

**Fig S3.** Estimated transformation for each subject and pair of ROIs. Each row shows the transformations between the MV-patterns of early visual cortex-EVC and the patterns of the other ROIs (inferior temporal cortex-ITC, fusiform face area-FFA and parahippocampal place area-PPA) for one subject. The columns refer to the specific pairs of ROIs (from left to right: EVC->ITC, EVC->FFA, EVC->PPA).