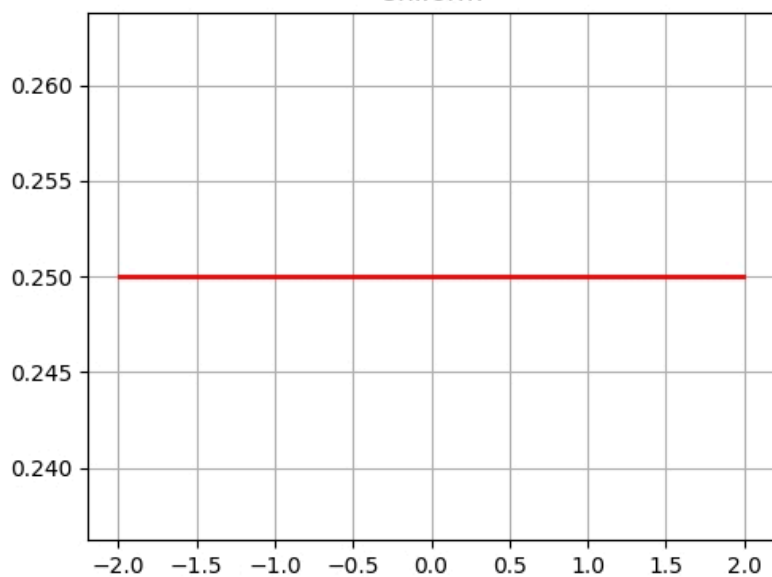
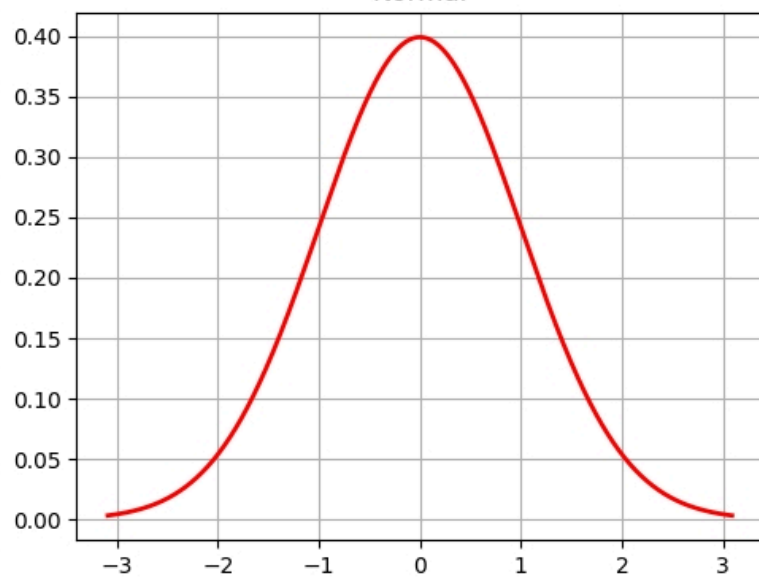


