

University of California, Santa Cruz: PhD Completion Timeline.

Determining the Composition of super-Earth and sub-Neptune Exoplanets.

Graduate school timeline: September 2016 - June 2021.

Year One: Sep. 1, 2017 – Aug. 2018

- Observe *K2* radial velocity (RV) targets with Keck and APF.
- Finish RV mass measurements of the K2-3 system in preparation for *HST* and *JWST* transmission spectroscopy observations.
- Write and publish first paper on K2-3 (Paper I).
- In the fall: present Paper I work as a department seminar.
- Begin work on HD106315 to determine the planet composition and system architecture.
- TESS will launch in early 2018.
- In the spring: present Paper I work at the regional Bay Area Exoplanet meeting.
- Pass a preliminary examination based on course material, relevant physics, and general astronomical knowledge.

Year Two: Sep. 2018 – Aug. 2019

- *K2* mission ends.
- Publish my paper on the HD106315 planet masses and orbital alignment (Paper II).
- Travel to the American Astronomical Society Meeting to share results of Paper II.
- Identify best TESS followup targets and begin observing them with APF and Keck.
- Analyze these targets using RadVel to determine their masses.
- *JWST* launch in late 2018.
- By June 2019, pass department qualifying exam to qualify as a Ph.D. candidate.

Year Three: Sep. 2019 – Aug. 31, 2020

- Use the TESS target sample to determine suitable targets for atmospheric characterization with *JWST*. Publish a paper describing these planets (Paper III)
- Present Paper III at an international conference (e.g., Exoplanets II).
- Begin preparations for my large synthesis paper on the composition transition between sub-Neptune and super-Earth planets that will form the capstone of my dissertation (Paper IV).