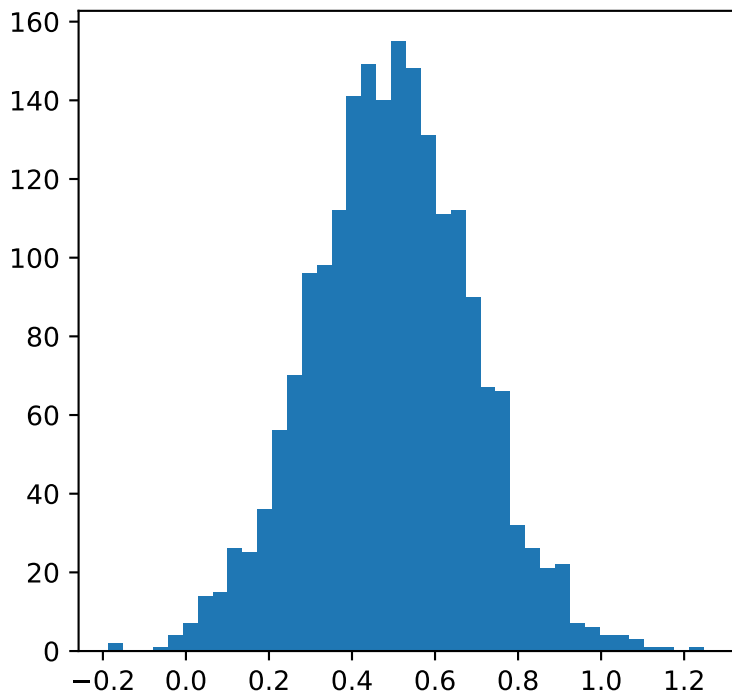
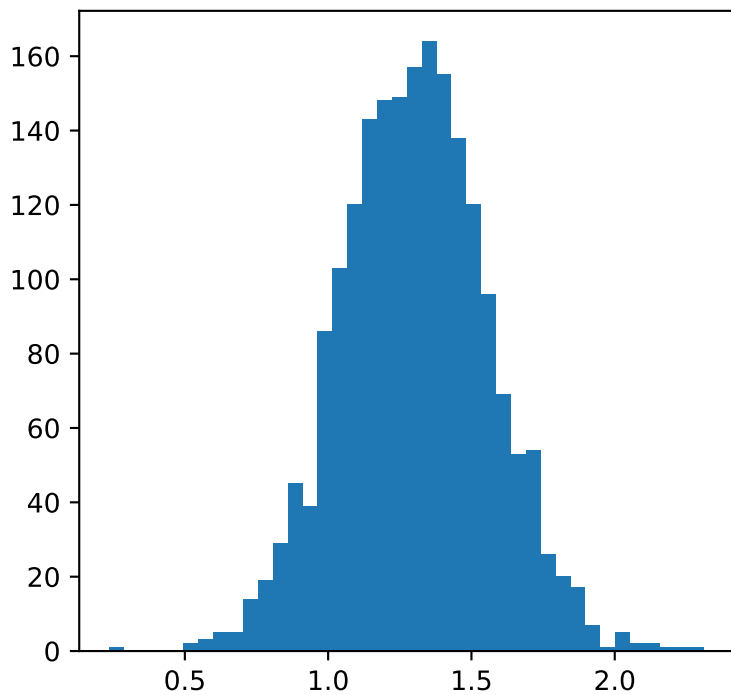


