



Rapid and coarse characterisation

An ML cool stars catalogue for Kepler and K2



**ML - a
concept**

Temperature

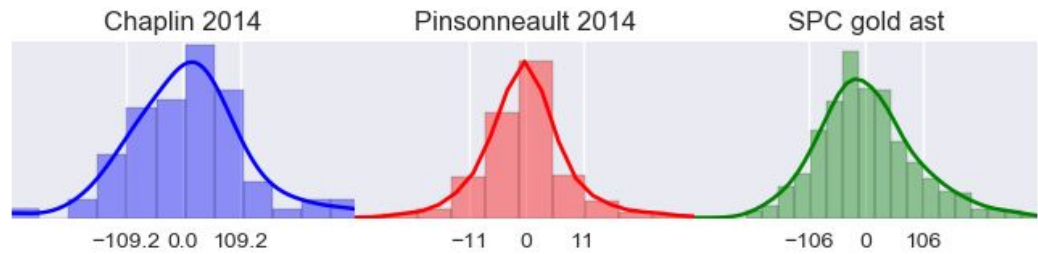
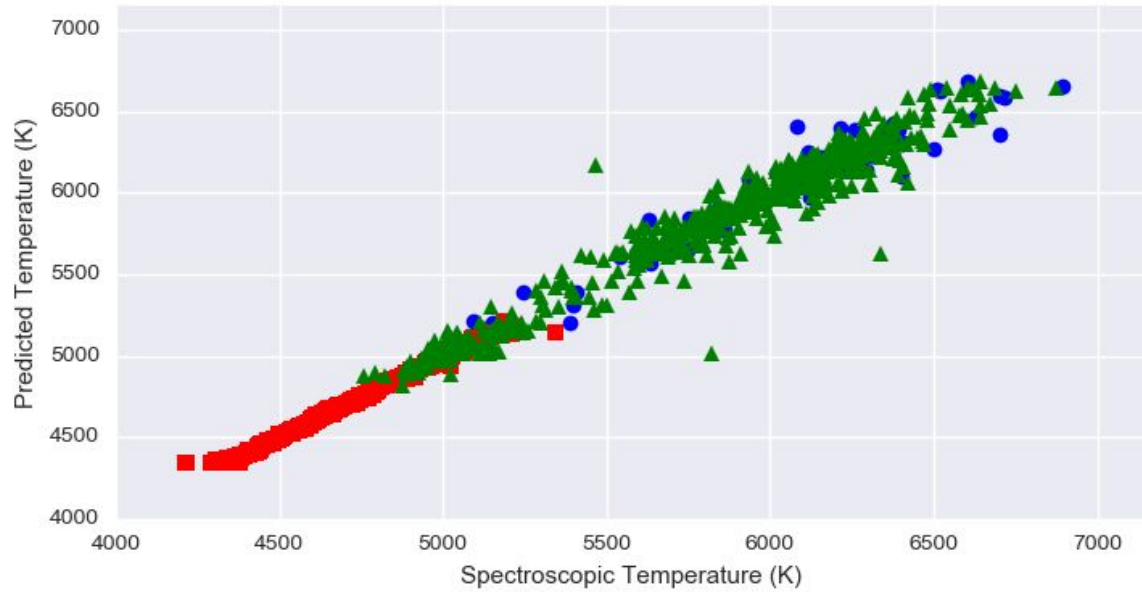
Granulation

