Human Subjects Silicon Subjects Mixed Subjects

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

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

measure $\widetilde{\rho}$ for conducting power analyses. valid estimate valid estimate valid estimate

precise estimate

inexpensive data

precise estimate

inexpensive data

precise estimate

inexpensive data