

Research Meeting & Communication Plan¹:

- A. Items As of Last Meeting:
 - 1. Try non-linear model we discussed
- B. Meeting Agenda
 - 1. Nonlinear-model implementation
 - 2. County model
 - 3. Judge model

¹ Please save the document as RMC_Template_lastname_firstname_MM_DD_YY.pdf

C. Executive Summary

a. Key Findings/Results

1. I implemented the nonlinear model as a constrained optimization problem. I added the constraints that all the utilizations be greater than some lower bound and less than one.
2. The estimates were very sensitive to whatever lower bound I picked. The optimizer usually set most of the utilizations equal to the lower bound.
3. If we assume that the utilization is at least 70%, then the model estimates that judges process roughly 10 pleas per day and take about 3.5 days to process trials.

b. Key Insights

1. Interpretation wise, I think this model is great, however, I don't know how feasible it will be to use since it is so sensitive to the lower bounds we use, and I don't know if we can choose a lower bound in a systematic or justified way.

D. Specific Questions to Discuss During the Meeting

1. Thoughts on model?

E. Challenges Slowing Our Progress

1. Service rate estimation.

F. Your Proposed Action Items Until Next Week

1. Decide what to do about service rate estimation
2. tackle the estimation of other parameters: hurdle model for probability of conviction and estimated sentence length, defendant cost of trial.

G. Miscellaneous

a. Attached Documents²

- | | | |
|-------------------------|---|---|
| 1. Slide Deck: | Y | N |
| 2. Research Report: | Y | N |
| 3. Updated Paper Draft: | Y | N |

² For the documents you provided, please provide a 1-2 sentence description of the (new) substance.

b. Other Issues/Items³

1. N/A-

³ Please state anything we didn't cover above that you think we should discuss