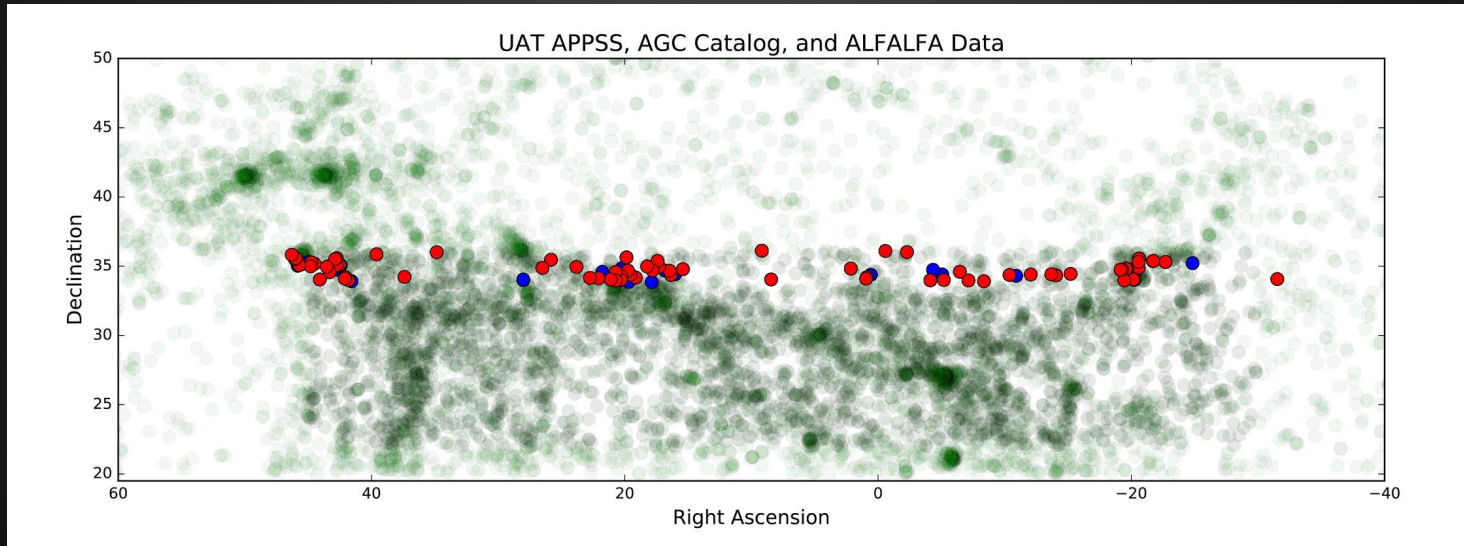


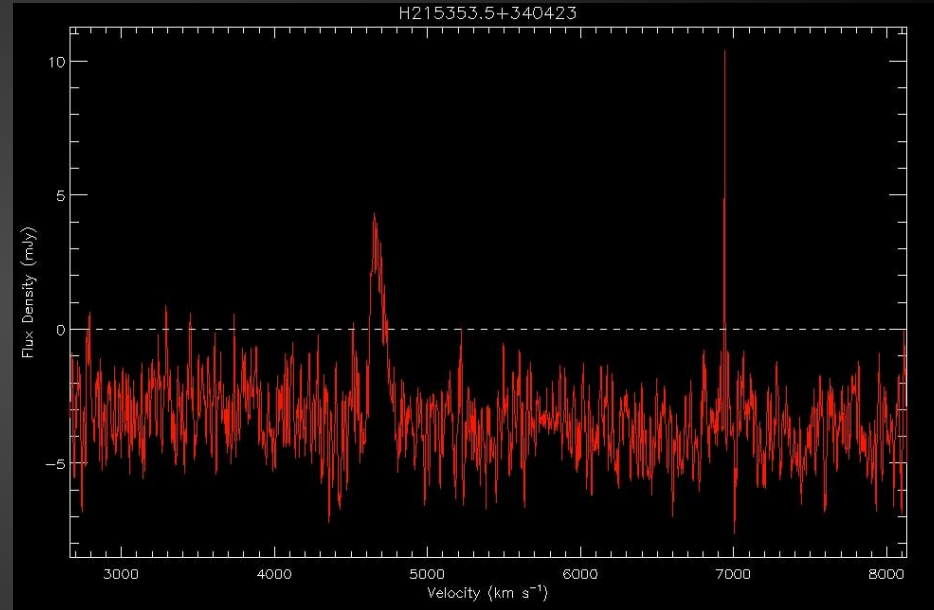
APPSS: A Student Perspective



Chelsey McMichael (Utica College)

Data Reductions

- Data is recorded in a google spreadsheet, downloaded as a CSV file (Comma-separated values)
- CSV format allows for analysis of recorded data



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```
Select a region around the right edge of emission.
  Left-click to select region boundaries.
  Right-click to start over.
Is this fit OK?
  Left-click to try again
  Right-click to approve

W50 =      124.69515 +/-      9.7419386 km/s
W20 =      150.99103 +/-      9.7419386 km/s
vsys =       4683.9568 +/-      6.8885910 km/s
flux =       0.65828746 +/-    0.072425619 Jy km/s
SN =         8.2683446

Please enter any comments:
:

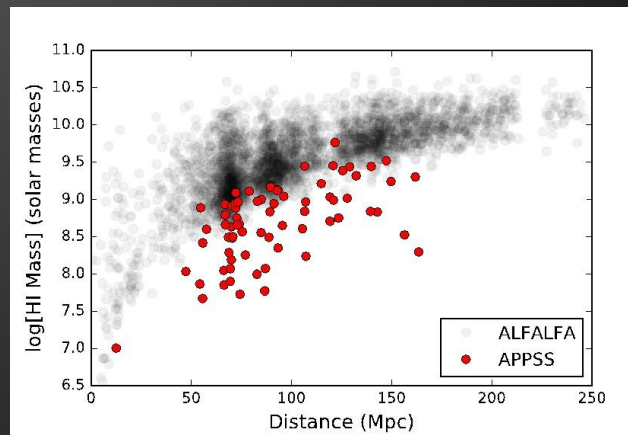
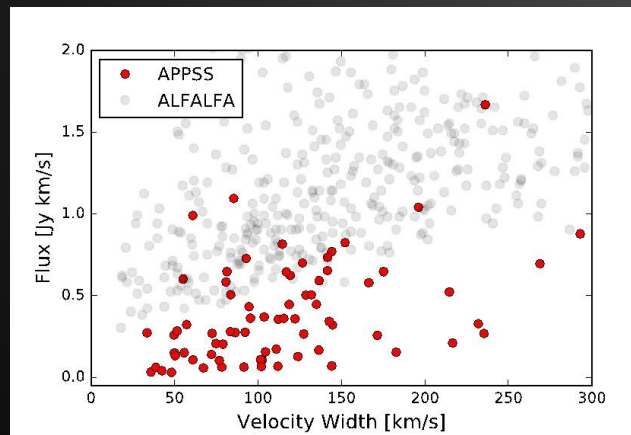
Spectral line fit complete!
IDL> □
```

Install Jupyter Notebook

- Download [Anaconda](#) (Choose the correct OS!)
- Open Anaconda Prompt, type “jupyter notebook” to run the notebook
- May change directory using “cd” for quicker access to certain file

Data Analysis Using Python

- UAT Declination vs. Right Ascension plot
 - Compare to provided ALFALFA and AGC catalogs
- Flux vs. systemic velocity scatterplot
- HI mass vs. distance



Find this on GitHub!

- <https://github.com/jsribaud/APPSS>