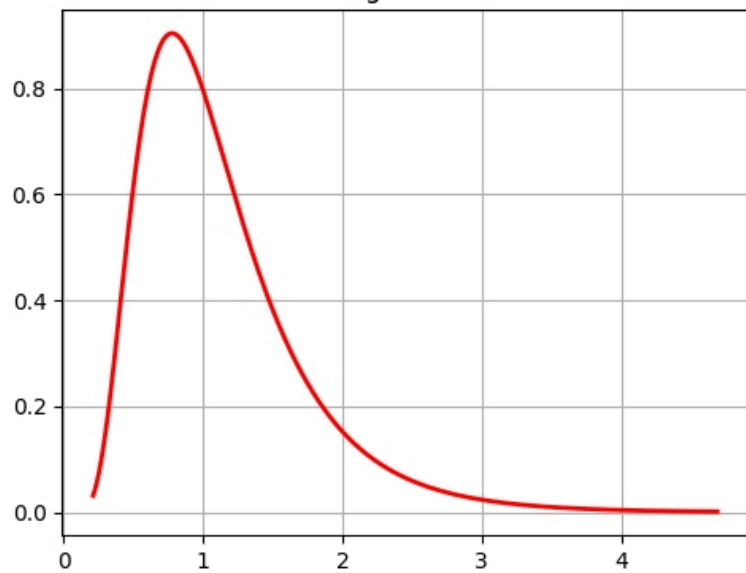
Uniform



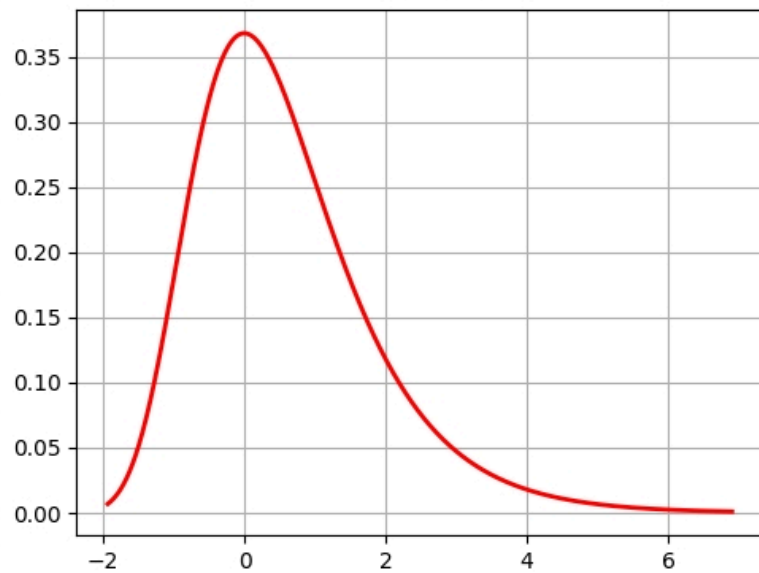
Normal



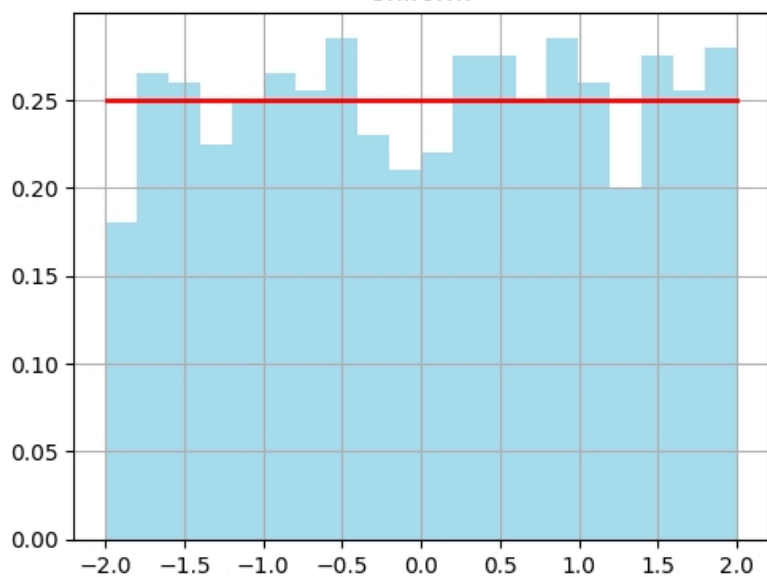
Lognormal



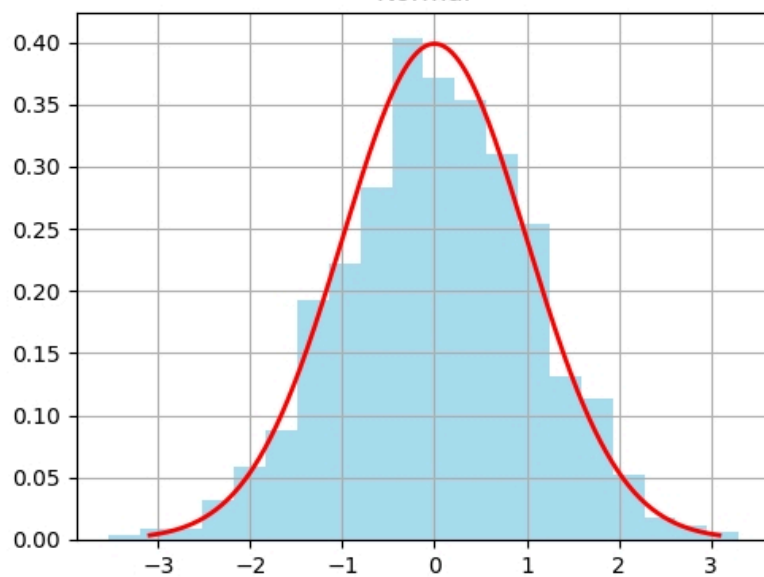
Gumbel-1



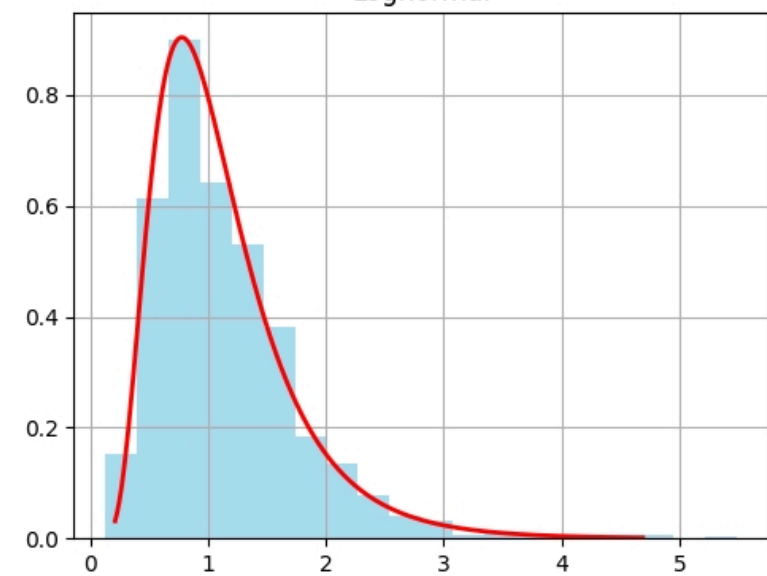
Uniform