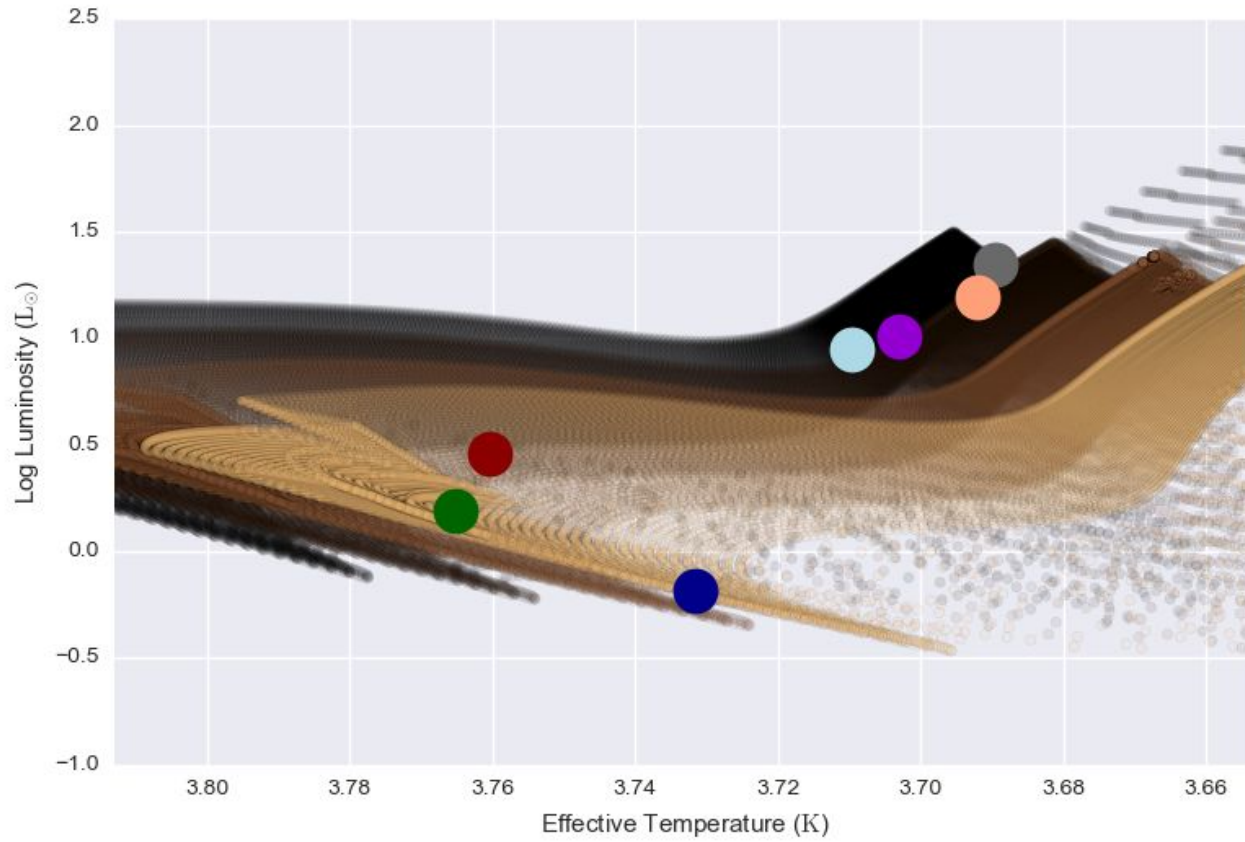
**Detecting
oscillations**

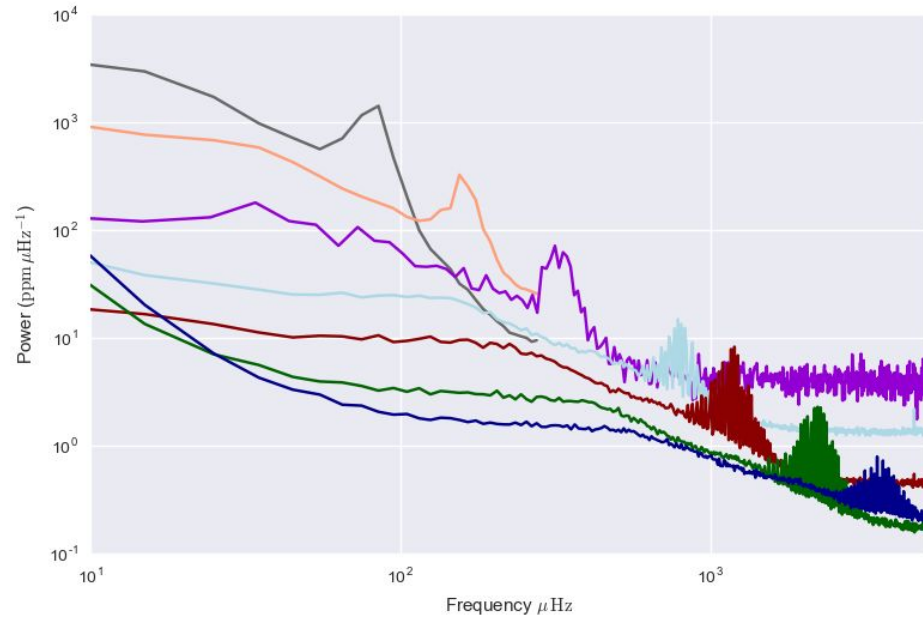
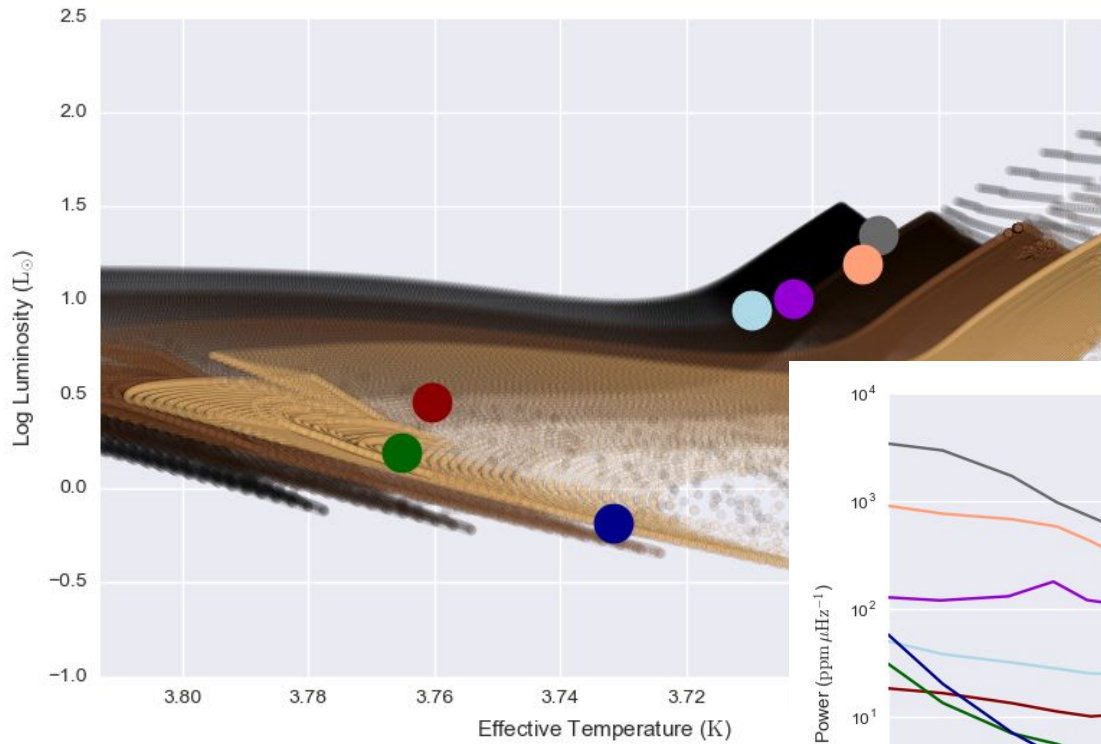
'Flicker'

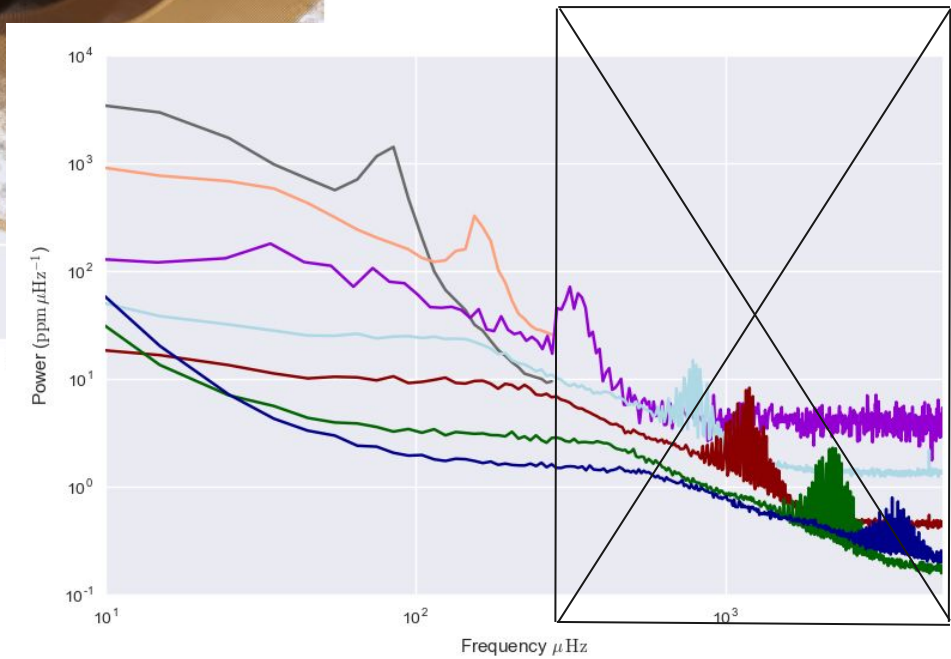
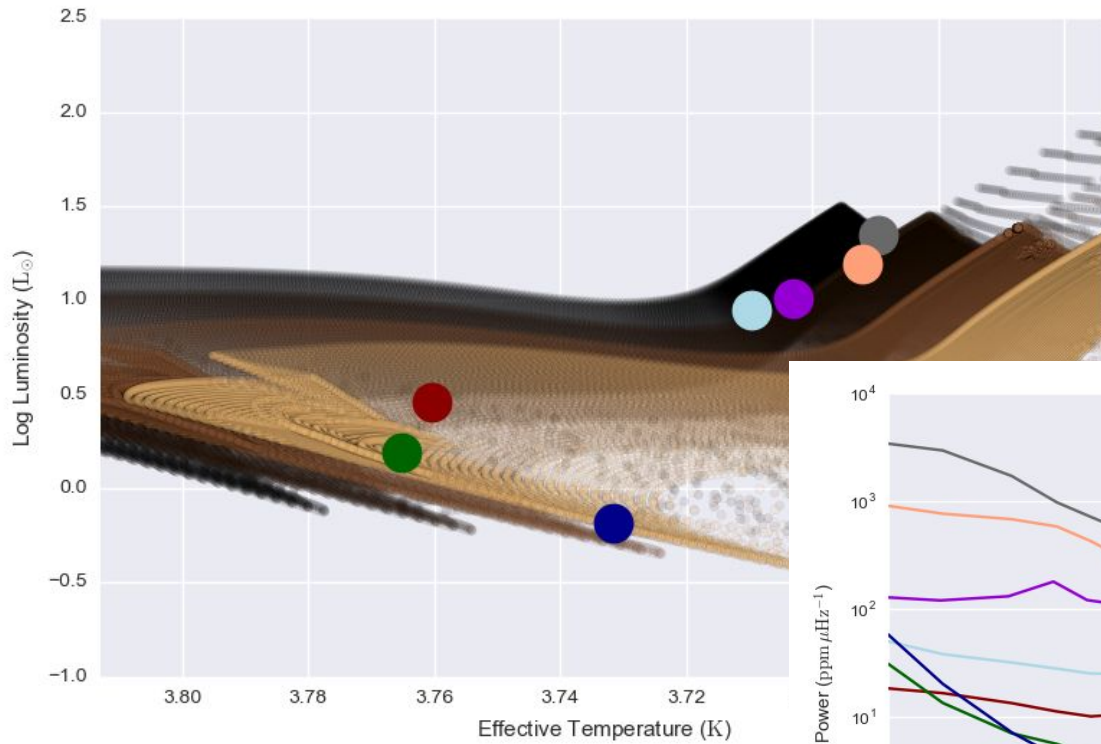
**'Flicker'
uncertainties**

