

HPCSE II - Exercise 2

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Task 4

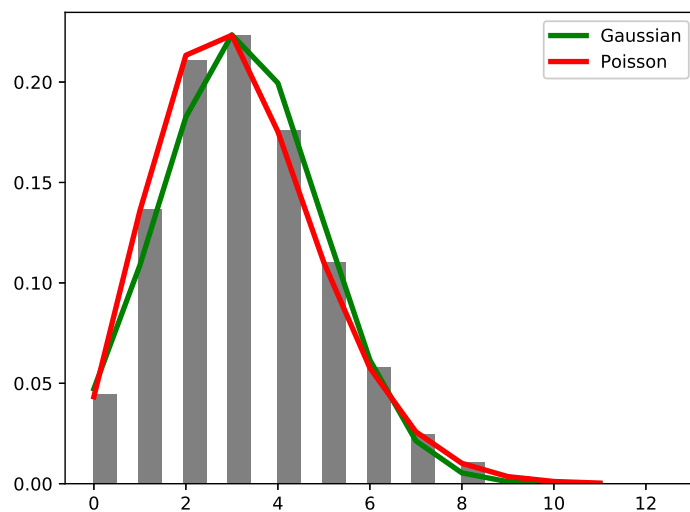


Figure 1: Normalized histogram with 100 bins and distributions from MLE parameters ($\hat{\lambda}_{\text{MLE}} = \hat{\mu}_{\text{MLE}} \approx 3.14$ and $\hat{\sigma}_{\text{MLE}} \approx 3.17$). The Poisson distribution clearly provides a better fit than the Gaussian. This agrees with the fact that maximum log-likelihood for the Poisson distribution is larger than the Gaussian's. As hypothesized, the data does not reflect the symmetry imposed by a Gaussian distribution.