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 $\Delta_{\hat{s}}$ from data

OLS to regress observed OLS to regress outcome 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 $\tilde{\rho}$ for conducting power analyses.

valid estimate valid estimate valid estimate precise estimate precise estimate precise estimate

inexpensive data

inexpensive data

inexpensive data