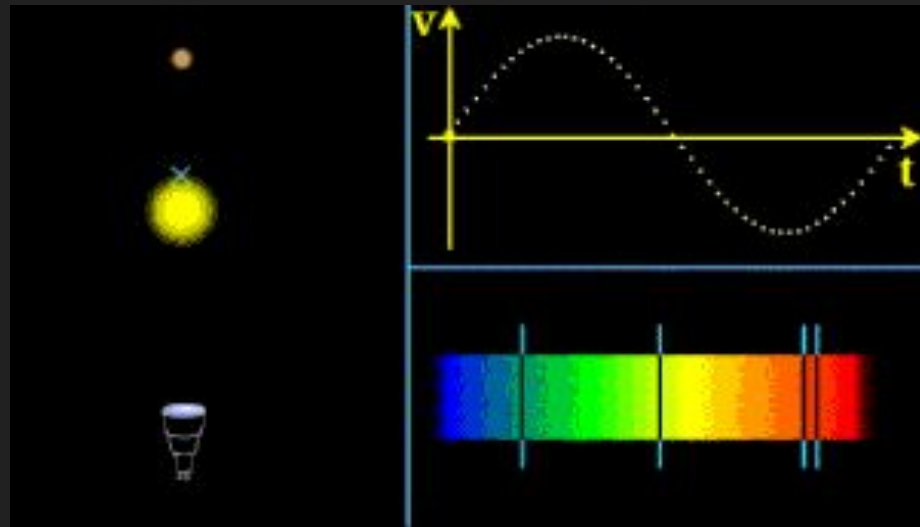


Radial Velocity Fitting

Intro2Astro 2021 Corey Beard

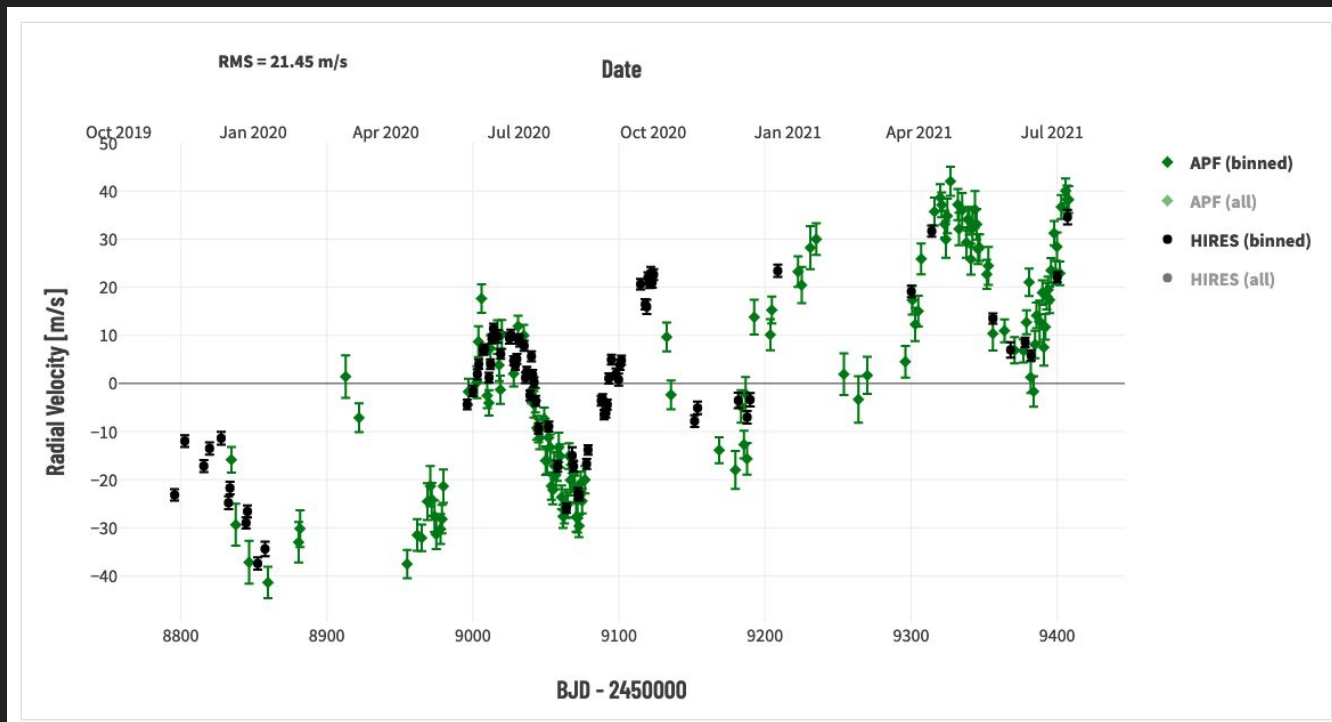
Introduction

- By now you should be aware that Radial Velocities (RVs) are one of the handful of ways we study exoplanets
- RVs are the most common method to measure the masses of exoplanets, and are often used in conjunction with transit photometry



What does RV data look like?

