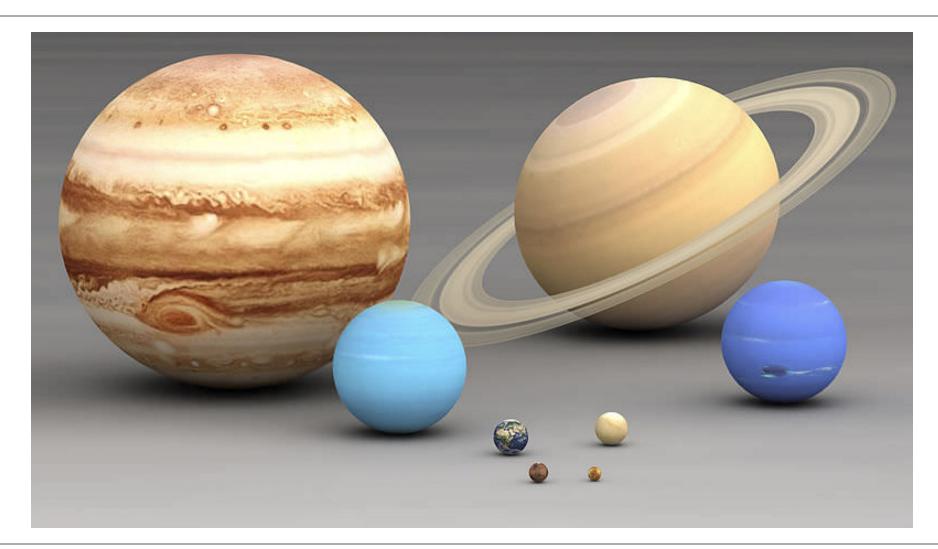
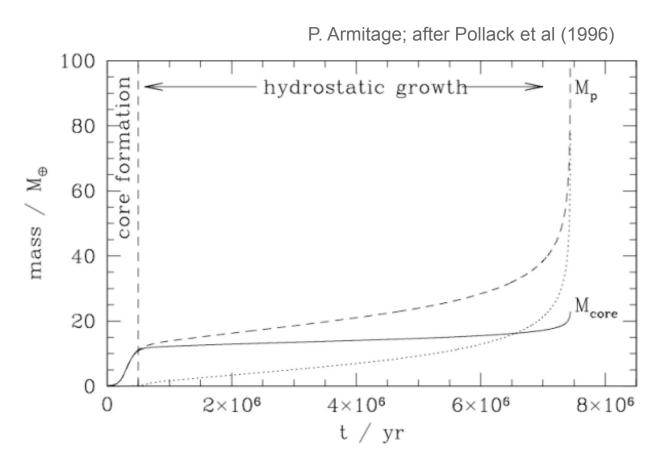


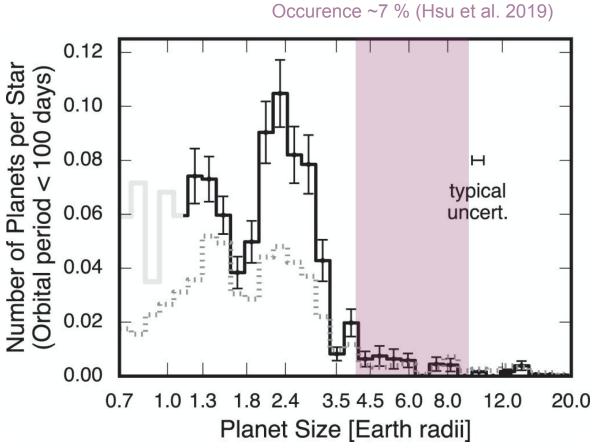
Transition between ice- and gas-giant planets

Explored with TESS and follow-up radial measurements

Nielsen, Bouchy et al. in prep.