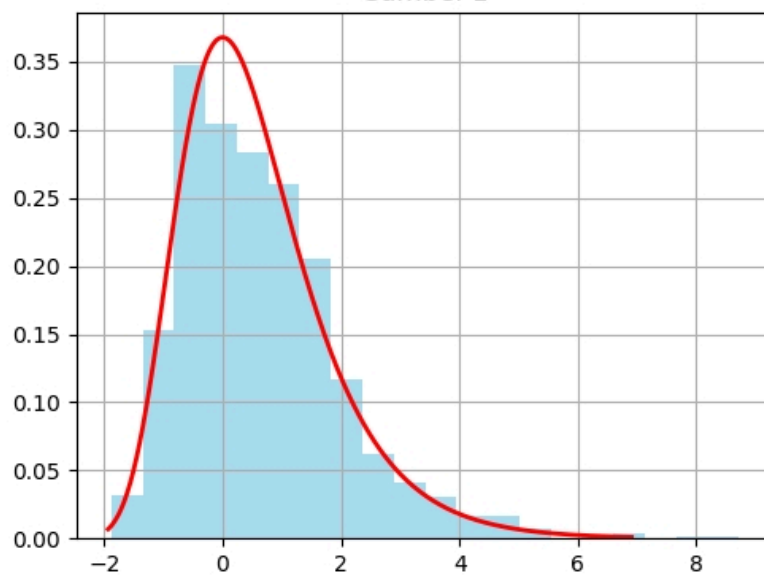
Normal



Lognormal

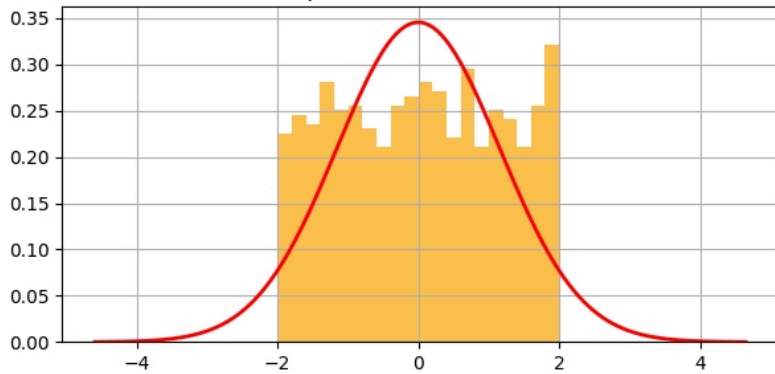


Gumbel-1

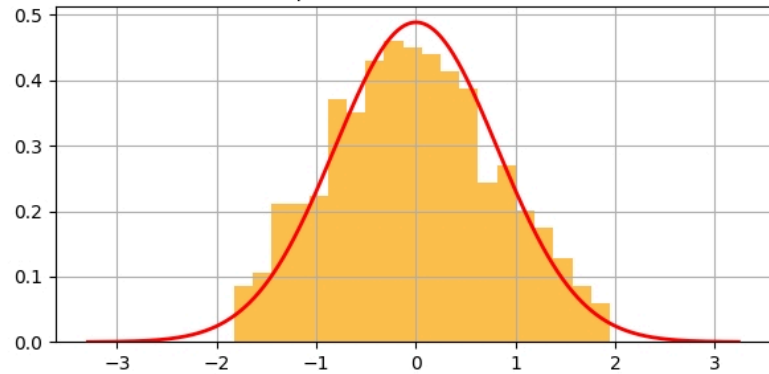


Averaging effect - Uniform

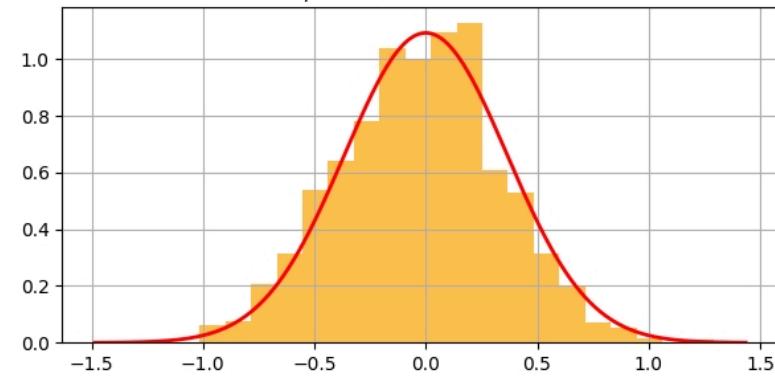
m=1
Theo $\mu=0.000$, Theo Var=1.333
Sim $\mu=0.028$, Sim Var=1.347



