Ideas for Papers for Quasi project

1. Where does mixed model and GEE fail?
   1. Convergence
   2. Estimation
   3. Inference
2. Under missingness models, describe the expected percentage of failed datasets you will obtain for mixed model and demonstrate math is correct via simulation
3. Description of quasilexicographic method
   1. Derive weighted betas, sigmas
   2. Distribution of weighted betas and sigmas
   3. Comparison to mixed model and GEE
4. Tutorial paper applied to ECHO consortium-thoughts on cohort design

Dissertation package could be 1, 2 and 4—call the pocket 8 ball dissertation