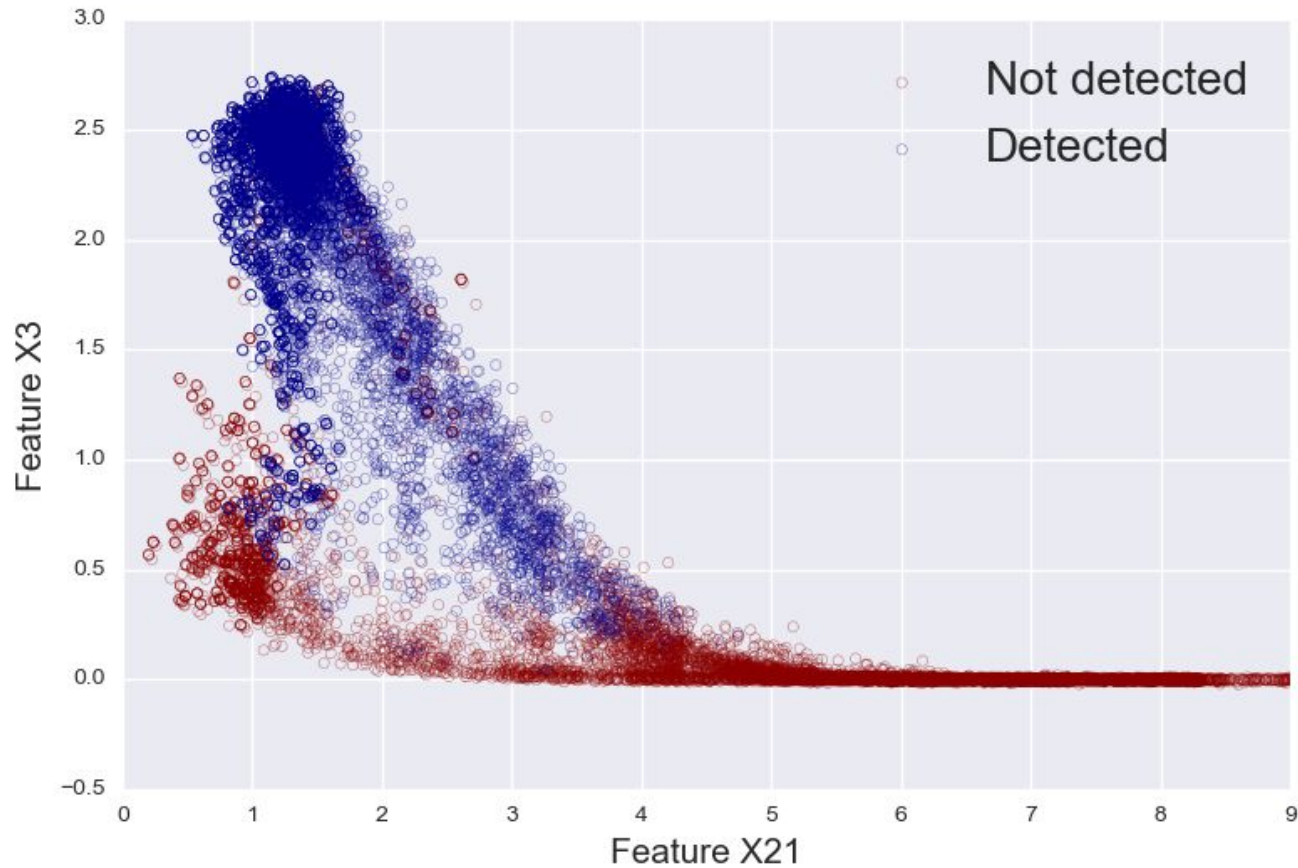
[M/H]



