

What is a histogram?

- ---> Data modeled by a step function
- —> How do we determine/estimate/guess the bin width?
- Do all the bins have to have the same width? No, there are methods to handle variable bin width (e.g. Bayesian Blocks Method, Week 4 lectures)
- Do we really have to bin data to estimate model parameters? No, we do not! (and should not). Binning should be used only for visualization.
A good example: to “fit” a Gaussian to data, simply estimate the location and scale parameters, as we just discussed. To show results, you can then use histogram and overplot the fit.