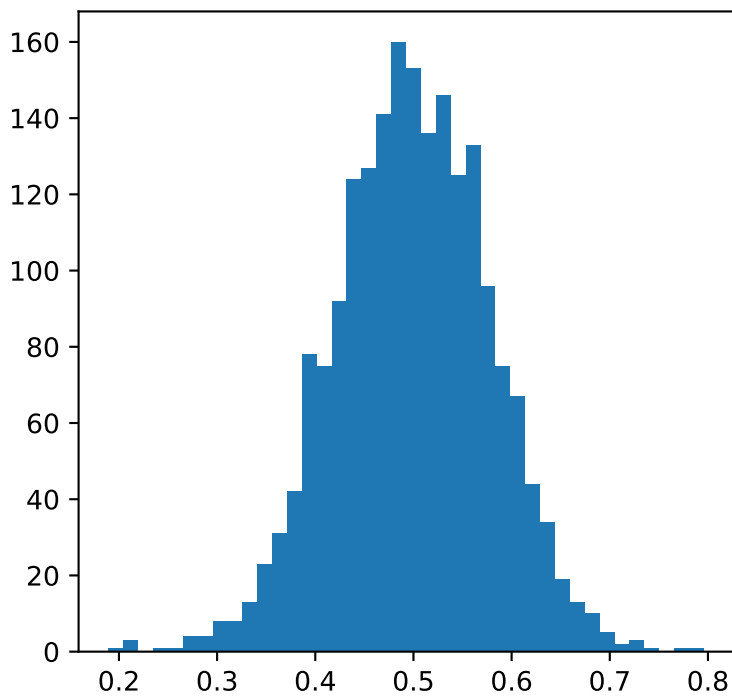
a distribution



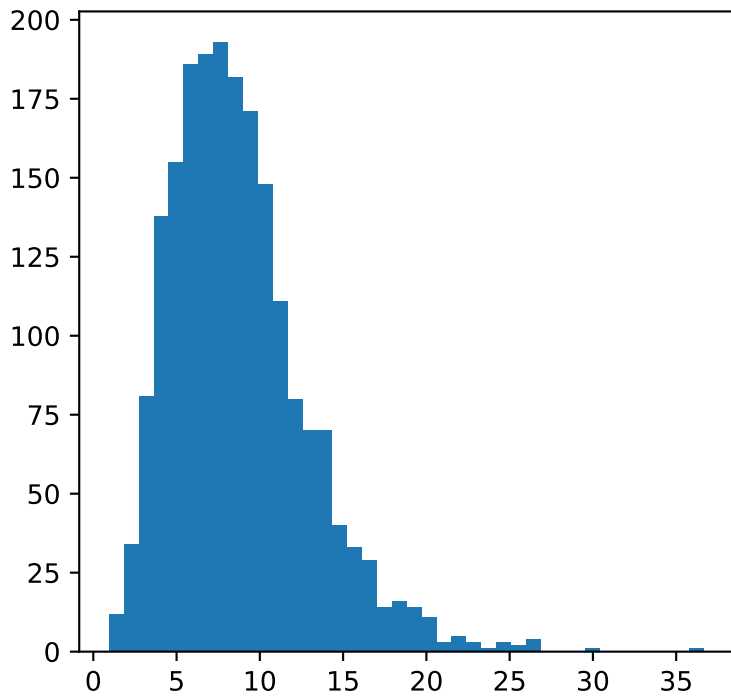
b distribution



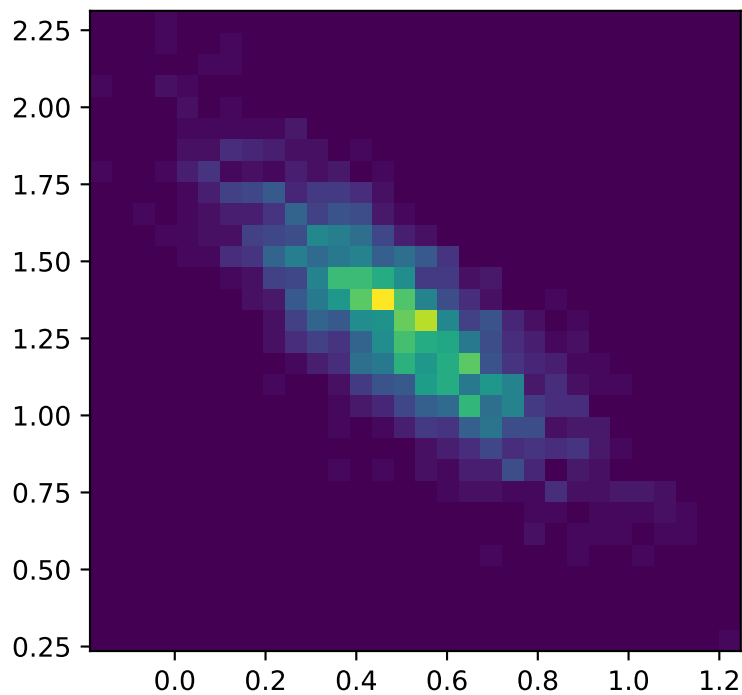
c distribution



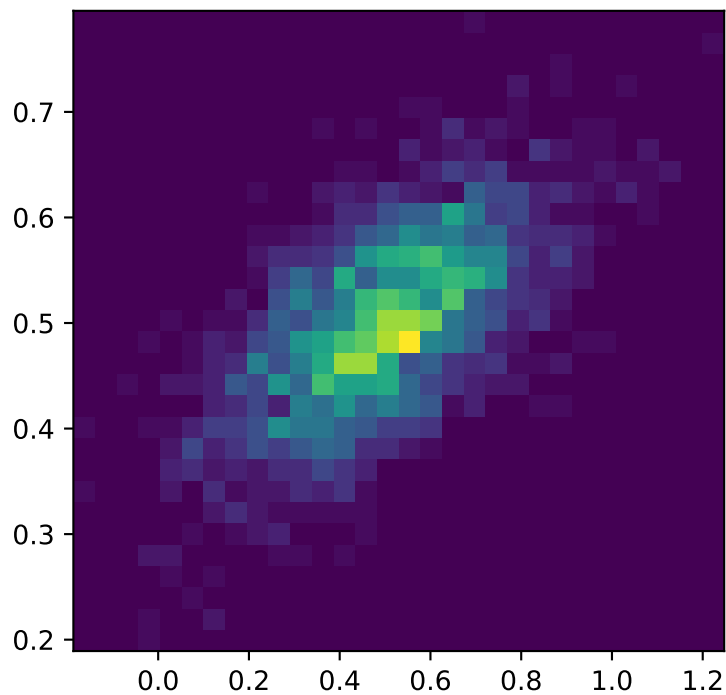
Chi2 distribution