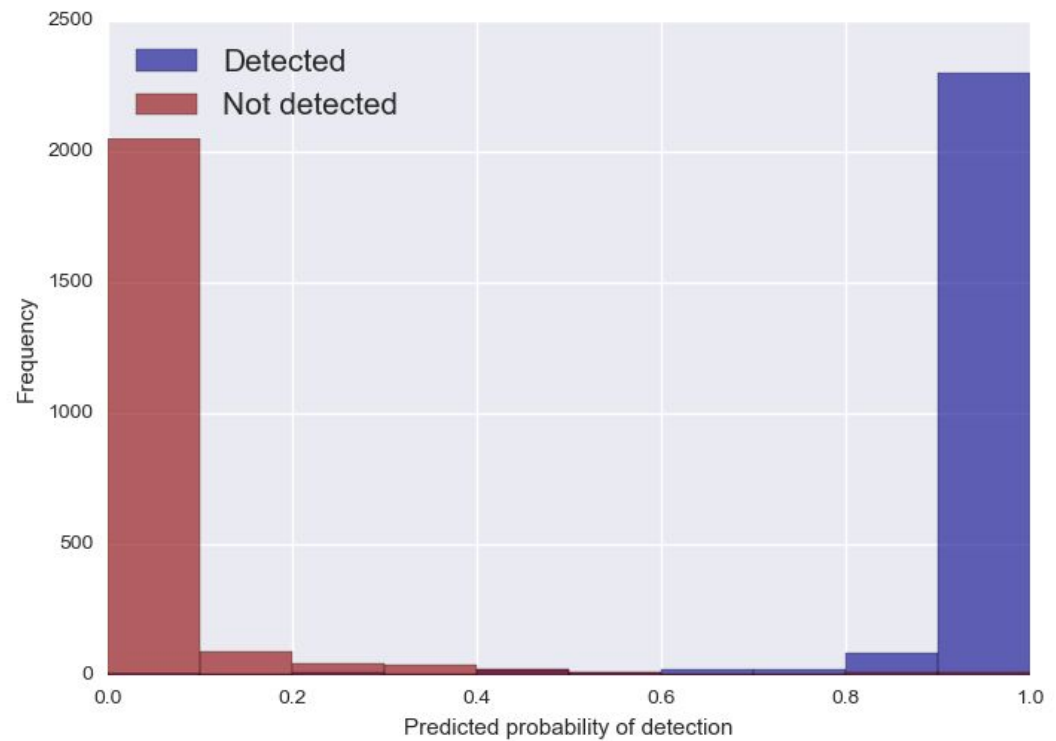
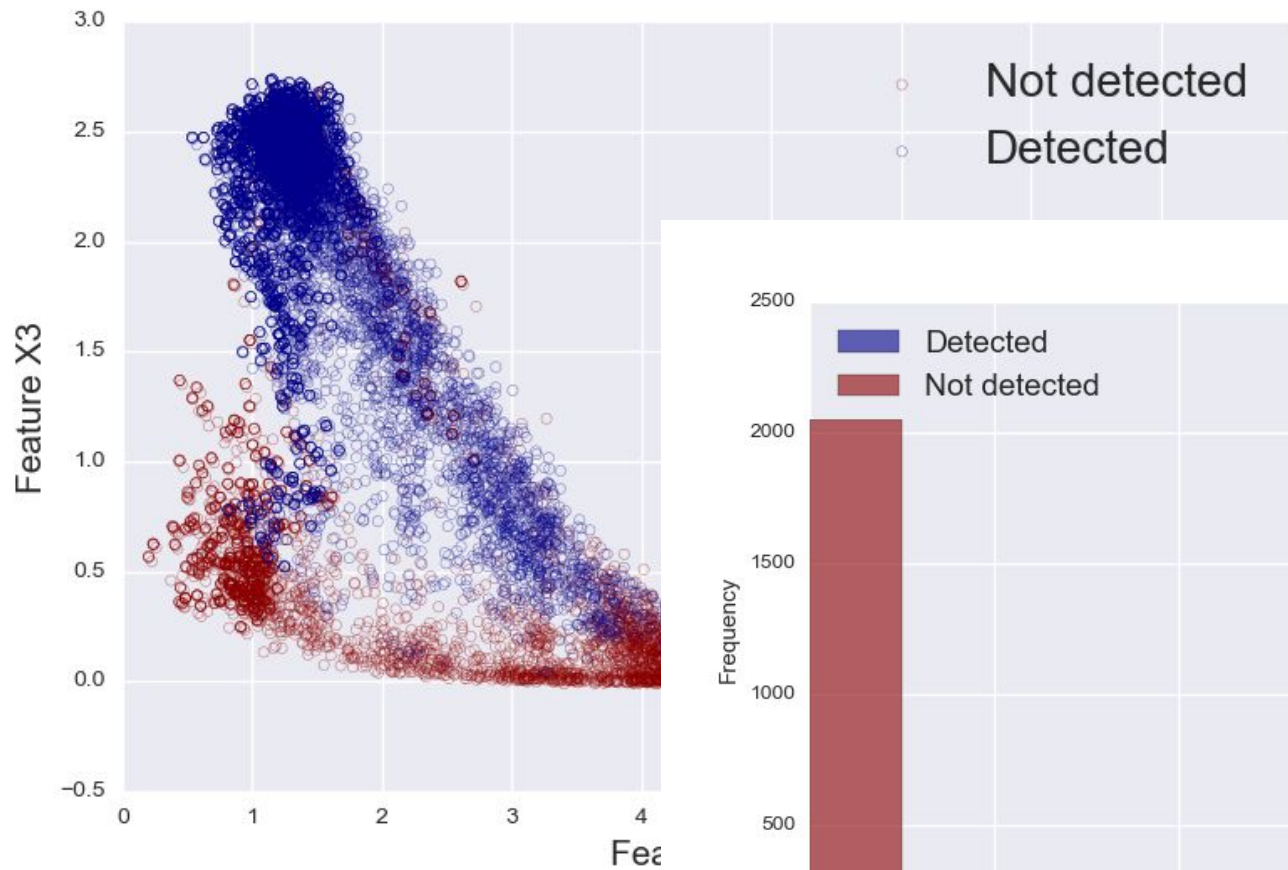


