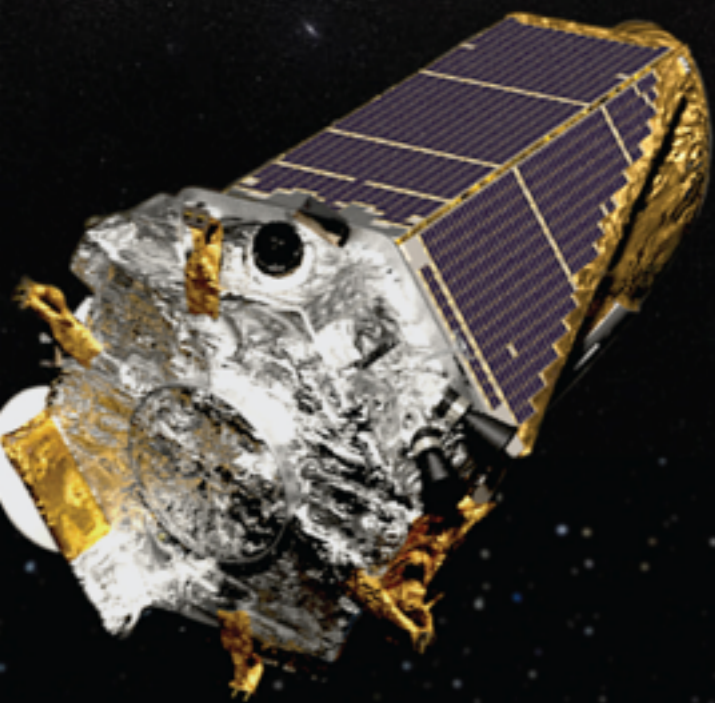
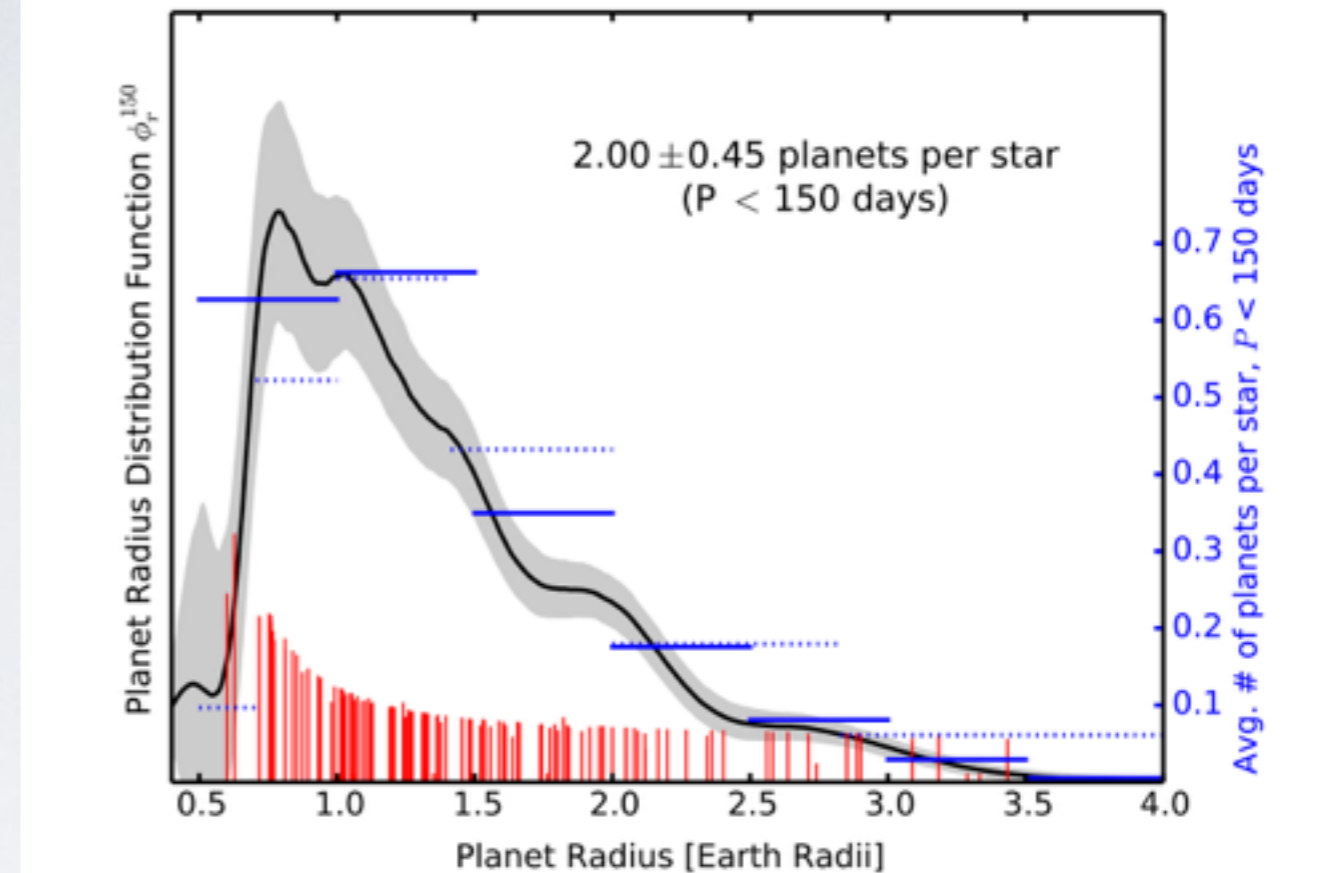


