














































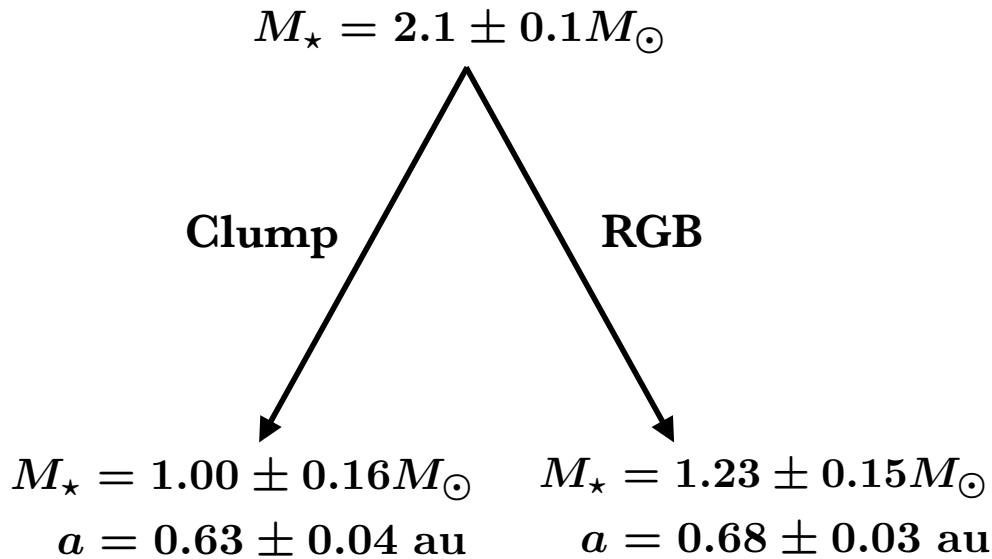




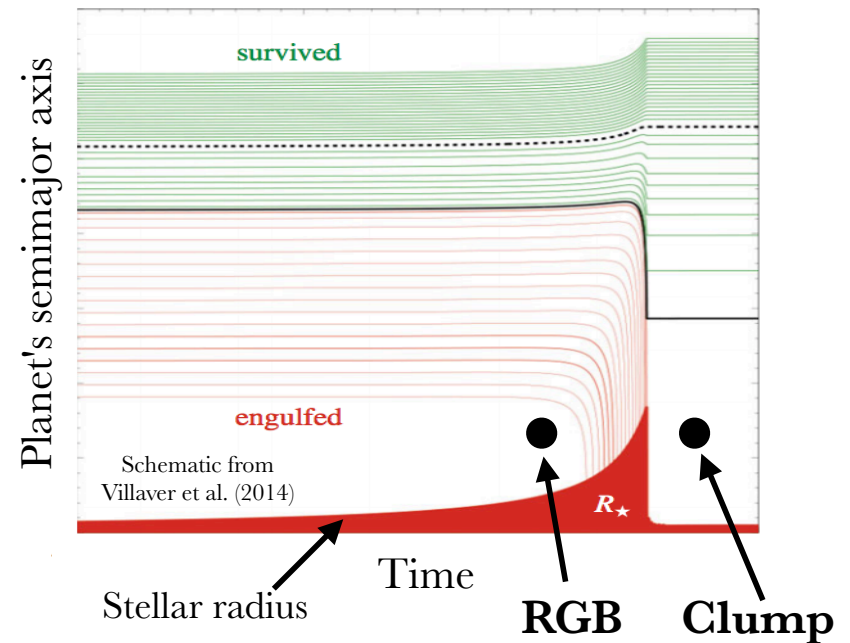
TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949

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 Mário J. P. F. G. Monteiro^{1,2} , Benard Nsamba¹ , Sibel Örtel²⁹ , Filipe Pereira¹ , Sérgio G. Sousa^{1,2} ,
 Maria Tsantaki¹ , and Margaret C. Turnbull³⁴

(Big) asteroseismic correction



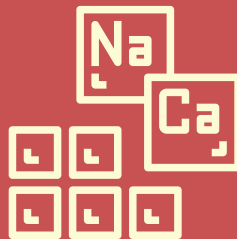
I computed fate of planet





USING THE GALACTIC
ARCHEOLOGY SURVEY, GALAH,
WE'VE CHARACTERISED
47,000+ STARS BEING
OBSERVED BY TESS,
INCLUDING 2,260 STARS
CONTAINED WITHIN THE CTL