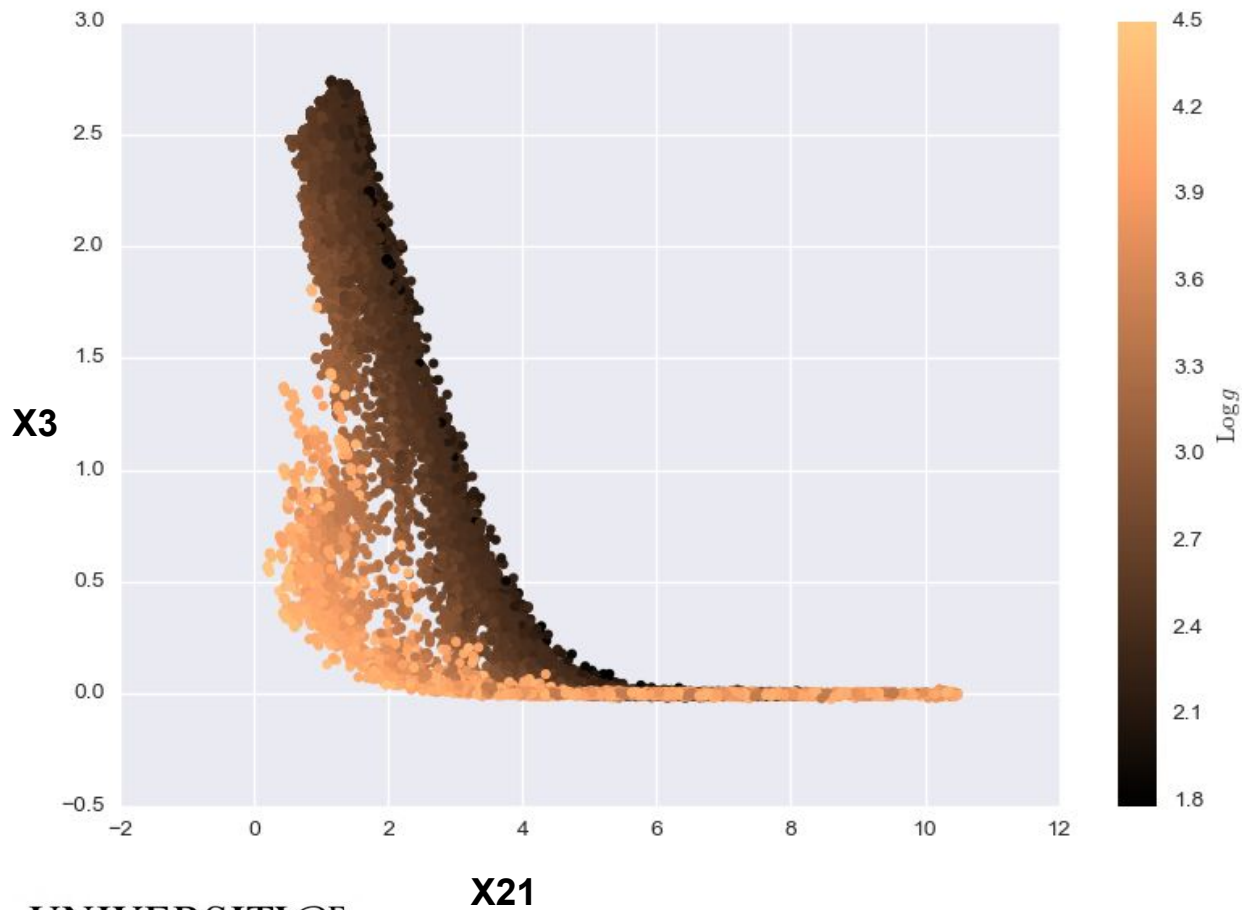




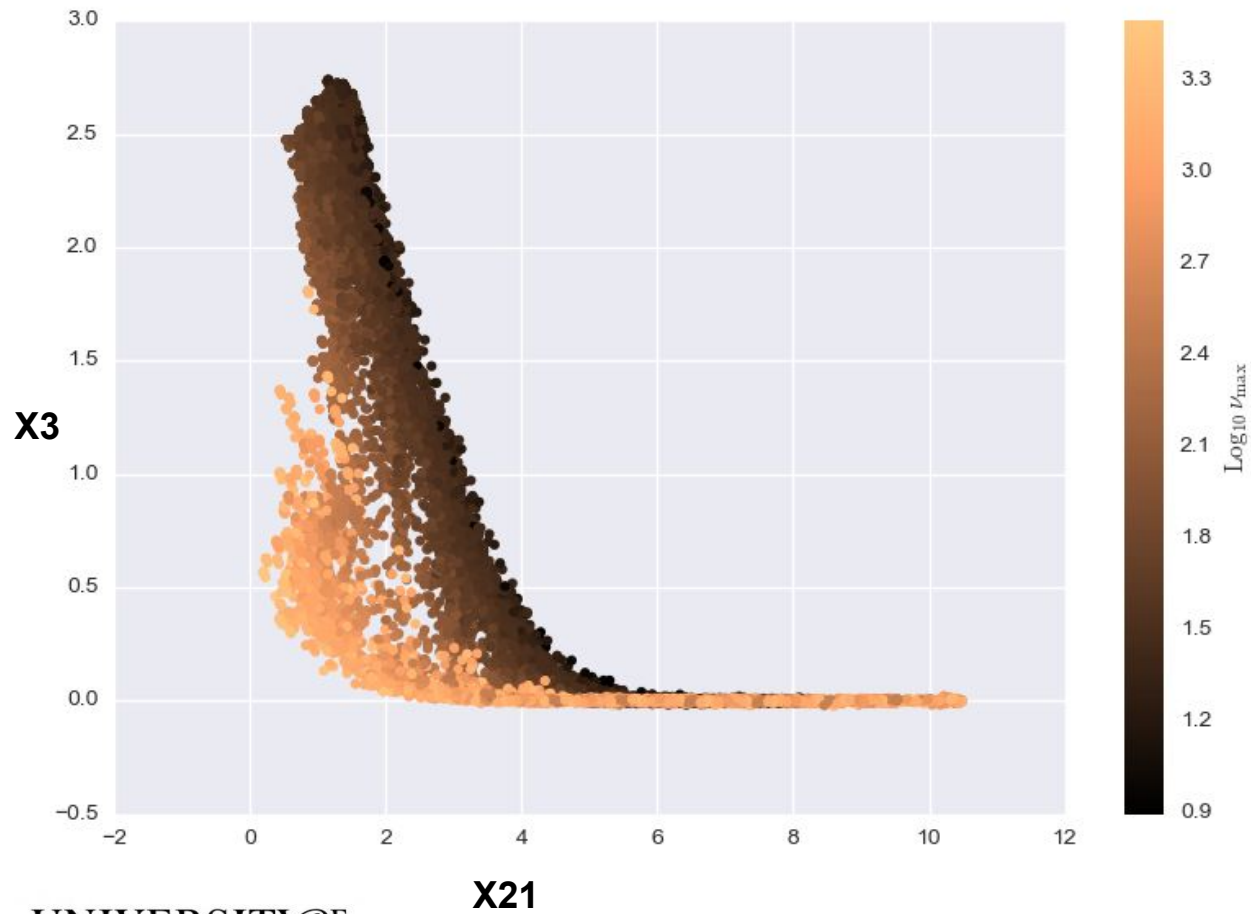


Chaplin 2014
Pinsonneault 2014
+ Added noise



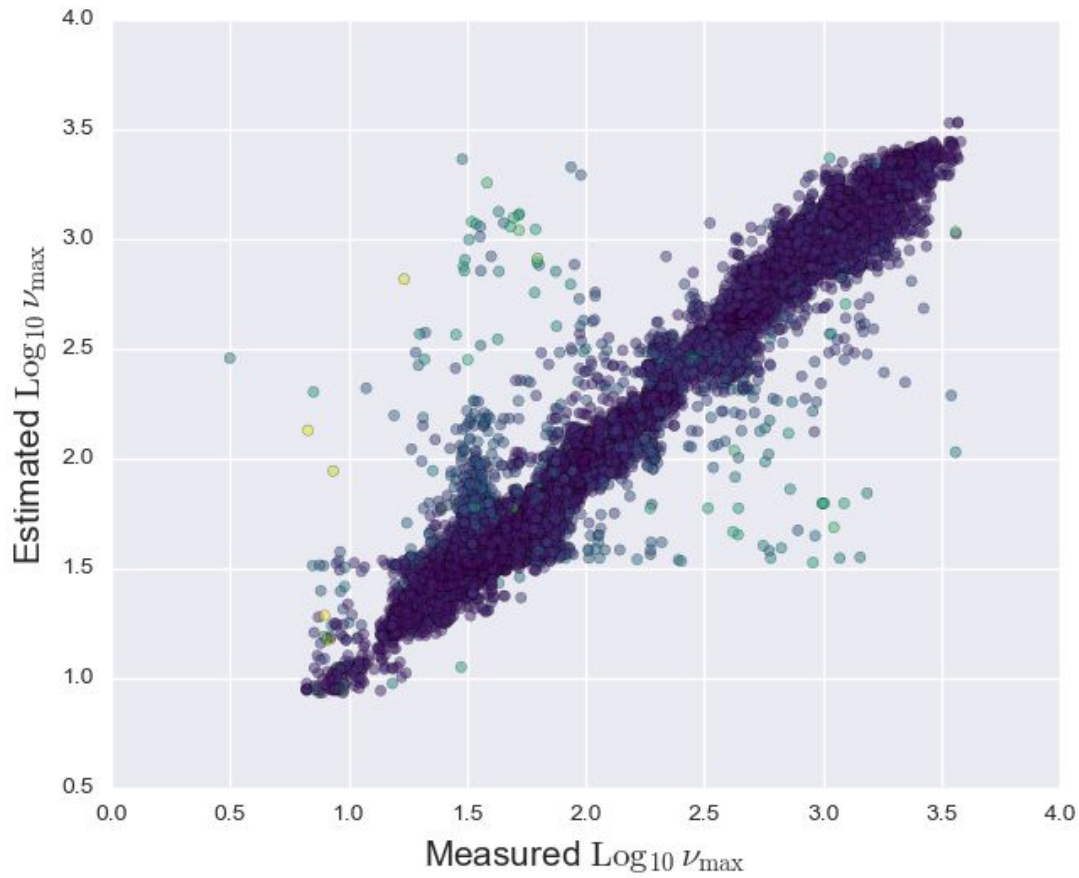


C.f. Flicker -