EXPLORING THE DIVERSITY OF PLANETARY SYSTEMS WITH *K2*

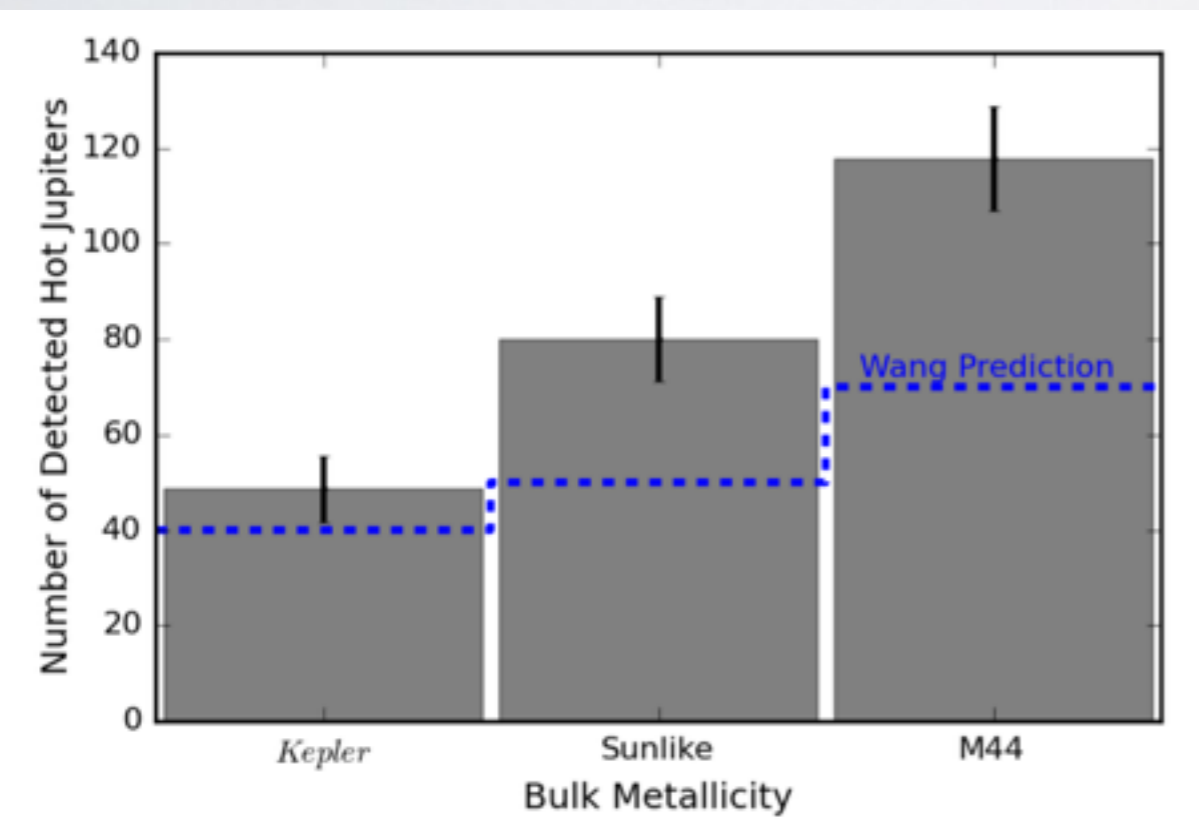


Benjamin Montet
2016 Carl Sagan Fellow
University of Chicago

THANKS TO *KEPLER*,
WE KNOW PLANETS
ARE COMMON
IN THE GALAXY...