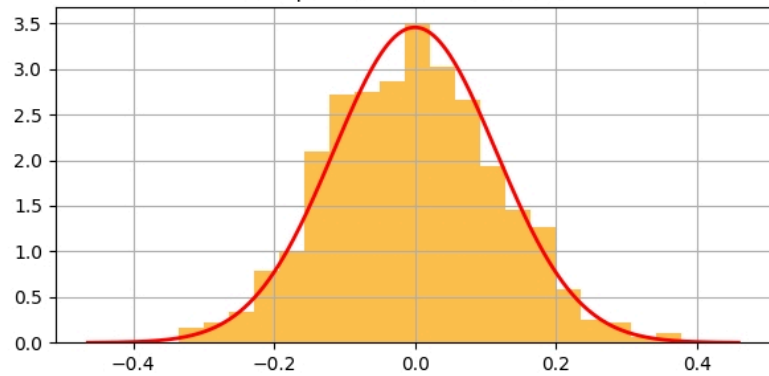
m=2
Theo $\mu=0.000$, Theo Var=0.667
Sim $\mu=-0.028$, Sim Var=0.680



m=10
Theo $\mu=0.000$, Theo Var=0.133
Sim $\mu=-0.025$, Sim Var=0.130

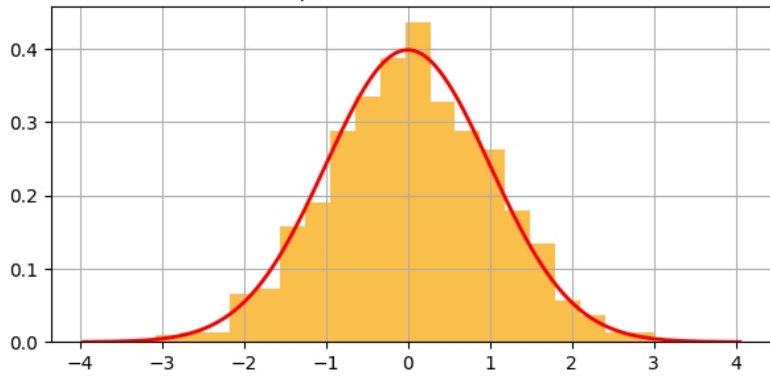


m=100
Theo $\mu=0.000$, Theo Var=0.013
Sim $\mu=-0.002$, Sim Var=0.014

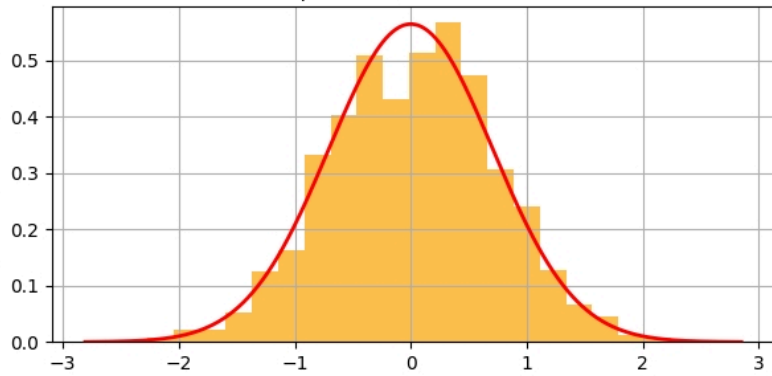


Averaging effect - Normal

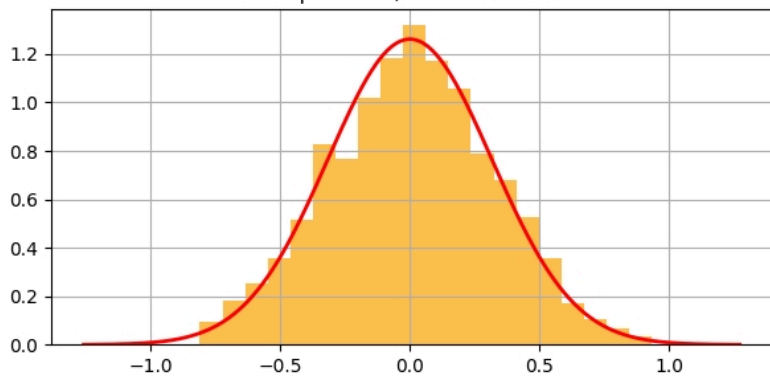
m=1
Theo $\mu=0.000$, Theo Var=1.000
Sim $\mu=0.048$, Sim Var=0.996



