



**S18 Fig. Reconstruction quality of imagined artificial shapes for individual subjects.**

Evaluations on individual subjects' results are separately shown (VC activity; DNN 1–8; without the DGN;  $N = 15$ ; chance level, 50%; cf., Fig 8D). Evaluations of reconstructions using pixel-wise spatial correlation showed 49.5%, 52.4%, and 53.8% for Subject 1–3, respectively. Evaluations of reconstructions using human judgment showed 85.6%, 84.4%, and 79.5% for Subject 1–3, respectively.