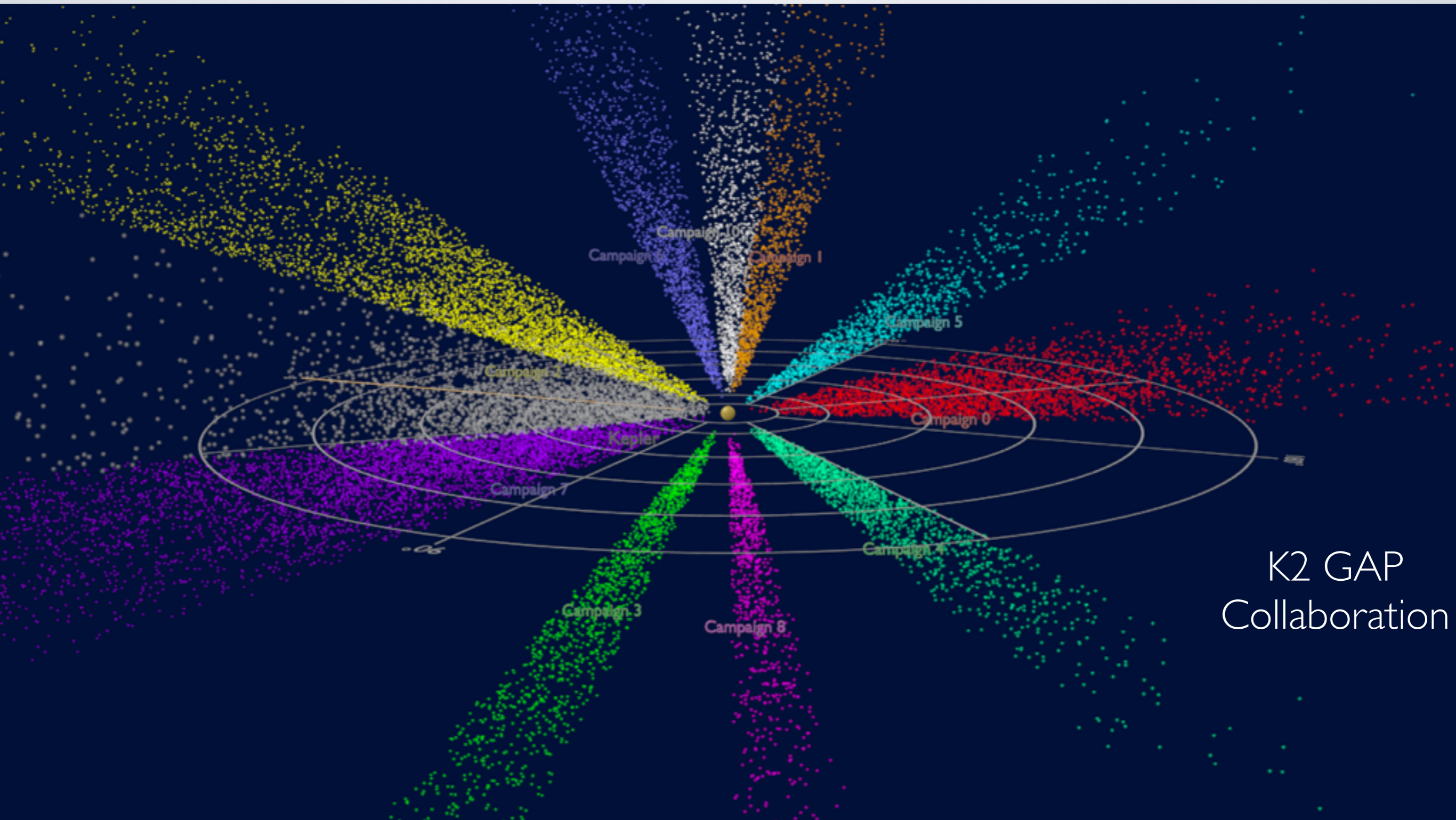
Morton and Swift (2014)



Prediction from Wang et al. (2014)

