# Why do M dwarfs have more transiting exoplanets than sun-like stars?

Mulders, Drążkowska, Van der Marel, Ciesla & Pascucci 2021; ApJL 920:1

### Context





## Hypothesis

Giant planets **block the flow of pebbles** to the inner disk, suppressing super-earth formation around sun-like stars

velocity giant planets are **lower** around M dwarfs than around sun-like stars

Johnson et al. 2010

transiting planets are higher around M dwarfs than around sun-like stars

Mulders et al. 2015

### Method







