

Statistical processing

descriptor fields · group tensors (from Fig. 3)



optional harmonization — ComBat / ComBat-GAM

Frequentist

vertex-wise inference

permutation FWE (max-statistic)
FDR · TFCE · Welch / Mann-Whitney
partial correlation (correct d.f.)



effect size & comparison

Cohen's d maps · analytic DeLong AUC
BCa bootstrap CIs · ICC · non-inferiority



Bayesian (PyMC)

regression & group models

Horseshoe (sparse) regression
BEST group comparison
hierarchical linear model



normative & spatial models

Gaussian-process normative (z-scores)
spatial · connectome · cluster-confirmation

samplers: PyMC · nutpie · NumPyro · BlackJAX



outputs → significance maps · posteriors · normative z-scores → viz