

**S2: non-significant correlations**

Lateralization indices of	Spearman rho correlation with acquired hit rates	
	$\rho$	p-value
Dots in space easy frontal mask	.168	.549
Dots in space easy parietal mask	.155	.581
Dots in space hard frontal mask	-.350	.200
Dots in space hard parietal mask	.292	.291
Mental Rotation frontal mask	-.208	.458
Mental Rotation parietal mask	-.272	.326
LT version A frontal mask	-.099	.726
LT version A parietal mask	-.299	.279
LT easy 1 frontal mask	.022	.927
LT easy 1 parietal mask	.371	.118
LT hard 1 frontal mask	.069	.773
LT hard 1 parietal mask	.345	.148
LT easy 2 frontal mask	.151	.525
LT easy 2 parietal mask	.124	.635
LT hard 2 frontal mask	-.431	.058
LT hard 2 parietal mask	.321	.181