Hekker+ 2012
Bastien+ 2013 & 2016
Kipping+ 2014
Angus+ 2016

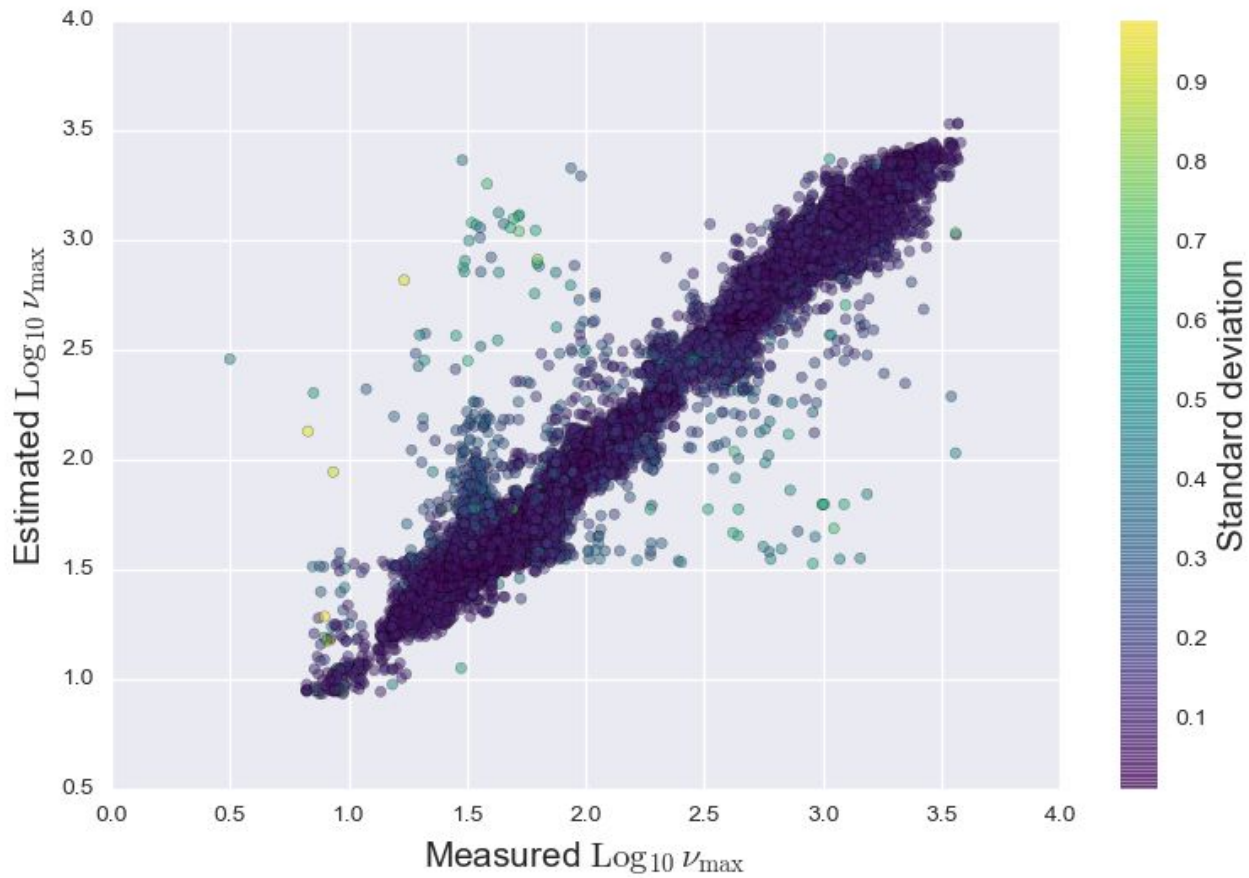


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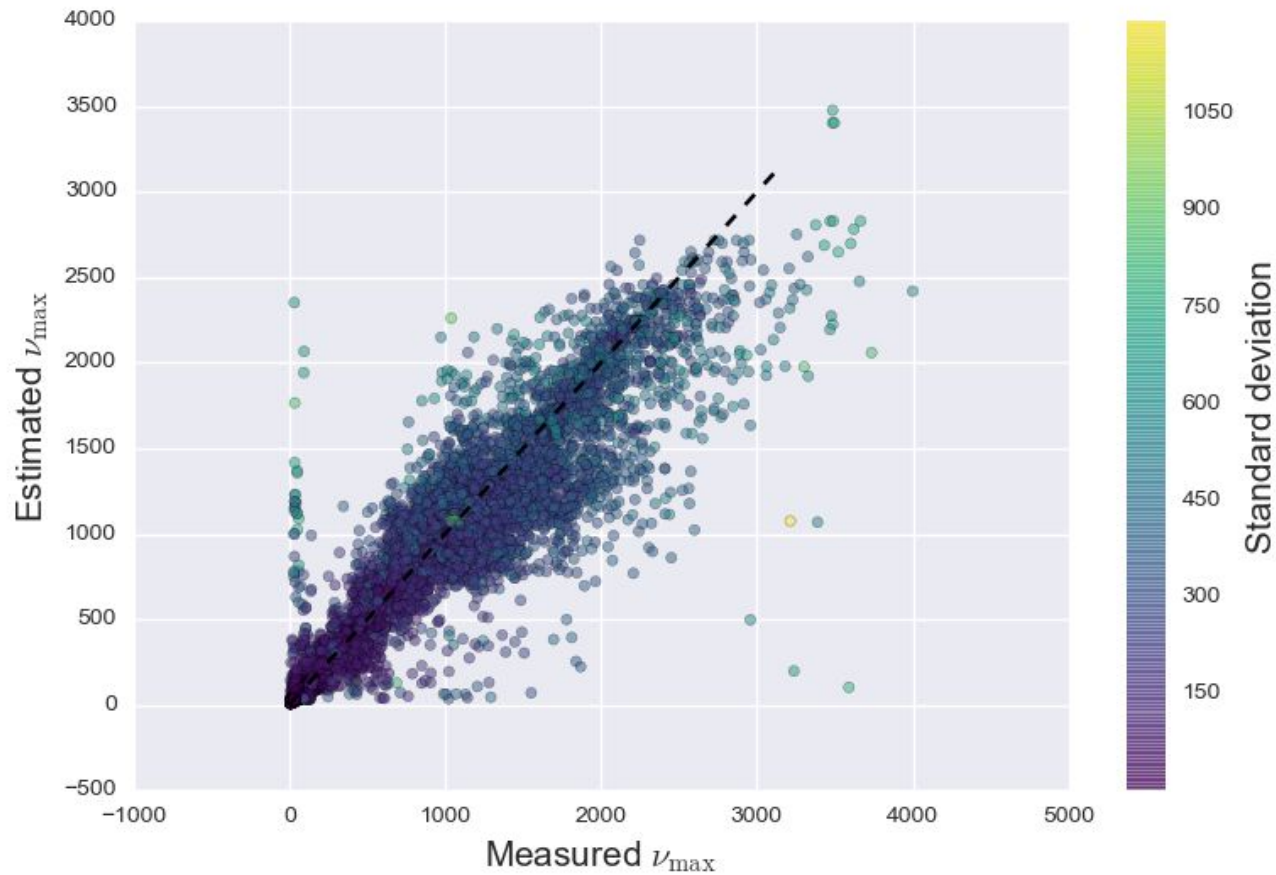