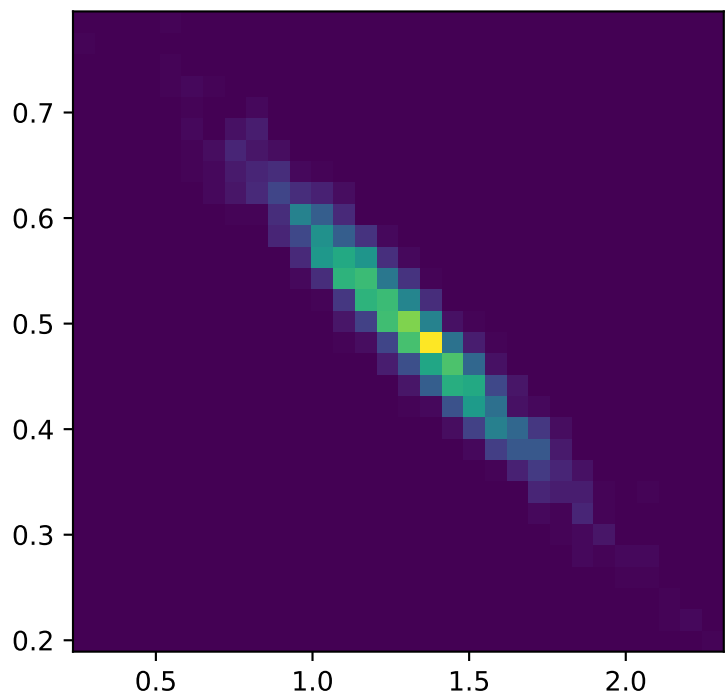
b vs a



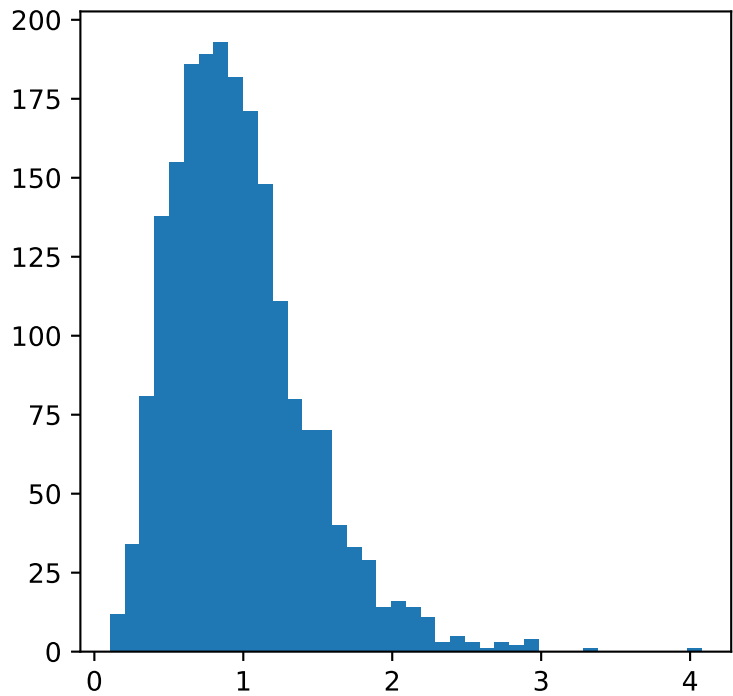
c vs a



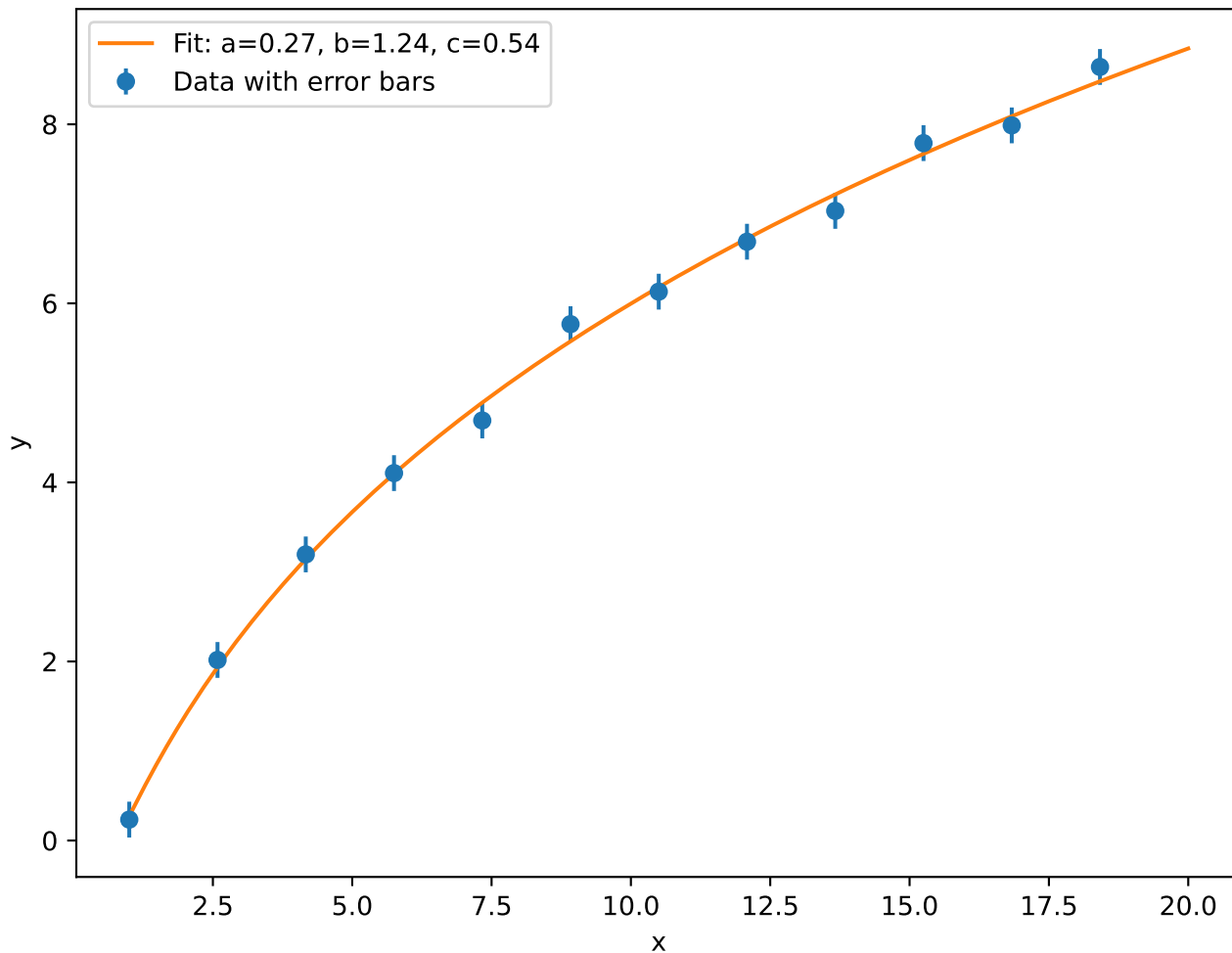
c vs b



Reduced chi2



Least Squares Fit on One Dataset



## Comments:

- Mean  $\chi^2 = 8.75$  (Expected  $\approx 9$ )
- Std  $\chi^2 = 4.10$  (Expected  $\approx 4.24$ )
- Mean reduced  $\chi^2 = 0.97$  (Expected  $\approx 1$ )
- More data points  $\rightarrow$  narrower parameter spreads.
- Larger sigma  $\rightarrow$  wider spreads and worse  $\chi^2$ .