fMRI acquisition and processing

Imaging was conducted on a Siemens Magnetom 7 Tesla scanner with a 32-channel head coil. Functional scans were acquired with 54 slices per volume (TR = 1.25 s; TE = 20 ms; flip angle = 35°; FOV = 220 x 220 mm; voxel size 2.5 mm3) using an iPAT parallel acquisition sequence (generalized auto-calibrating partially parallel acquisition [GRAPPA] acceleration factor = 3). Between functional runs within the first session only, a whole-head anatomical scan was acquired (TR = 6s; TE = 2.69 ms; FOV = 240 x 240 mm; voxel size = 0.75 mm3; 208 slices; GRAPPA acceleration factor = 3).