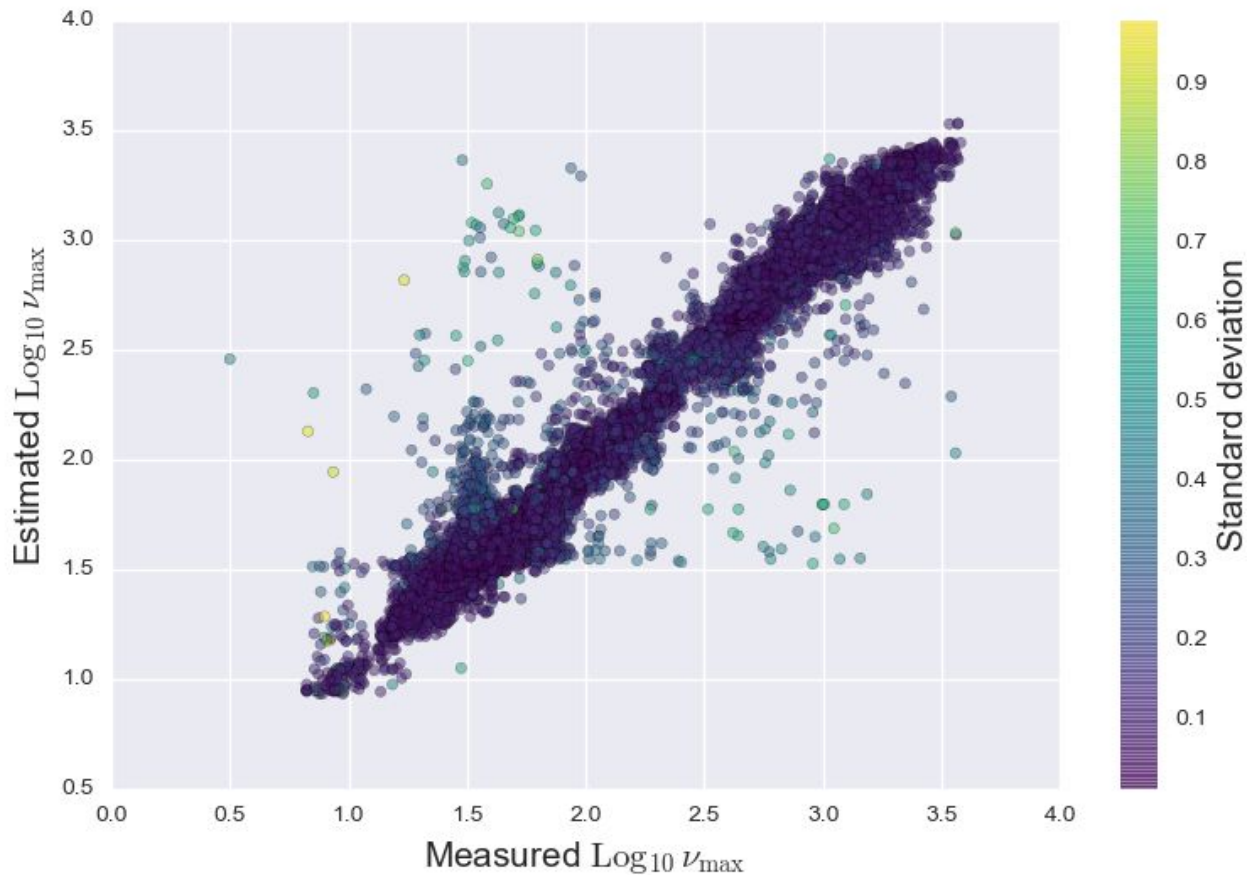
Magnitude limit ~ 14 Kp



Magnitude limit ~ 14 Kp





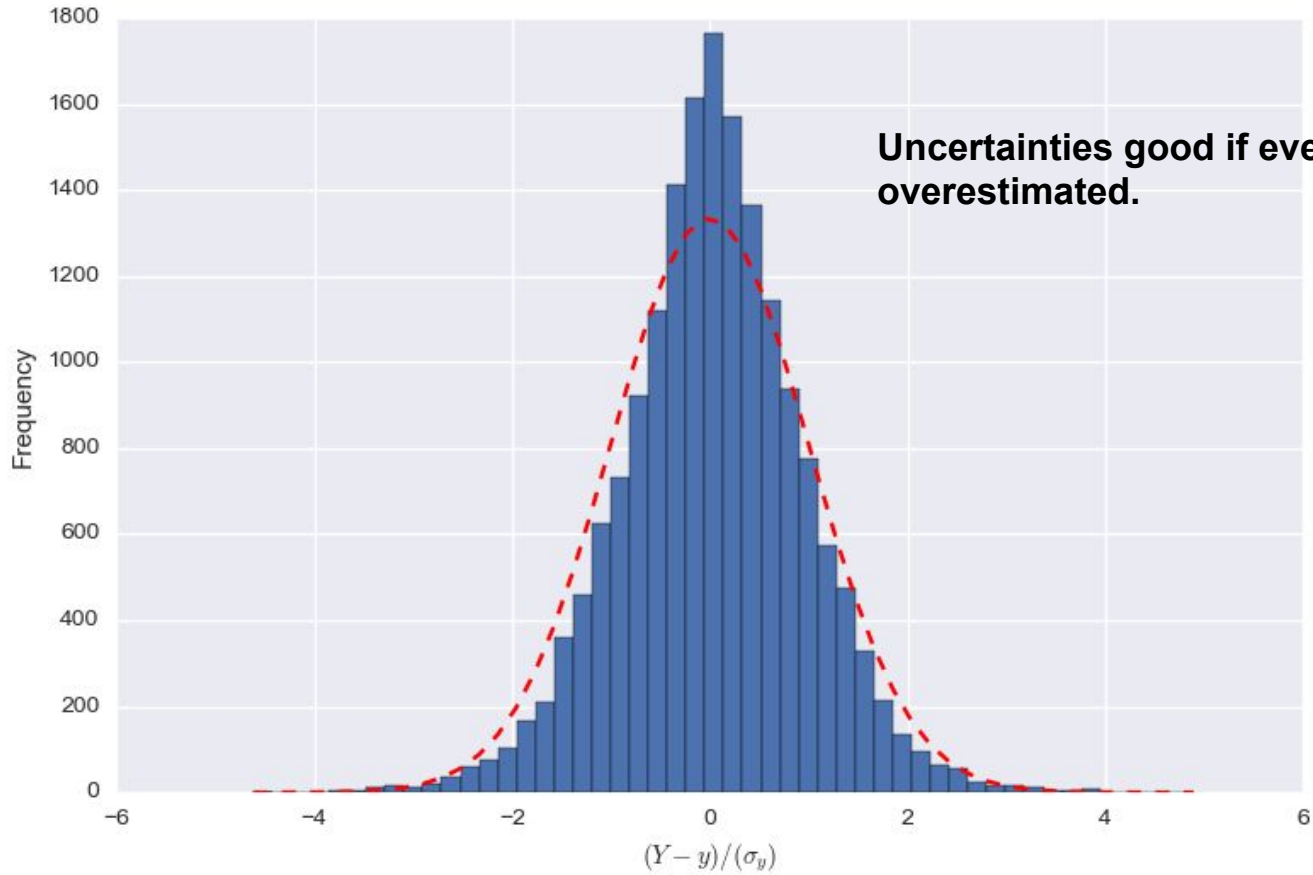


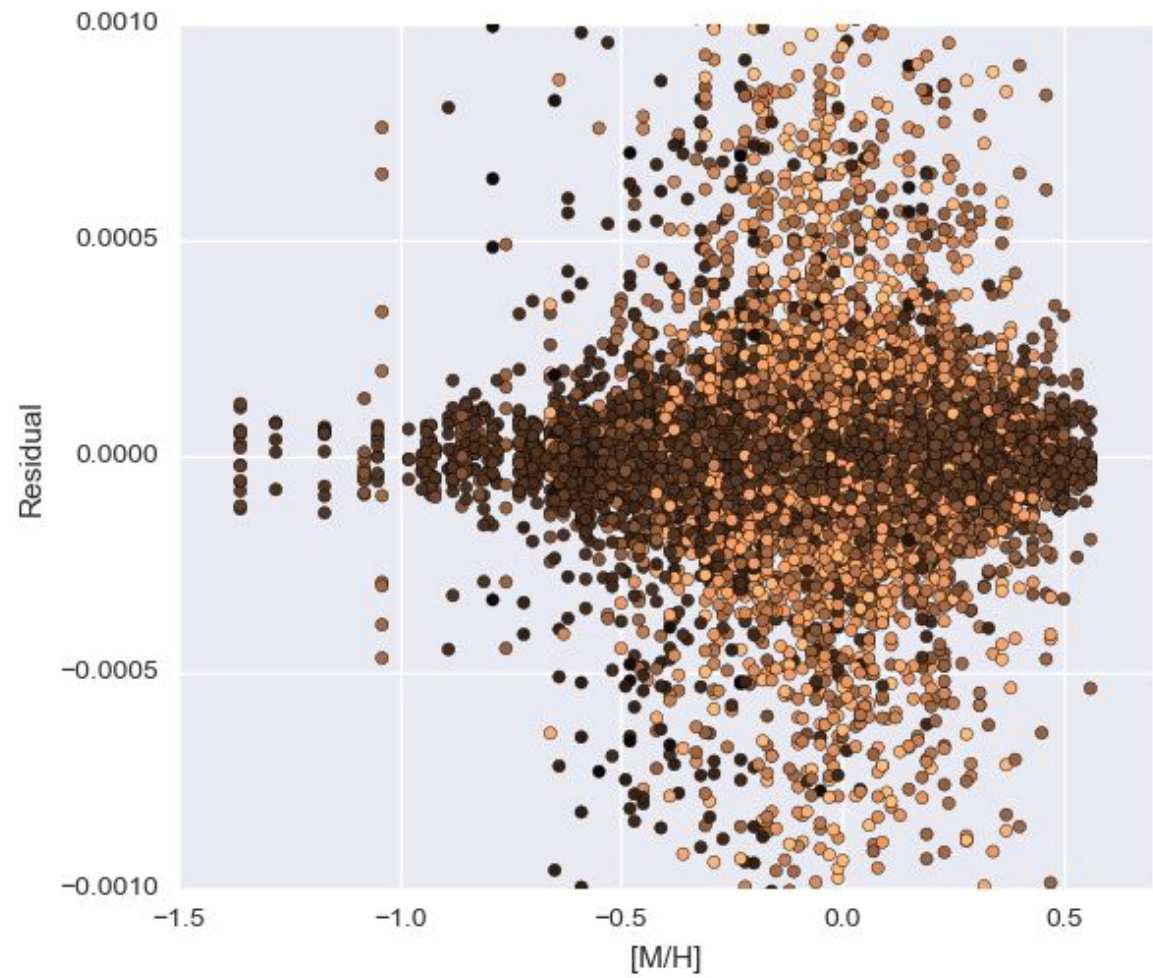
Median standard deviation

- Bastien+ 2016 ~ 0.058
- This work ~ 0.044 (logg not numax)

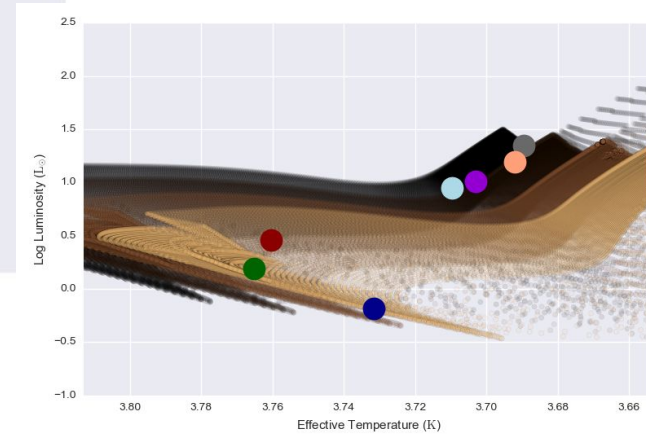
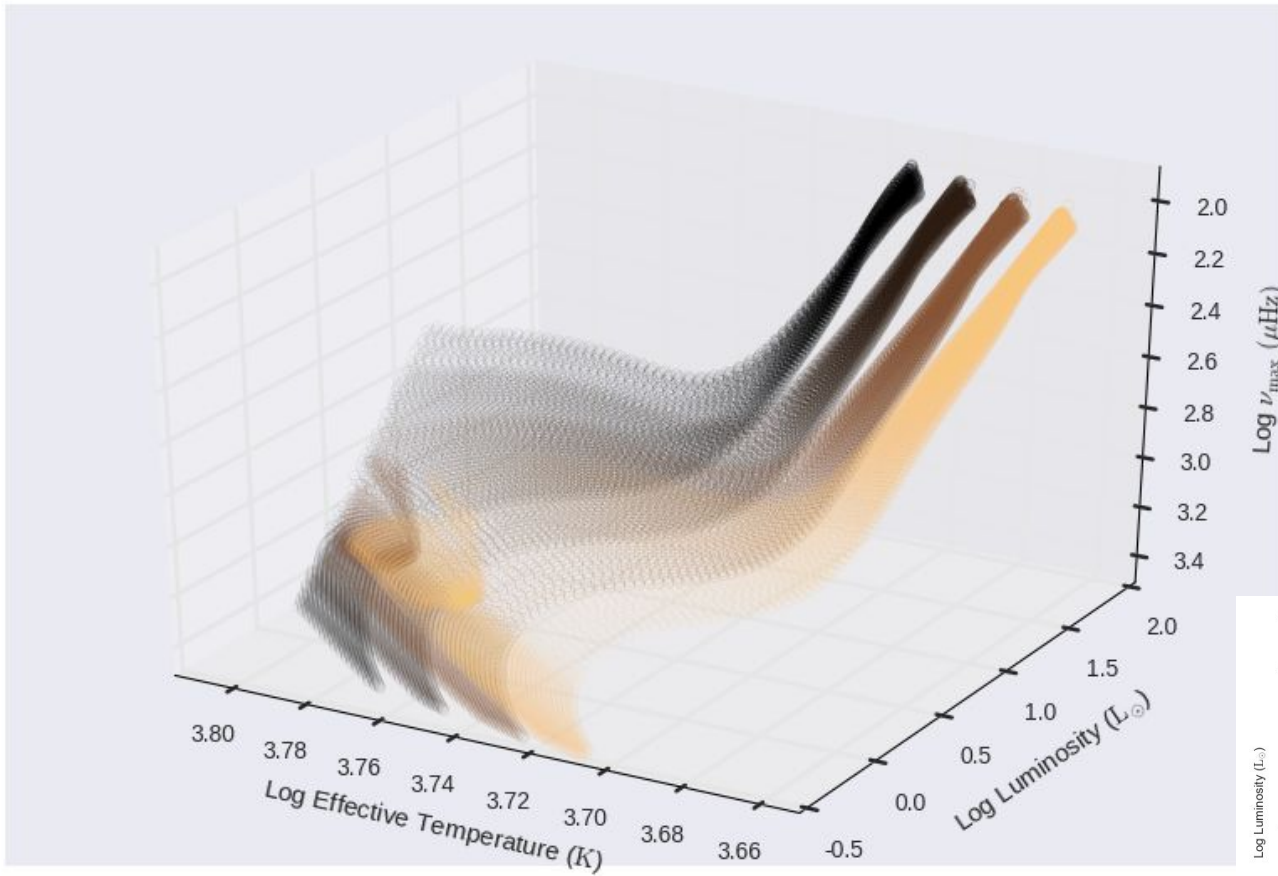
Standard deviation

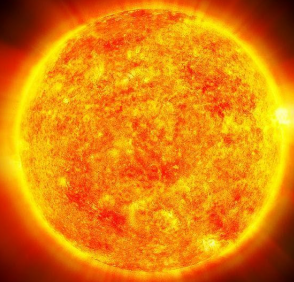
- Bastien+ 2016 ~ 0.096
- This work ~ 0.095 (logg not numax)





**Log10
numax**





Research Fellow in Solar/Stellar Seismology at the University of Birmingham

Helioseismology and asteroseismology: the Solar-Stellar Connection

**For more information chat to *Guy Davies, Andrea Miglio,*
Yvonne Elsworth or email *Bill Chaplin***

To apply, search for post 43840 at <http://www.birmingham.ac.uk/staff/jobs/>

Closing date for applications: July 24

