Human Subjects Silicon Subjects Mixed Subjects

The mixed subjects design decreases costs of precise estimates and maintains validity

Estimate $\hat{\theta}_S$ with classic Estimate $\hat{\theta}_{H}$ with classic Estimate $\hat{\theta}_M$ by correcting a possibly inaccurate estimate inference, e.g. by using $\hat{\theta}_S$ from LLM predictions with a rectifier $\Delta_{\hat{\lambda}}$ from data inference, e.g. by using OLS to regress outcome OLS to regress observed on human subjects. Estimate a tuning parameter $\hat{\lambda}$ for outcome Y on X. f(X) predicted by LLM increased statistical precision and the predictive accuracy

f on X. measure $\tilde{\rho}$ for conducting power analyses. valid estimate valid estimate valid estimate

precise estimate

inexpensive data

precise estimate

inexpensive data

precise estimate

inexpensive data