SHRINKAGE AND TYPES OF POOLING

1. Complete pooling Only one estimate for all players (underfitting)

3. No pooling Players are all independent, no information is shared (overfitting)

5. Partial pooling Players' estimates help inform each other. This means using an adaptive regularizing prior, as in the previous example.

BLOCKED EXPERIMENTAL DESIGNS

- Often in experiments there are natural blocks that exist non-intentionally.
- Even though these blocks were not created intentionally, they often still group experimental units that are more similar within blocks than between blocks due to unknown conditions.
- Analyzing results within each natural block makes it possible to separate treatment variability from variability due to the blocking factor that occurs unintentionally but systematically.





