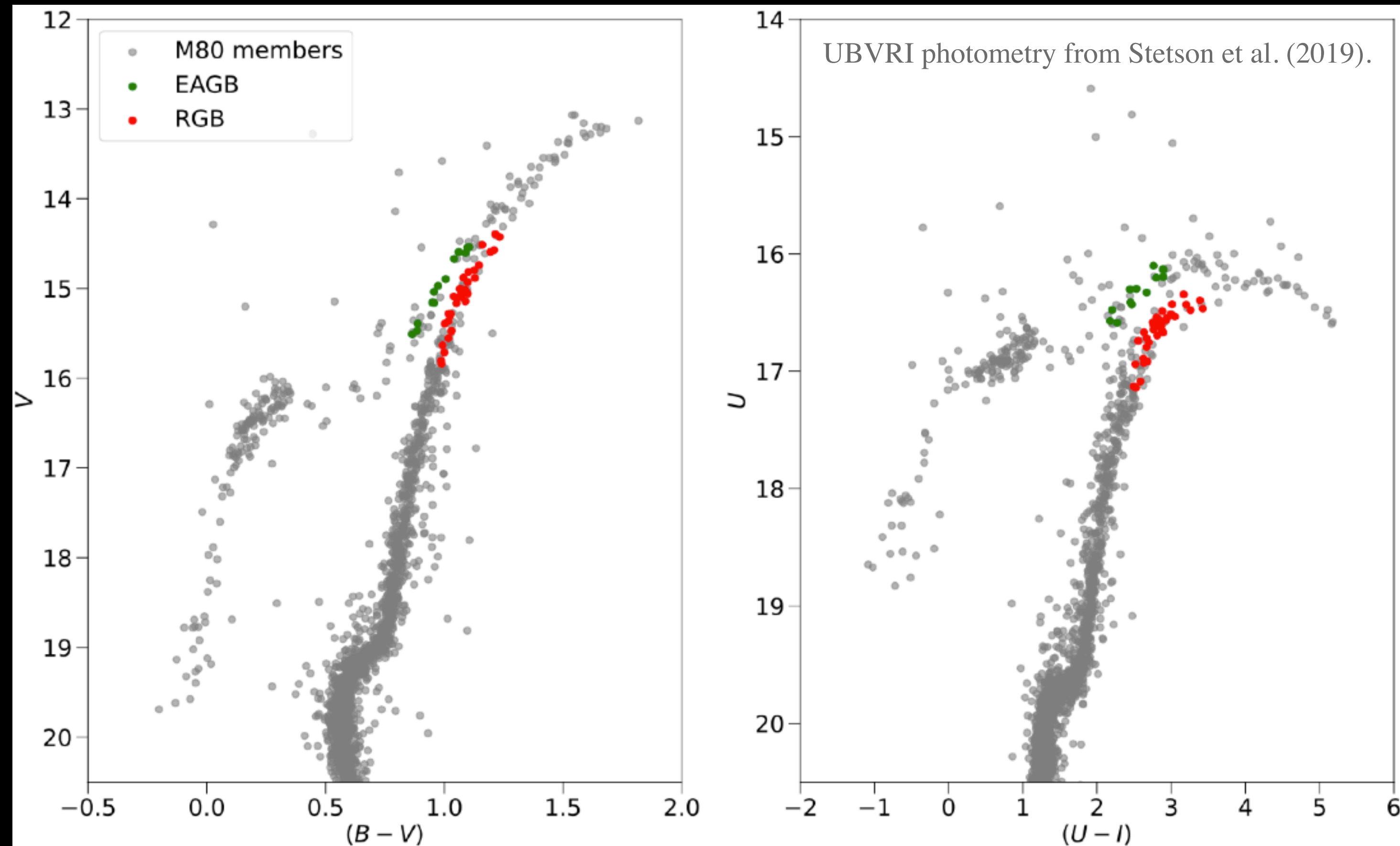# Data Used

To distinguish between RGB and E-AGB

- The data used for this study was photometry of Kepler Space Telescope during Campaign 2 of the *K2* mission ("Second Light")

- Each target pixel file consisted of a grid of 50 x 50 pixels, and comprised of ~ 80 days of observations across 3856 30-minute long cadences.

UBVRI photometry from Stetson et al. (2019).

M80 members
EAGB
RGB

Data Treatment

Aperture mask and de trended

- Due to the large pixel size and the crowd environment , there is evidence of blending between stars

- 3 steps:
  1) custom individual mask
     (Around peak)

  2) A pixel level decorrelation
     (instrumental drifts)

  3) Self flat fielding corrector
     (long terms trends, they pick a time scale of 9 days)

Lomb-Scargle periodograms