INCLUDES STELLAR
MAGNITUDES, T_{EFF} ,
 $\log(g)$, $[M/H]$, RADIUS,
MASS, AGE, LUMINOSITY,
HZs AND $V\sin(i)$ VALUES



STELLAR ABUNDANCES
FOR UP TO 23 ELEMENTS

ABUNDANCE RATIOS Fe/Mg,
Mg/Si, Fe/Mg & C/O



PLANETS WITH SIMILAR
GEOLOGICAL COMPOSITION
TO EARTH AND MARS WILL
BE COMMON AROUND
GALAH-TESS STARS

GALAH-TESS CATALOG

JAKE CLARK
UNIVERSITY OF SOUTHERN QUEENSLAND
arXiv:2008.05372

line-of-sight companion(s)



radius



age

[C,O,Ca,Mg,Fe...]



mass

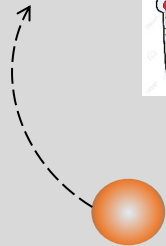
spots and activity



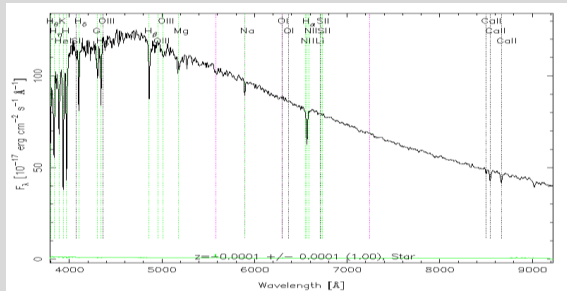
T_{eff}

Ca II H&K

additional planet(s)



bound stellar companion(s)



UV through IR

Time-series

- Light curve
- RV curve
- Activity indicators

SAG 22

A Target Star Archive for NASA Exoplanet Missions

<https://bit.ly/32eu0ya>

Reviewing, consolidating, and identifying an archive for key stellar data to support exoplanet missions: HabEx, LUVOIR, OST, RST CGI, JWST, Ariel/CASE, NASA ELT, plus Explorers & Small Missions

SAG 22 motto:

Don't spend a billion dollars observing a planet without learning everything about the system first.