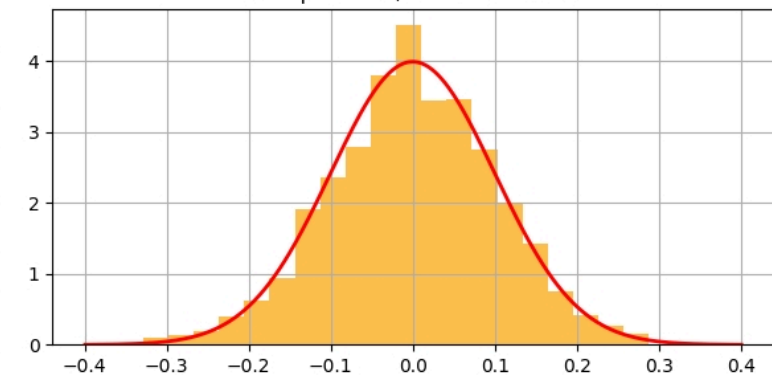
m=2
Theo $\mu=0.000$, Theo Var=0.500
Sim $\mu=0.021$, Sim Var=0.507



m=10
Theo $\mu=0.000$, Theo Var=0.100
Sim $\mu=0.007$, Sim Var=0.103

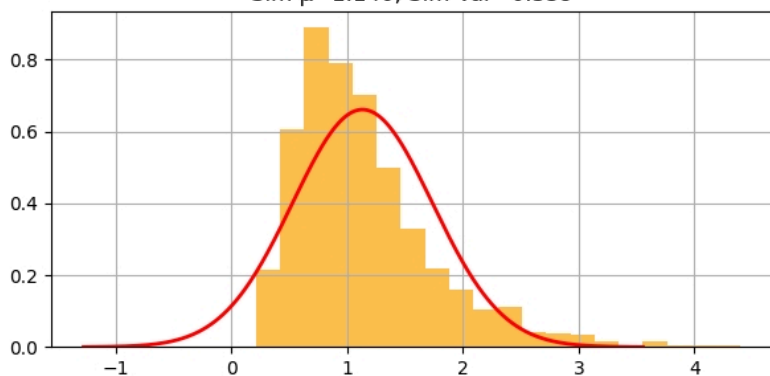


m=100
Theo $\mu=0.000$, Theo Var=0.010
Sim $\mu=0.001$, Sim Var=0.010

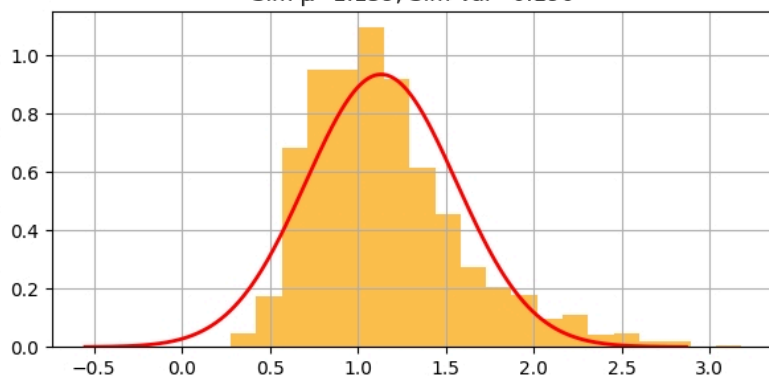


Averaging effect - Lognormal

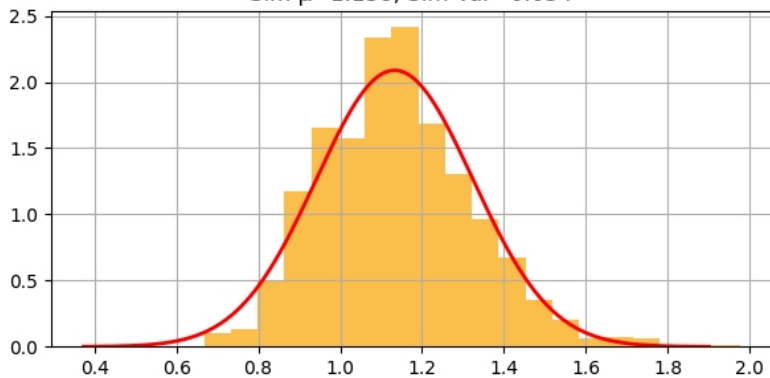
m=1
Theo $\mu=1.133$, Theo Var=0.365
Sim $\mu=1.140$, Sim Var=0.359



