

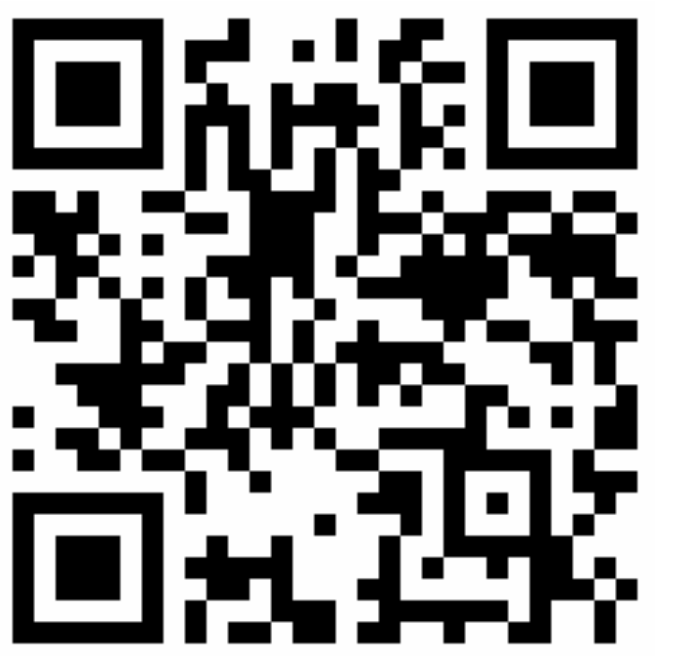
Precise Properties of *Kepler* Stars and Planets in the *Gaia* Era



Scan to visit my website:

[@TravisABerger](#)

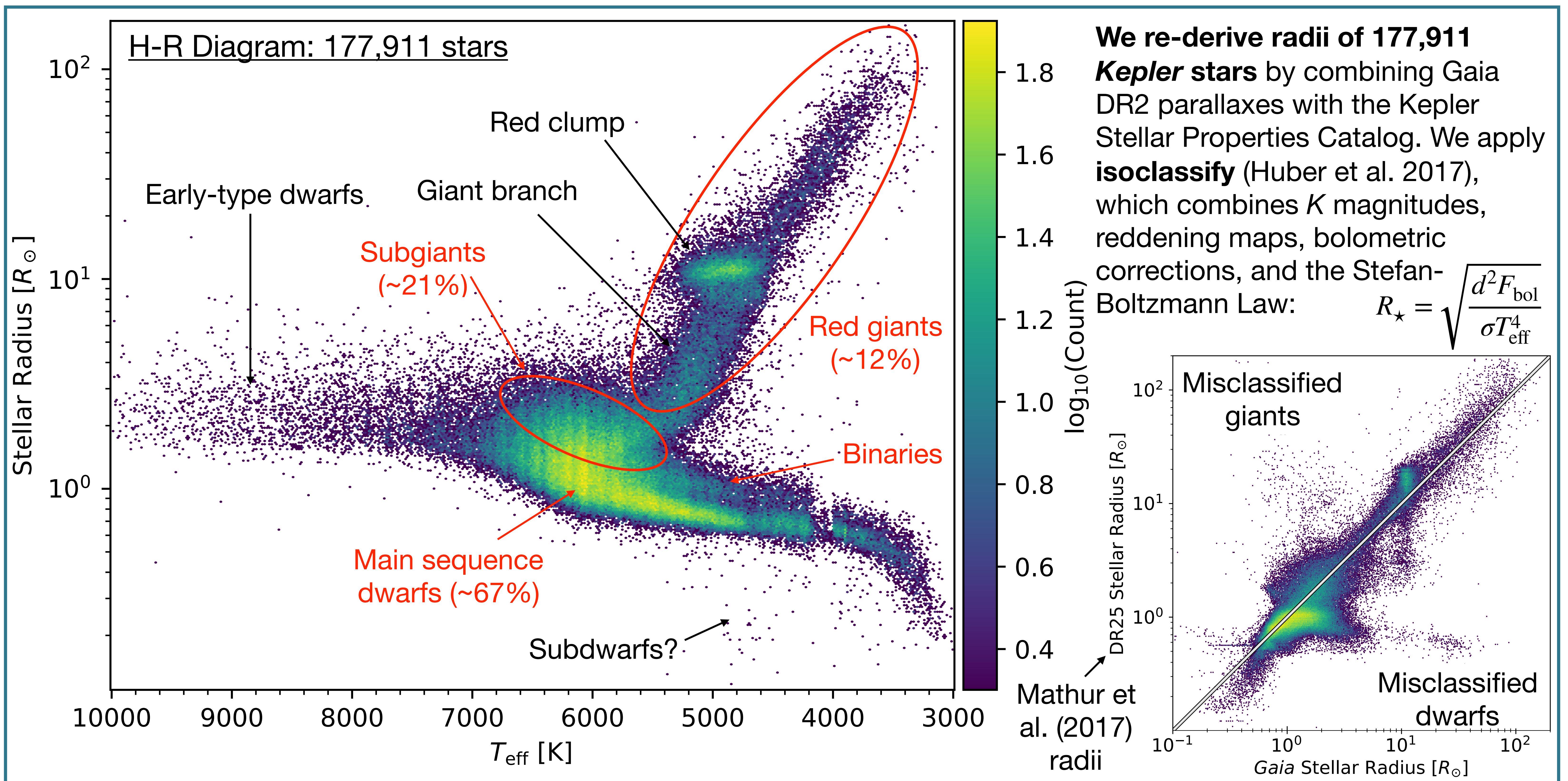
[@taberger](#)



