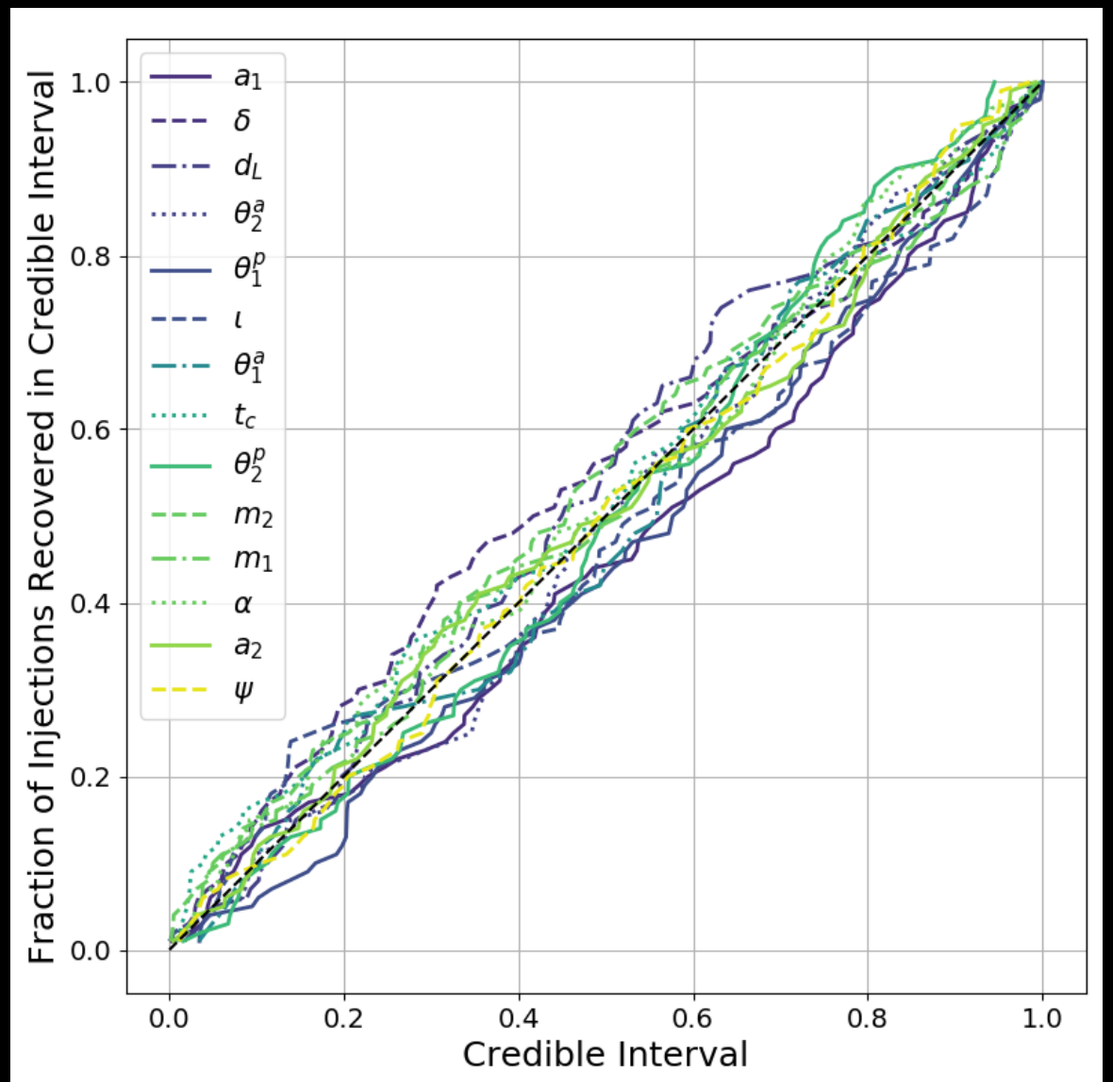
PERCENTILE - PERCENTILE TEST

- Add signals to realizations of Gaussian noise
- Run PE on each signal, produce marginal posteriors for each parameter
- Test: for each parameter, do X% of the injected values fall within the X% credible interval?

emcee_pt



C. Biwer, **C. Capano**, et al., arXiv:1807.10312

Probability of obtaining this graph if emcee_pt provides unbiased parameter estimates: **70% (pass)**

EMCEE PT SUGGESTED SETTINGS

- Have found the following to work ok for getting posterior for GWs:
  - 1000 walkers
  - 4 temperatures
  - burn in test: nacl & max_posterior
  - model: marginalized_phase
- **CAUTION**:
  - Marginalized phase model will not work with waveforms with higher modes (i.e., IMRPhenomPv2: ok; IMRPhenomPHM: not ok). Need to use gaussian_noise model
  - These are not enough temperatures to get a good evidence estimate. (see Steven Reyes talk tomorrow)