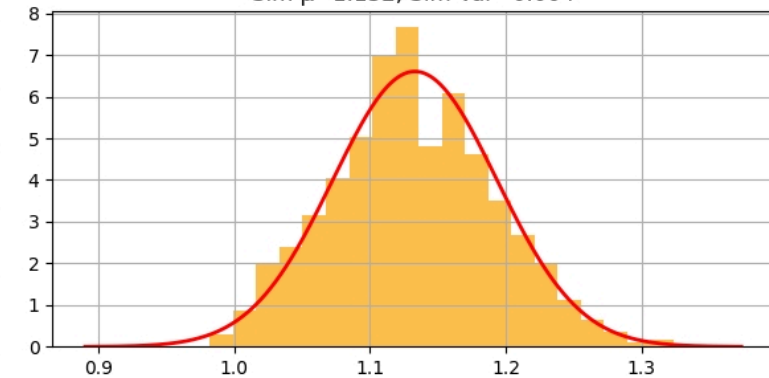
m=2
Theo $\mu=1.133$, Theo Var=0.182
Sim $\mu=1.159$, Sim Var=0.190



m=10
Theo $\mu=1.133$, Theo Var=0.036
Sim $\mu=1.138$, Sim Var=0.034

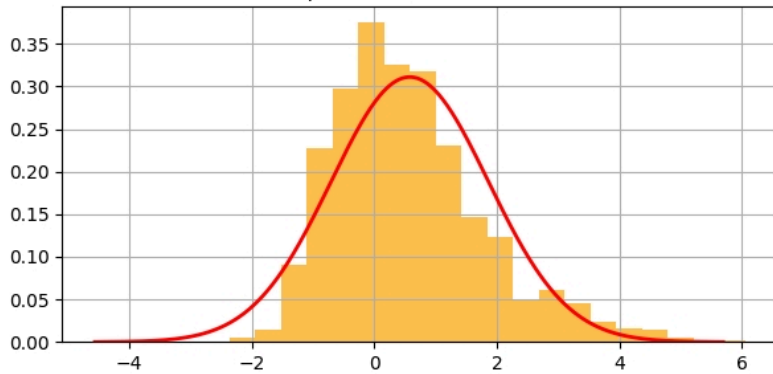


m=100
Theo $\mu=1.133$, Theo Var=0.004
Sim $\mu=1.132$, Sim Var=0.004

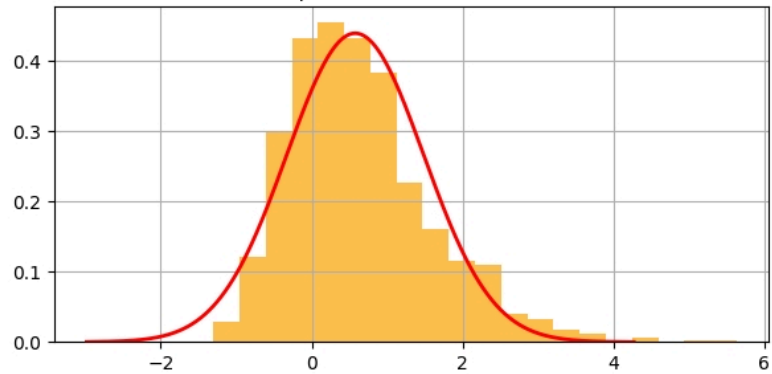


Averaging effect - Gumbel-1

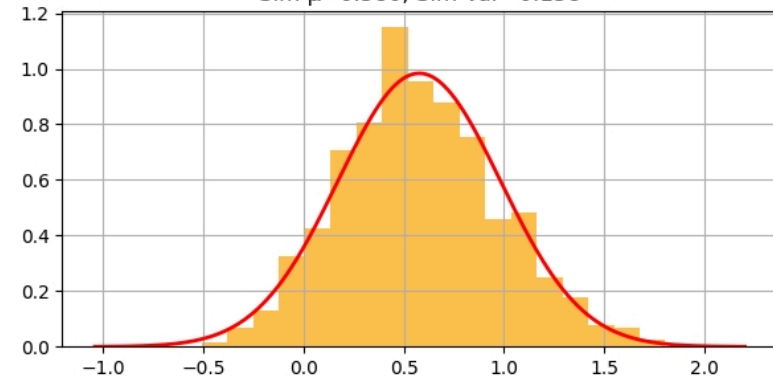
m=1
Theo $\mu=0.577$, Theo Var=1.645
Sim $\mu=0.565$, Sim Var=1.547



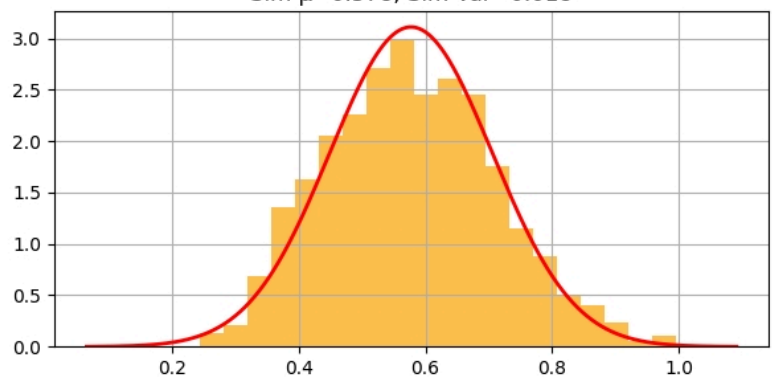
m=2
Theo $\mu=0.577$, Theo Var=0.822
Sim $\mu=0.644$, Sim Var=0.906



m=10
Theo $\mu=0.577$, Theo Var=0.164
Sim $\mu=0.580$, Sim Var=0.158

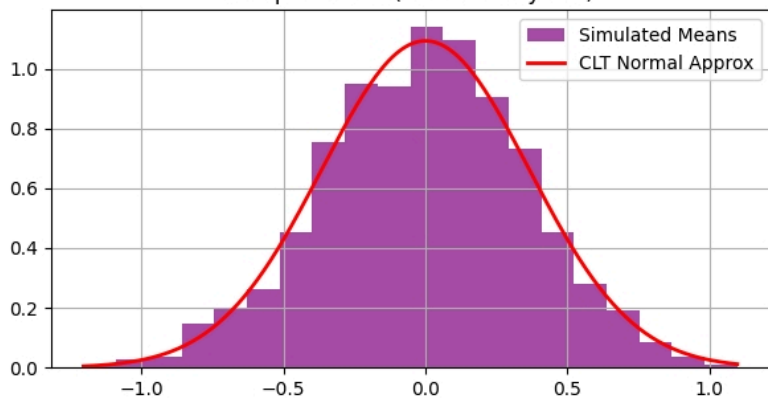


m=100
Theo $\mu=0.577$, Theo Var=0.016
Sim $\mu=0.578$, Sim Var=0.018

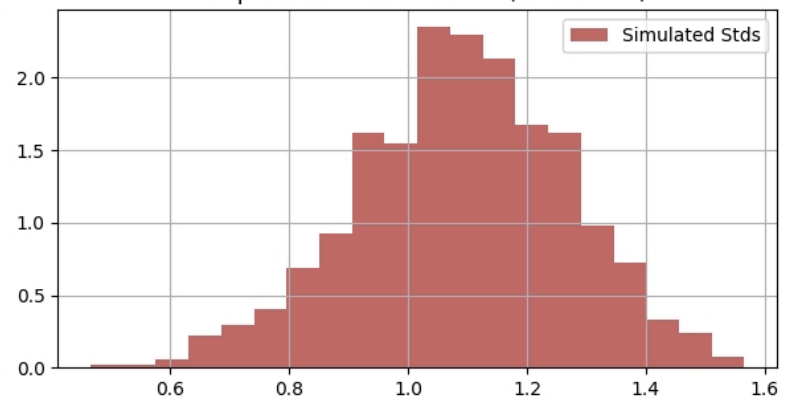


Uniform: Sample Means vs Stds

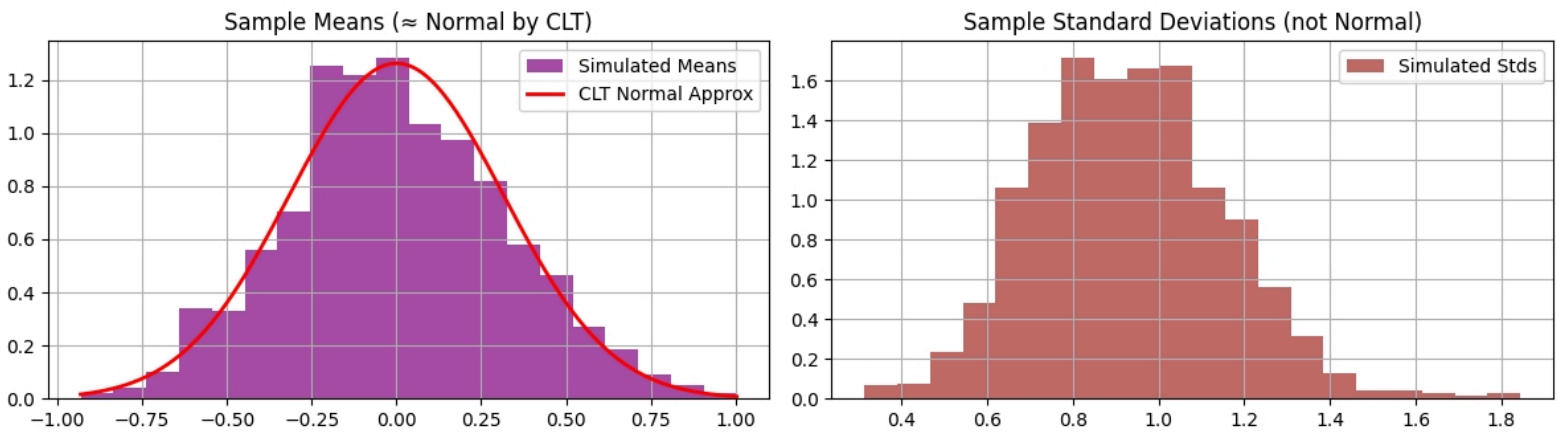
Sample Means (\approx Normal by CLT)