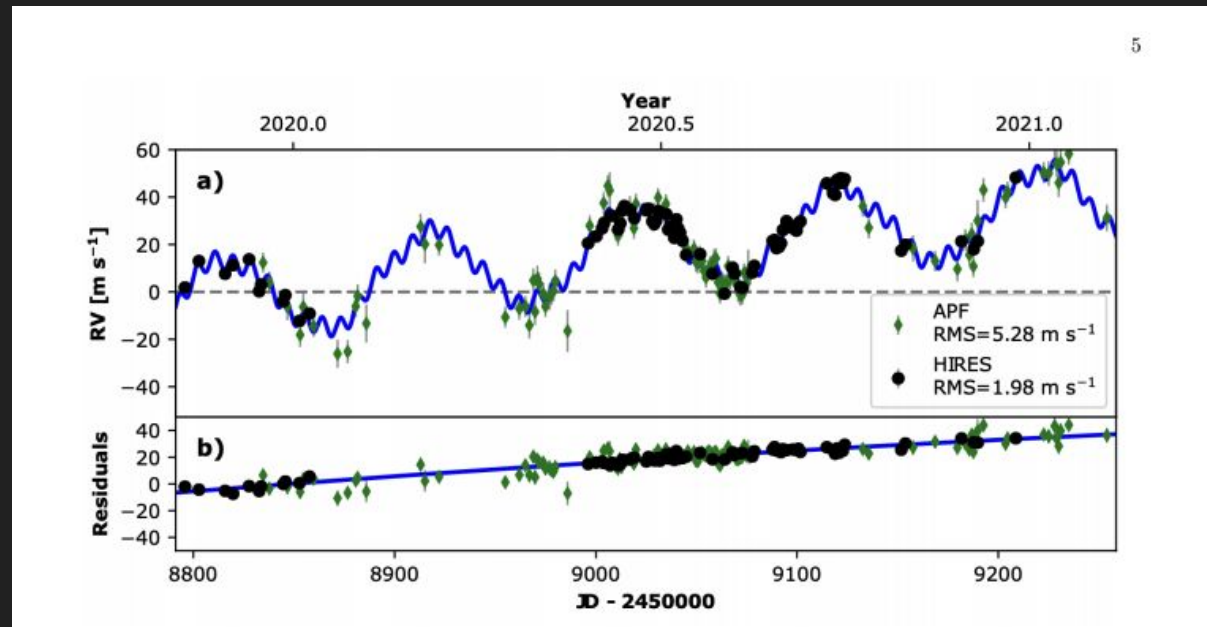
- Basically a bunch of points!



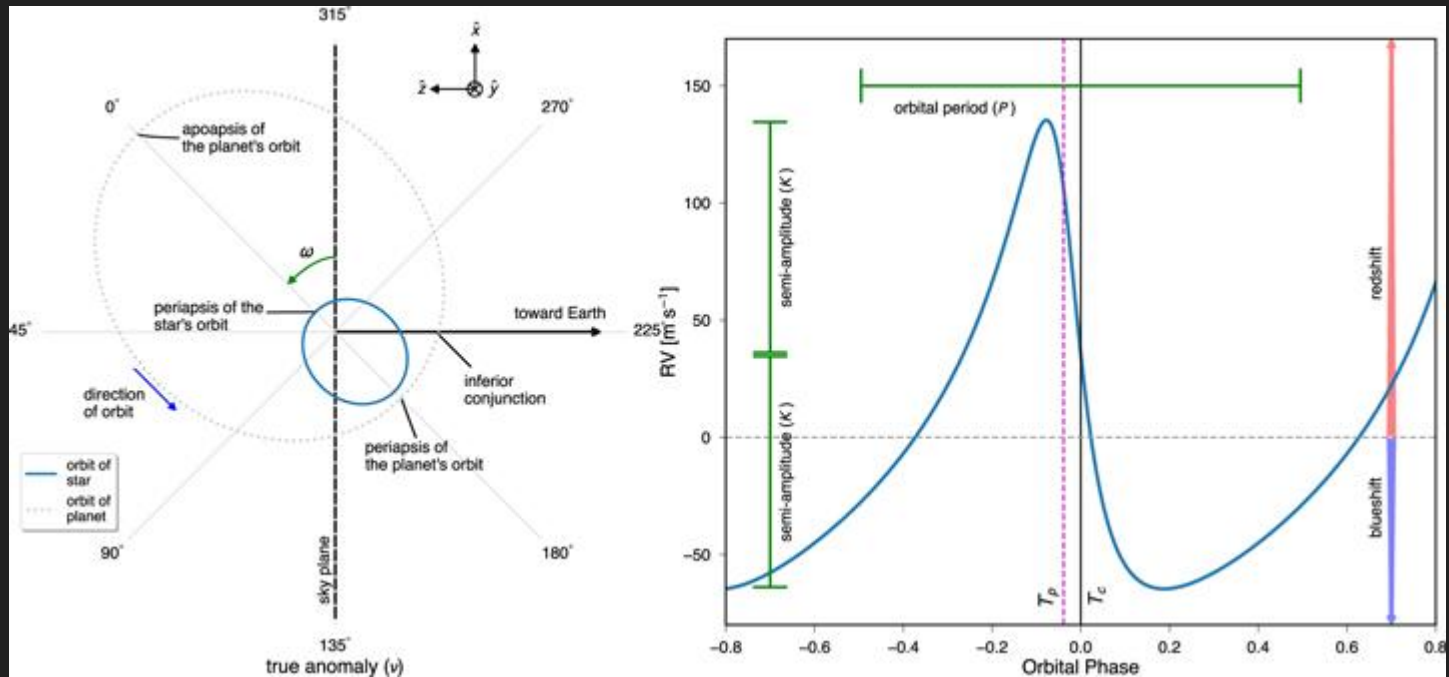
What does RV data look like?

- Using Kepler's laws, and Newton's law of gravity, we're able to predict what kind of an effect planet orbits have on stars

Radial Velocity
Data of one of my
favorite stars! -->



A Keplerian Orbit



Fulton et al., 2018, figure 1