

To Do List

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- Read intros to listed texts (See Thesis section 2.1 Why Predictive Inference?) and summarize answers to that question in WhyPredictiveInference.Rnw
 - Nate Silver’s book (1st chapter or intro)
 - ~~Hoff’s book~~
 - Geyser’s book (1st chapter or intro)
 - Aitchison and Dunsmore (1st chapter or intro)
 - ~~Dean’s paper~~
 - maybe some googling
- ~~Create example comparing predictive inference result with plug in parameter result~~
 - ~~Dean’s suggestion: 1-sample binomial with small sample size. E.g. 3 successes, 7 failures ($\Pr(\text{success}) < 0.5$). Difference will be more pronounced with smaller sample sizes.~~
- (1) Combine `rpredNormIG()`, `rpredNormIG2()`, and `rpredNormIGk()` into one function
- Read up on convergence in probability and justification for MCMC (Hoff, Casella & Berger)
- Compare variance computations: `var()` function on MCMC sample vs direct computation from theory ($EX^2 - (EX)^2$)
- (2) General guidance: Read up on “How to write a thesis in Latex,” for example [https://www.overleaf.com/learn/latex/How_to_Write_a_Thesis_in_LaTeX_\(Part_1\)%3A_Basic_Structure](https://www.overleaf.com/learn/latex/How_to_Write_a_Thesis_in_LaTeX_(Part_1)%3A_Basic_Structure)
- (3) Figure formatting: save figures as .png files and insert? Or what? Need better control over how figure appears in resulting pdf.
- (0) Incorporate any guidance from Dean.
- Write up explanation of how each function works