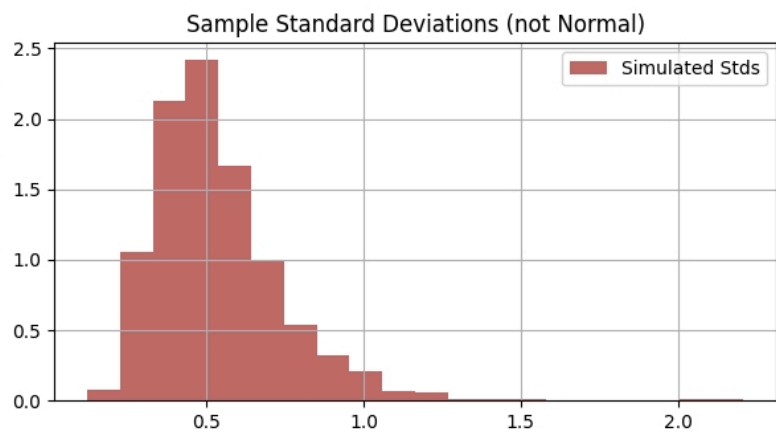
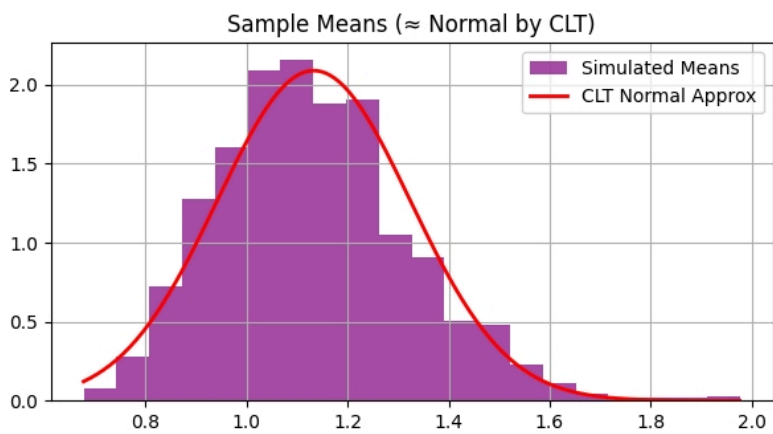
Sample Standard Deviations (not Normal)



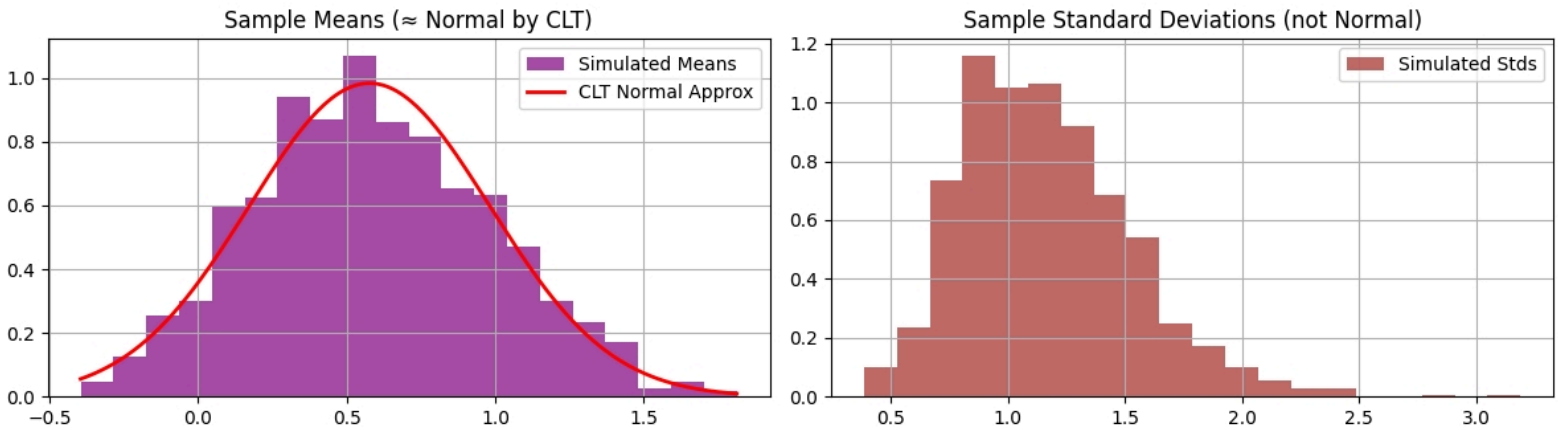
Normal: Sample Means vs Stds



Lognormal: Sample Means vs Stds



Gumbel-1: Sample Means vs Stds



99% Confidence Intervals for Sample Means
Missed intervals: 2/100

