Our Personalised approach

Preprocess data Fit GP models Fit GP models independently to each independently to each probe-set of case-control probe-set of case-control pair #1 pair #N Time-window Time-course Time-course Time-window analysis analysis analysis analysis Identify differentially ex-Identify differentially expressed probe-sets using pressed probe-sets using BF-score for case-control BF-score for case-control pair #N, map probe-sets to pair #1, map probe-sets to genes, and compute genes, and compute overlaps with pathways overlaps with pathways Use the KL-score to Use the KL-score to identify differentially identify differentially Combine using adjusted geometric expressed probe-sets, expressed probe-sets, mean and compute statistical map probe-sets to map probe-sets to significance using permutation test genes, and compute genes, and compute pathway overlaps in a pathway overlaps in a given time window given time window Report significant pathways after FDR correction

Combined method