Natalie Hinkel
SwRI



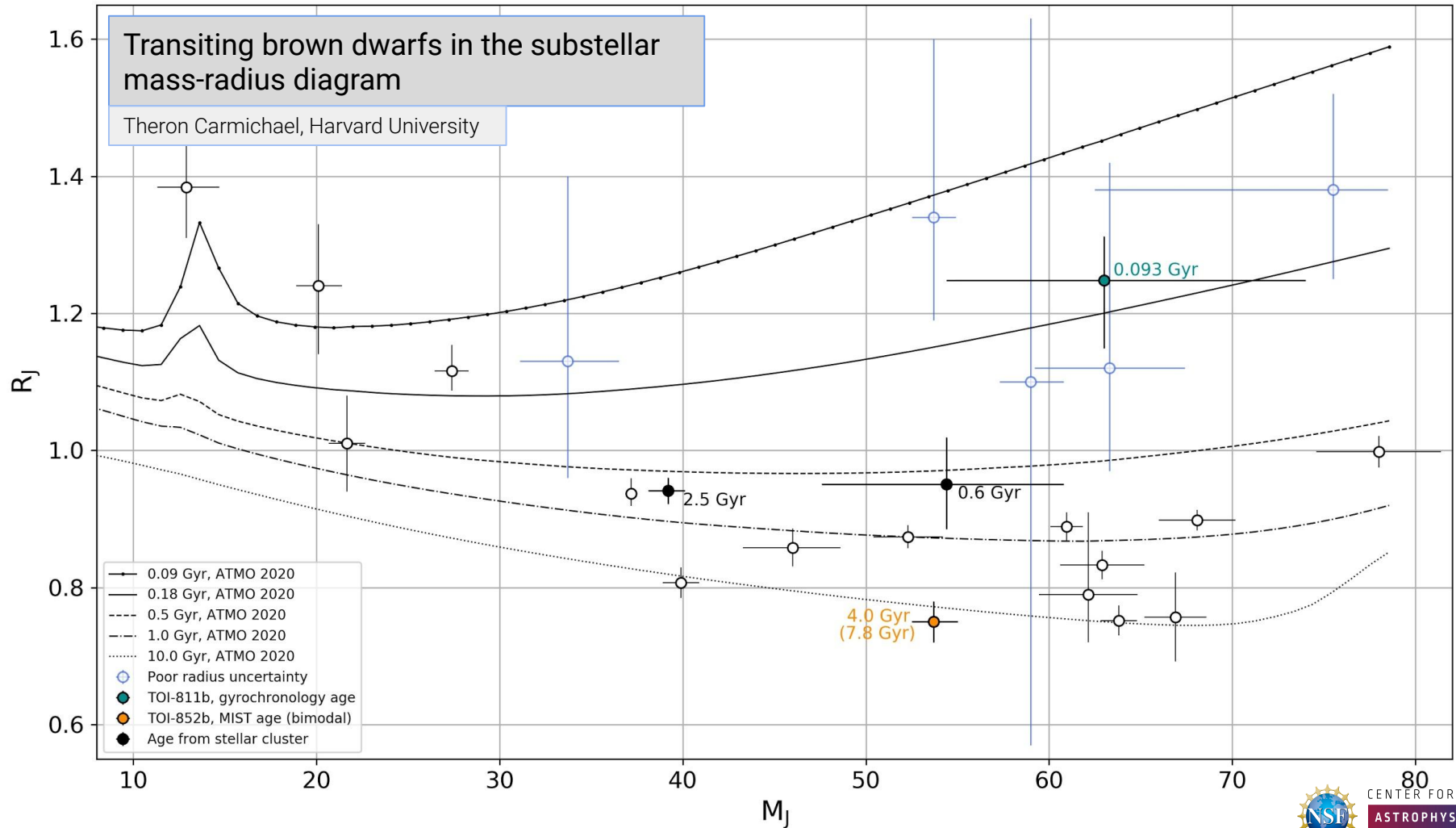
Joshua Pepper
Lehigh U.



