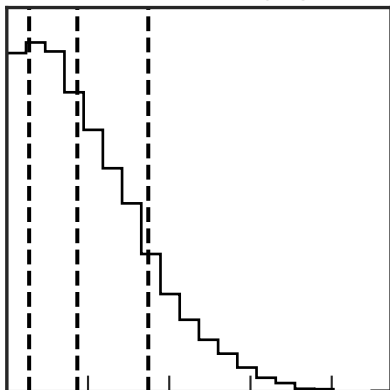
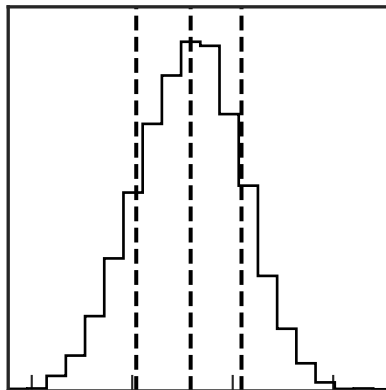


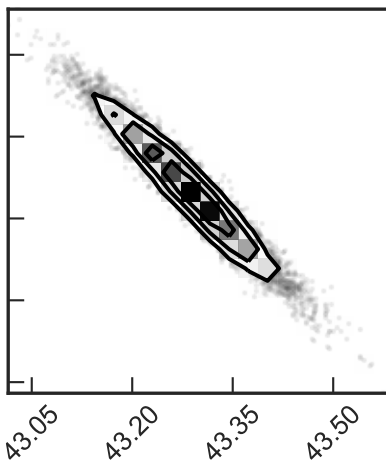
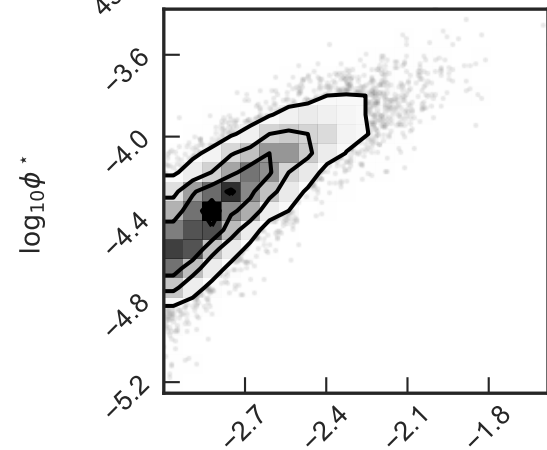
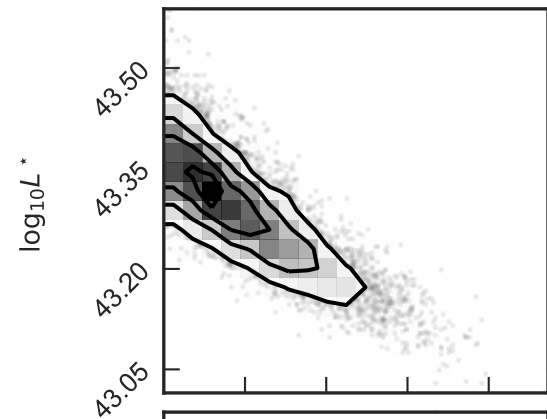
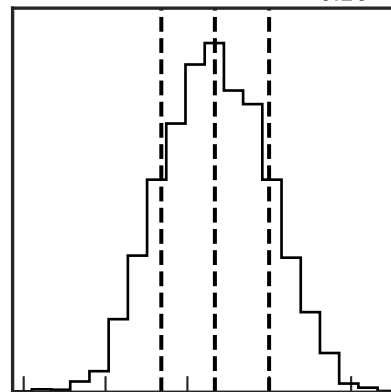
$$\alpha = -2.74^{+0.26}_{-0.18}$$



$$\log_{10} L^* = 43.29^{+0.08}_{-0.08}$$



$$\log_{10} \phi^* = -4.27^{+0.26}_{-0.26}$$

 α $\log_{10} L^*$ $\log_{10} \phi^*$