...BUT THERE ARE
DISCREPANCIES BETWEEN
KEPLER AND RADIAL VELOCITY
SURVEYS OF THE LOCAL
NEIGHBORHOOD

K2 ENABLES US TO DETECT PLANETS ACROSS THE GALAXY

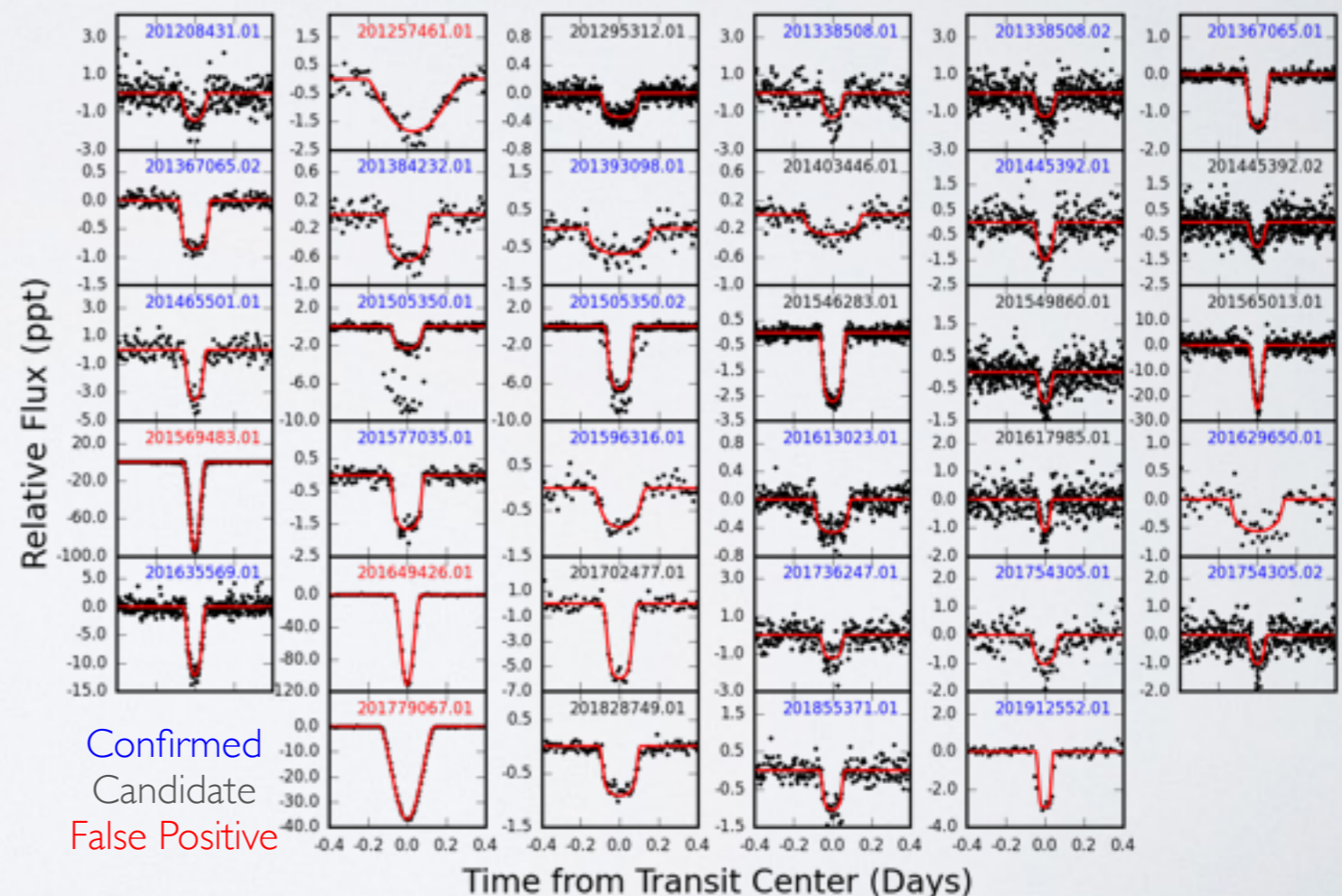


K2 GAP
Collaboration

MEASURING PLANETARY OCCURRENCE WITH K2

During my Sagan Fellowship, I will

- Measure planet occurrence in different *K2* fields in different galactic environments
- Improve our understanding of how hot Jupiter systems are affected by stellar age and metallicity
- Understand the formation and evolution of systems with tightly-packed inner planets



Montet et al. (2015b)