Chris Stark
STScI

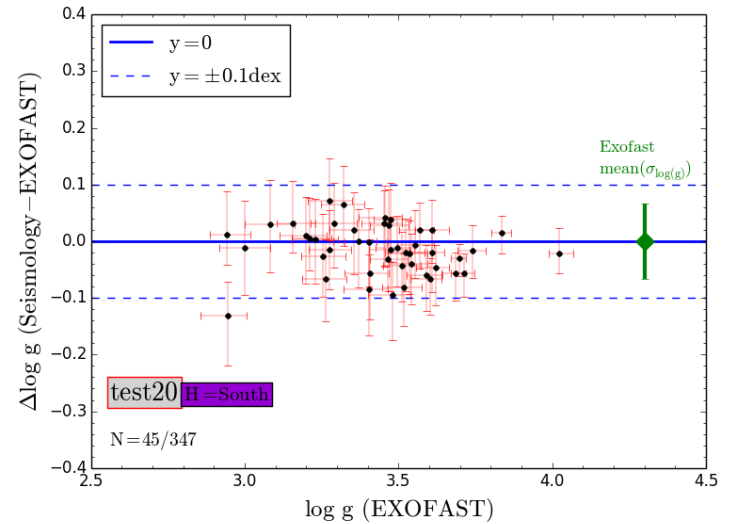
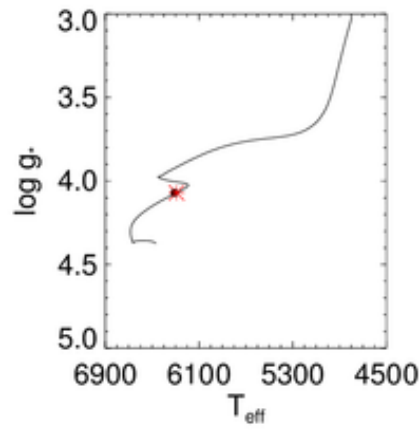
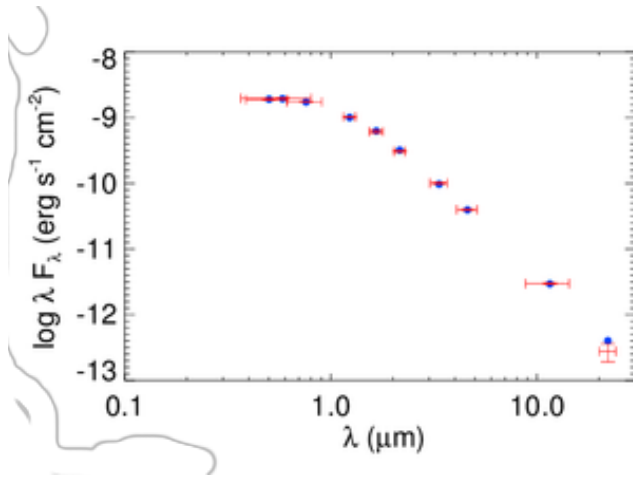
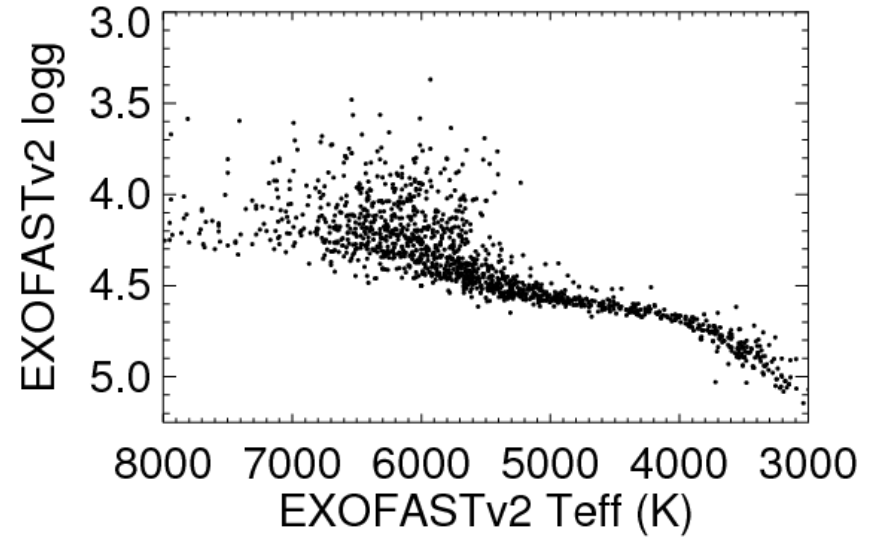
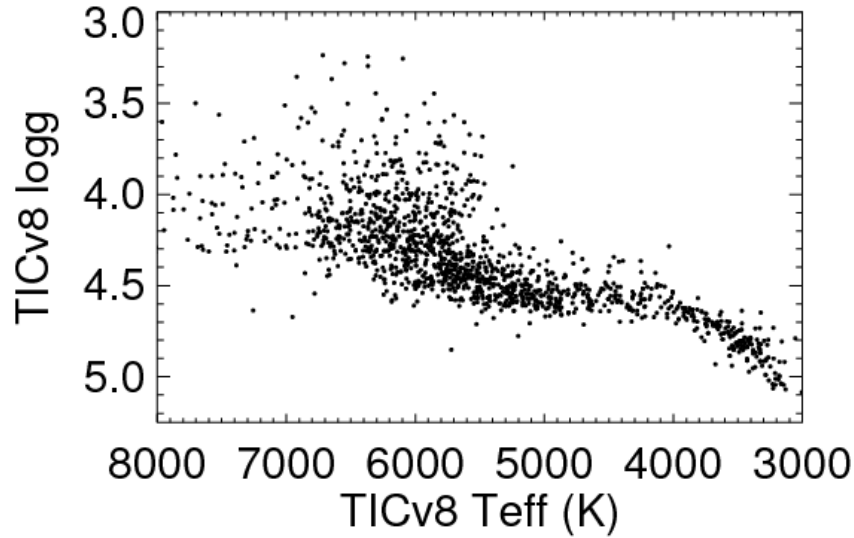
Transiting brown dwarfs in the substellar mass-radius diagram

Theron Carmichael, Harvard University



Precise stellar parameters for all TOI host stars using EXOFASTv2

Jason D. Eastman, CfA



Credit: Jamie Tayar and Diego Godoy-Rivera