Travis A. Berger¹, Daniel Huber¹, Eric Gaidos², and Jennifer L. van Saders¹

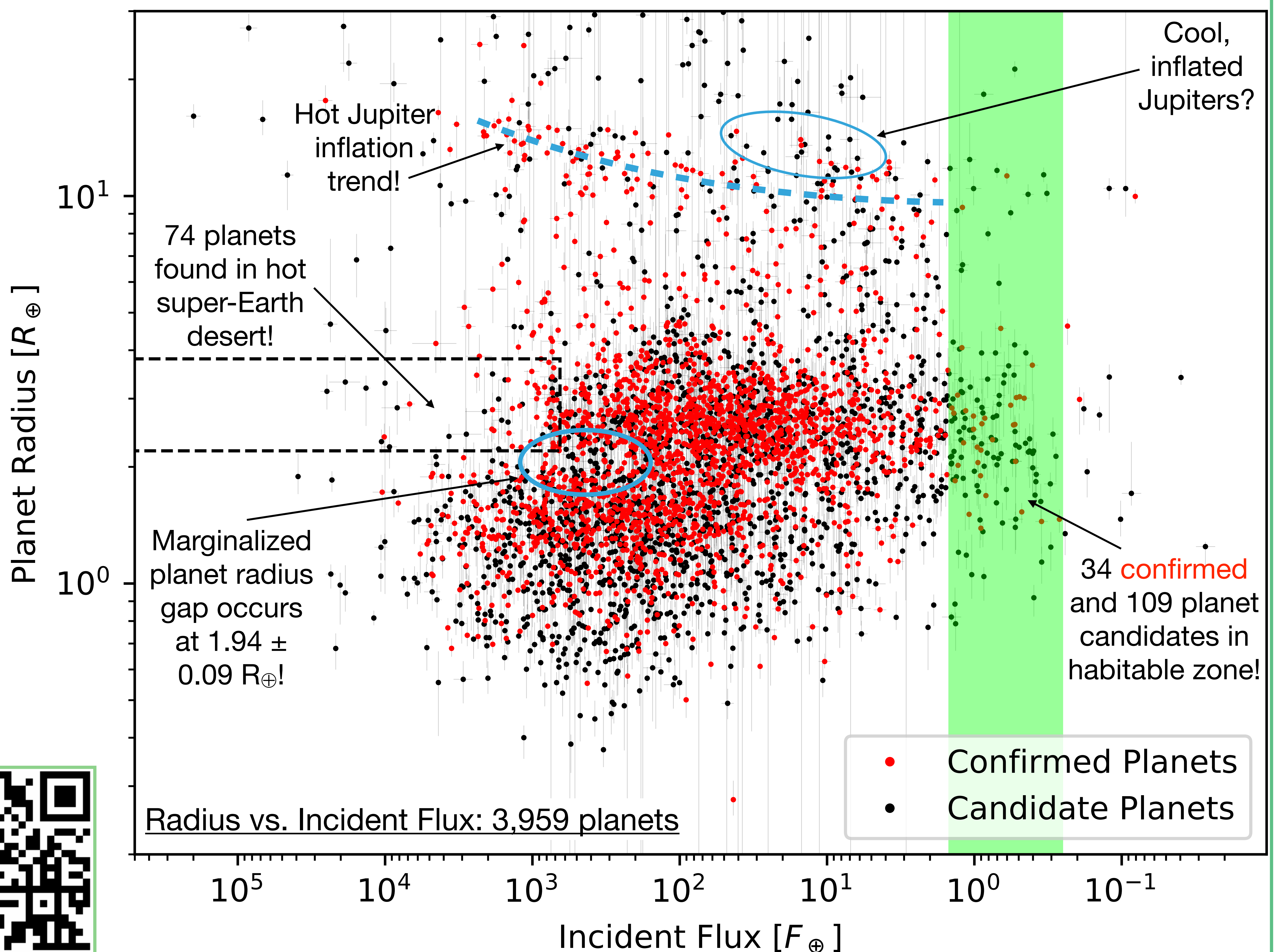
1. Institute for Astronomy, University of Hawaii, 2680 Woodlawn Drive, Honolulu, Hawaii 96822, USA

2. Department of Geology & Geophysics, University of Hawaii at Manoa, Honolulu, HI 96822, USA



Know thy star, know thy planet:

- Planet radii (and incident fluxes) also benefit directly from improved stellar radii.
- Before *Gaia* DR2, most *Kepler* radii had precisions of ~30-40%. We now report a median stellar radius precision of ~8% and **planet radius precision of ~10%**.
- Uncertainties due to transit fitting **now dominate** the planet radius error budget!



Berger et al. (2018)
ArXiv:
1805.00231

