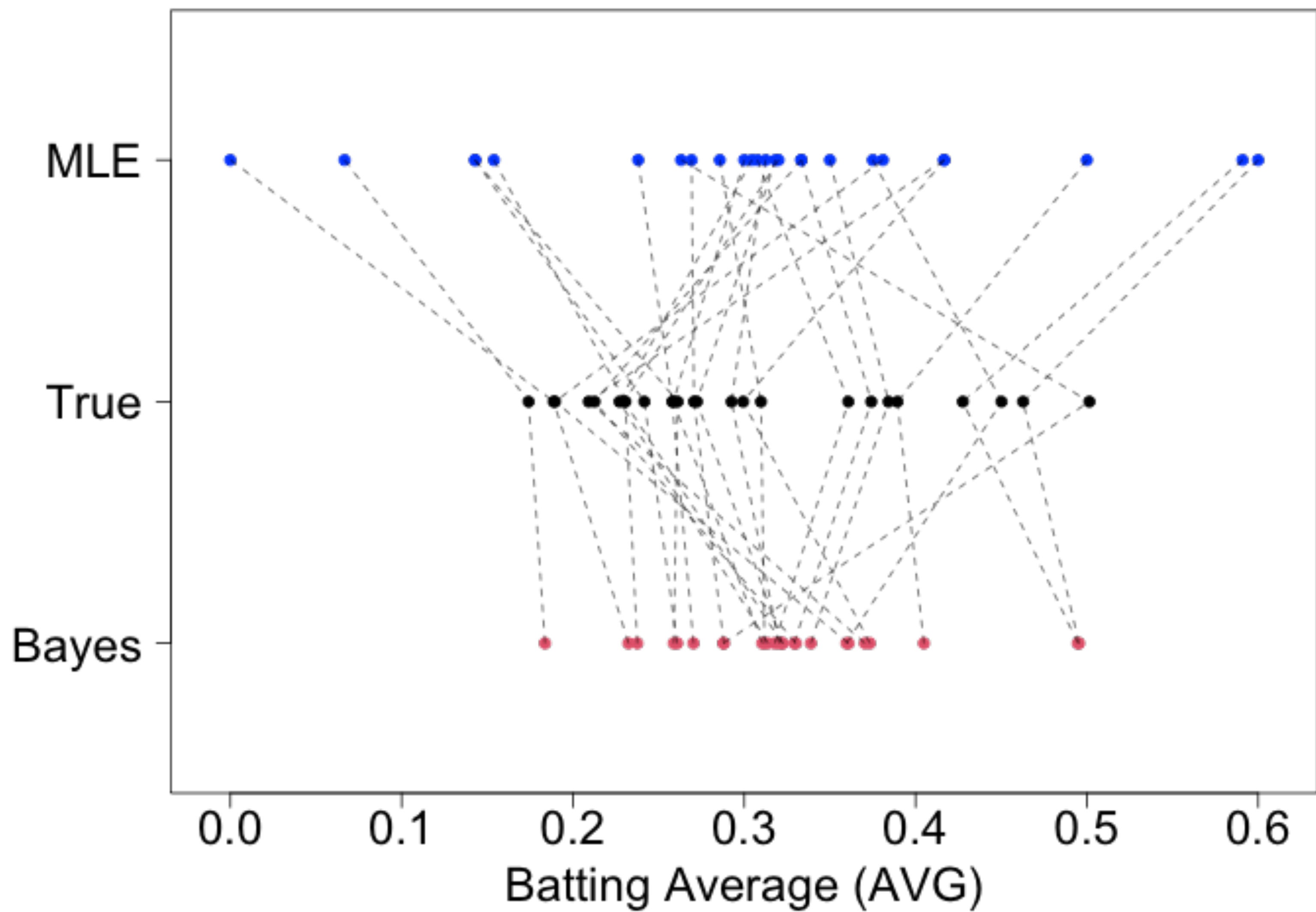






BATTING AVERAGES







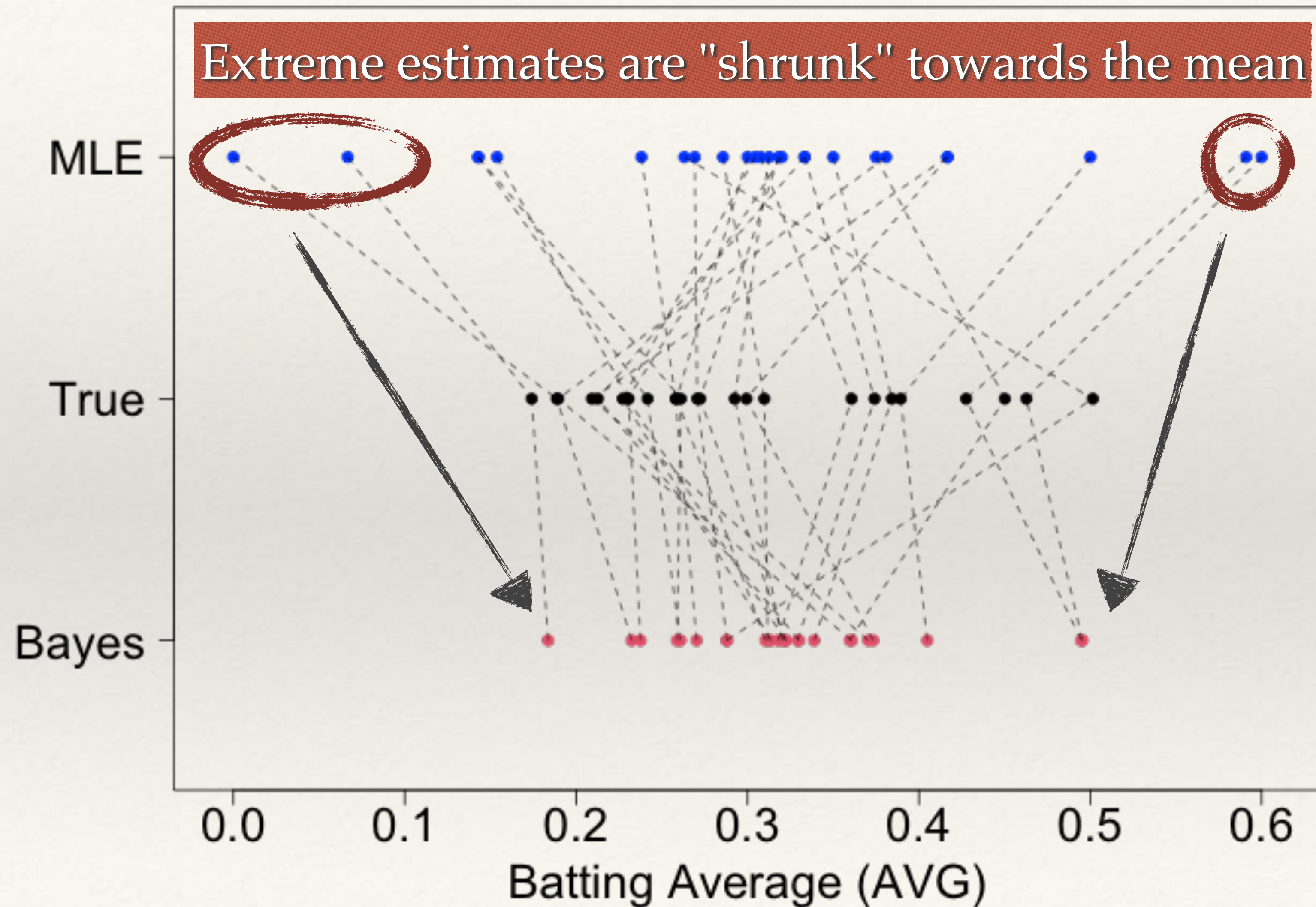
Extreme estimates are "shrunk" towards the mean







# BATTING AVERAGES



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# SHRINKAGE AND TYPES OF POOLING

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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.