

PPP Outline

Outline

- Title Slide
- Overview Slide with main sections
- Bayesian Paradigm
- Need for Bayesian Computation
- Bayesian Computational Methods
 - MCMC
 - Gibbs Sampling
 - * Users: BUGS/JAGS/Nimble
 - HMC
 - * Users: STAN/Greta
- Implementations:
 - BUGS
 - JAGS
 - Nimble
 - STAN
 - Greta
- Data Preparation comparison
 - Generic data prep for all
 - Nimble constants
- Model Specification
 - BUGS
 - JAGS
 - Nimble
 - STAN
- Greta's unique method
 - Data prep
 - Model running
 - Nodes graph
- Computational Time comparison
 - All models
 - STAN compile time
- Accuracy
 - TVD for Conjugate models with analytical posterior known
 - TVD results
 - Sim results for others

Total Slides:

Outline with slide count

- Title Slide - 1
- Overview Slide with main sections - 1
- Bayesian Paradigm - 2-3
- Need for Bayesian Computation - 2-3

- History of Computation - 1
 - MCMC - 1-2
 - Gibbs Sampling - 1-2
 - * Users: BUGS/JAGS/Nimble
 - HMC - 2-3
 - * Users: STAN/Greta
- Methods overview: - 1
 - BUGS - 1
 - JAGS - 1
 - Nimble - 1
 - STAN - 1
 - Greta - 1
- Data Preparation comparison - 1
 - Generic data prep for all - 1
 - Nimble constants - 1
- Model Specification
 - BUGS - 1
 - JAGS - 1
 - Nimble - 1
 - STAN - 1-2
- Greta's unique method
 - Data prep - 1
 - Model running - 1
 - Nodes graph - 1
- Computational Time comparison - 2-3
 - All models
 - STAN compile time
- Accuracy
 - TVD for Conjugate models with analytical posterior known - 1-2
 - TVD results - 1-2
 - Sim results for others - 1-2

Total Slides: