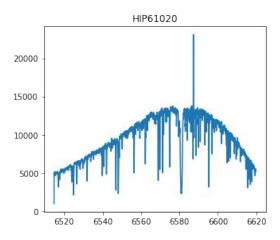


X-axis rescaled to wavelength

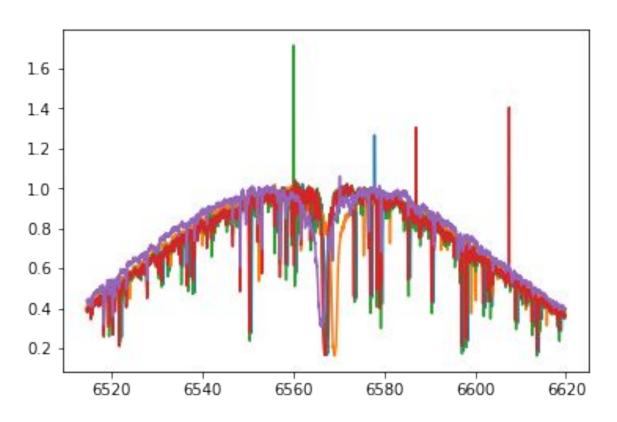






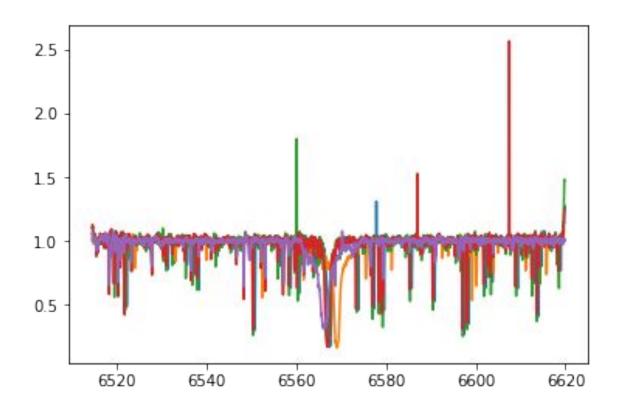


Normalized

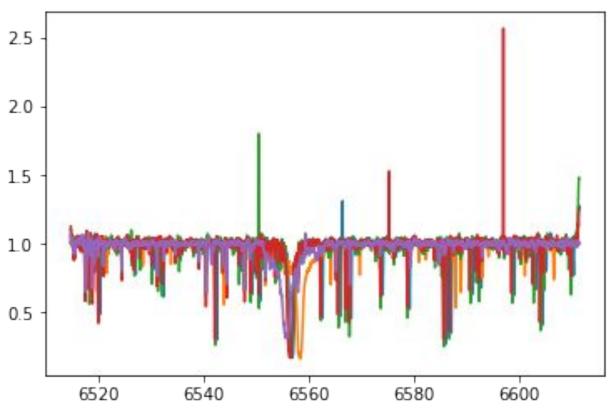


Deblazed

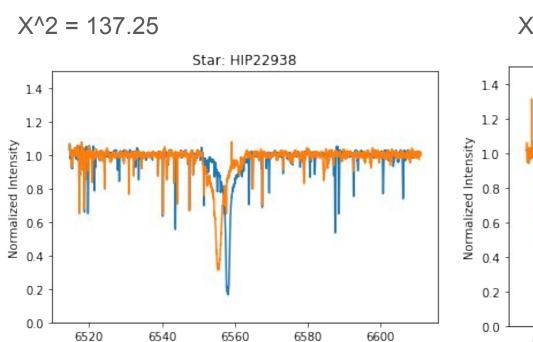
H-alpha spectral line occurs at about 6560 Angstroms



Redshift



Chi Squared



Wavelength (Angstroms)