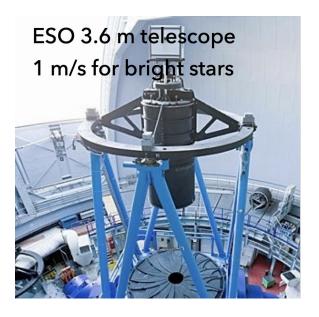




RUN AWAY CORE ACCRETION MAKES THE DIFFERENCE BETWEEN SATURN AND NEPTUNE

OK - LET'S FIND SOME SATURN-TO-NEPTUNE **SIZED EXOPLANETS THEN!**

Petigura et al. 2016 + 2017, Bhattacharya 2018, + me ~2018



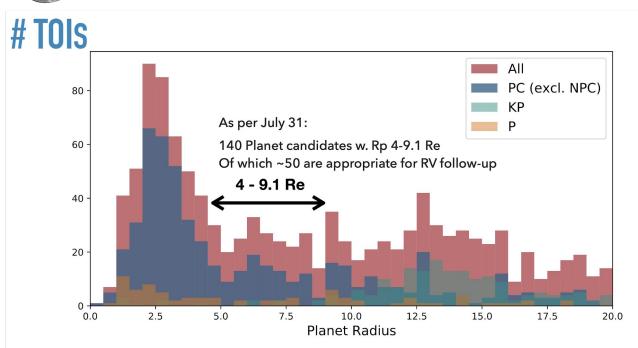


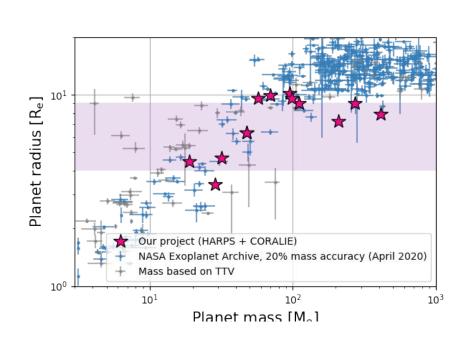
Combined CORALIE-HARPS survey:

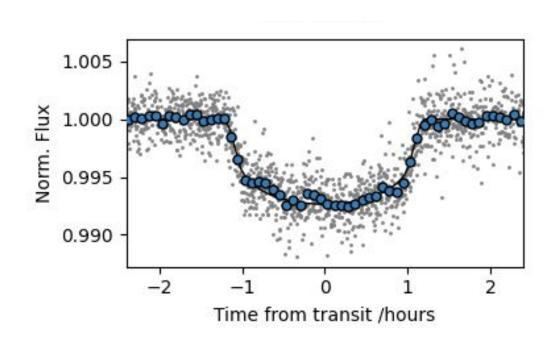
Rp = 4-9 Re, V < 12, Dec < 10 deg, Teff < 650015 night on HARPS (10 observed) & 10 nights on CORALIE Vetting of all(-ish*) TOIs in the parameter range (*depending on period)

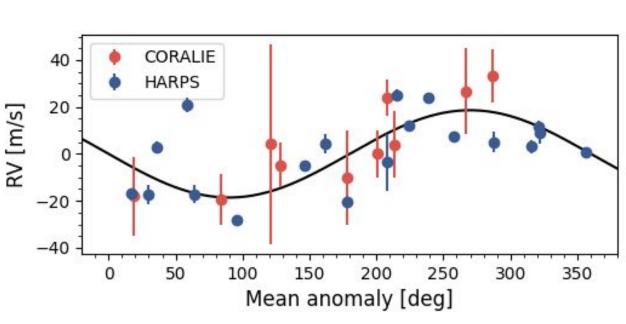


TESS OBJECTS OF INTEREST, YEAR 1









Stay tuned for

- 9-ish planets to be published (Nielsen+in prep, in collaboration several teams within TESS exoFOP)
- Currently finishing a our follow-up 'survey' all sub-Saturns from TESS yr 1 (first observations in ~7 months yesterday 🔯)
- Population study, investigating connections to stellar properties (metallicity, mass, etc) and environment (incident flux, multiplicity...) \rightarrow Comparison of updated internal structure models and comparison with Lopez & Fortney 2014