Save Step 1: Characterization Step 2: Synthesis Step 3: Analysis 0.6_{1} **Characterization Data** Observed Select File D:\example_data\LFP_seg_Charac.mat gamma 0.5 lognormal **Synthesis Settings** exponential Rate density (Hz/µV) 1000 Hz Sampling Rate
Same as LFP Data
Specify: Rng Seed 0 **Options** Load **Optimize Amplitude Distribution Parameters** Synthetic Data Length Default Specify: 1000 seconds 0.1 **Distribution Types** Population gamma Reset 12 gamma Fit Target
Amplitude peak Amplitude 0 lognormal 50 0 100 200 250 150 **Options** Fit exponential Amplitude peak (µV) **Generate Synthetic LFP** 351 Synthetic Data Length Observed LFP 30 Synthetic LFP 5000 Default Specify: seconds Synthetic background 25 Distribution Type Run gamma DSD (4B/Hz) 15 **Save Synthesis Parameters** LFP_seg_Syı Save ✓ Also Save Synthetic LFP Results 1.000 0.039 -0.003 5 0.039 1.000 0.070 -0.003 0.070 1.000 0 Logscale correlation coefficients: 1.000 0.056 0.003 -5 0.056 1.000 0.084 50 100 150 200 0.003 0.084 1.000 Frequency (Hz) Results saved in "D:\example data\LFP seg SynData.mat". **Power Spectral Density Bursts Statistics**