Results

Repeated Measures ANOVA

Within Subjects Effects

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_p	ω^2
ROI	Greenhouse-Geisser	0.029	5.954	0.005	4.997	< .001	0.147	0.060
Residual	Greenhouse-Geisser	0.166	172.665	9.638e -4				
Condition	Greenhouse-Geisser	2.307	1.000	2.307	373.314	< .001	0.928	0.860
Residual	Greenhouse-Geisser	0.179	29.000	0.006				
ROI ∗ Condition	Greenhouse-Geisser	0.036	5.938	0.006	6.492	< .001	0.183	0.079
Residual	Greenhouse-Geisser	0.159	172.195	9.258e -4				

Note. Type III Sum of Squares

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p	ω^2
Residual	0.183	29	0.006				

Note. Type III Sum of Squares

Post Hoc Tests

Post Hoc Comparisons - ROI ∗ Condition

		Mean Difference	95% CI of Mean Difference Lower	Upper	SE	t	Cohen's d	p bonf
ACC,Chance	ACC,Estimate	-0.141	-0.175	-0.106	0.009	-15.124	-2.761	< .001
	ATL,Chance	0.002	-0.023	0.027	0.007	0.306	0.056	1.000
	ATL,Estimate	-0.127	-0.162	-0.092	0.009	-13.588	-2.481	< .001
	IFG,Chance	-1.965e -6	-0.025	0.025	0.007	-2.872e -4	-5.244e -5	1.000
	IFG,Estimate	-0.139	-0.174	-0.105	0.009	-14.895	-2.720	< .001
	Ins,Chance	-0.007	-0.032	0.018	0.007	-1.052	-0.192	1.000
	Ins,Estimate	-0.127	-0.162	-0.092	0.009	-13.550	-2.474	< .001
	LTL,Chance	-0.006	-0.031	0.018	0.007	-0.918	-0.168	1.000
	LTL,Estimate	-0.157	-0.191	-0.122	0.009	-16.737	-3.056	< .001
	PCC,Chance	4.057e -4	-0.024	0.025	0.007	0.059	0.011	1.000
	PCC,Estimate	-0.132	-0.167	-0.097	0.009	-14.134	-2.581	< .001
	Prec,Chance	-0.002	-0.027	0.023	0.007	-0.287	-0.052	1.000
	Prec,Estimate	-0.147	-0.182	-0.112	0.009	-15.740	-2.874	< .001
	V1,Chance	-0.008	-0.033	0.017	0.007	-1.186	-0.217	1.000
	V1,Estimate	-0.101	-0.135	-0.066	0.009	-10.745	-1.962	< .001
	aPFC,Chance	5.059e -4	-0.024	0.025	0.007	0.074	0.014	1.000
	aPFC,Estimate	-0.127	-0.161	-0.092	0.009	-13.540	-2.472	< .001
ACC,Estimate	ATL,Chance	0.143	0.108	0.178	0.009	15.260	2.786	< .001
	ATL,Estimate	0.014	-0.011	0.038	0.007	1.980	0.361	1.000
	IFG,Chance	0.141	0.106	0.175	0.009	15.036	2.745	< .001

Post Hoc Comparisons - ROI ✴ Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p bonf
			Lower	Upper				
	IFG,Estimate	0.001	-0.023	0.026	0.007	0.193	0.035	1.000
	Ins,Chance	0.133	0.099	0.168	0.009	14.266	2.605	< .001
	Ins,Estimate	0.014	-0.011	0.039	0.007	2.032	0.371	1.000
	LTL,Chance	0.134	0.100	0.169	0.009	14.365	2.623	< .001
	LTL,Estimate	-0.016	-0.041	0.009	0.007	-2.325	-0.425	1.000
	PCC,Chance	0.141	0.106	0.176	0.009	15.080	2.753	< .001
	PCC,Estimate	0.008	-0.016	0.033	0.007	1.233	0.225	1.000
	Prec,Chance	0.139	0.104	0.173	0.009	14.826	2.707	< .001
	Prec,Estimate	-0.007	-0.031	0.018	0.007	-0.962	-0.176	1.000
	V1,Chance	0.133	0.098	0.167	0.009	14.168	2.587	< .001
	V1,Estimate	0.040	0.015	0.065	0.007	5.866	1.071	< .001
	aPFC,Chance	0.141	0.106	0.176	0.009	15.090	2.755	< .001
	aPFC,Estimate	0.014	-0.011	0.039	0.007	2.045	0.373	1.000
ATL,Chance	ATL,Estimate	-0.129	-0.164	-0.095	0.009	-13.892	-2.536	< .001
	IFG,Chance	-0.002	-0.027	0.023	0.007	-0.306	-0.056	1.000
	IFG,Estimate	-0.141	-0.176	-0.107	0.009	-15.119	-2.760	< .001
	Ins,Chance	-0.009	-0.034	0.015	0.007	-1.358	-0.248	1.000
	Ins,Estimate	-0.129	-0.164	-0.094	0.009	-13.774	-2.515	< .001
	LTL,Chance	-0.008	-0.033	0.016	0.007	-1.224	-0.223	1.000
	LTL,Estimate	-0.159	-0.193	-0.124	0.009	-16.961	-3.097	< .001
	PCC,Chance	-0.002	-0.026	0.023	0.007	-0.246	-0.045	1.000
	PCC,Estimate	-0.134	-0.169	-0.099	0.009	-14.358	-2.621	< .001
	Prec,Chance	-0.004	-0.029	0.021	0.007	-0.593	-0.108	1.000
	Prec,Estimate	-0.149	-0.184	-0.115	0.009	-15.964	-2.915	< .001
	V1,Chance	-0.010	-0.035	0.015	0.007	-1.492	-0.272	1.000
	V1,Estimate	-0.103	-0.137	-0.068	0.009	-10.969	-2.003	< .001
	aPFC,Chance	-0.002	-0.026	0.023	0.007	-0.232	-0.042	1.000
	aPFC,Estimate	-0.129	-0.164	-0.094	0.009	-13.764	-2.513	< .001
ATL,Estimate	IFG,Chance	0.127	0.092	0.162	0.009	13.588	2.481	< .001
	IFG,Estimate	-0.012	-0.037	0.013	0.007	-1.787	-0.326	1.000
	Ins,Chance	0.120	0.085	0.155	0.009	12.818	2.340	< .001
	Ins,Estimate	3.567e -4	-0.024	0.025	0.007	0.052	0.010	1.000
	LTL,Chance	0.121	0.086	0.156	0.009	12.917	2.358	< .001
	LTL,Estimate	-0.029	-0.054	-0.005	0.007	-4.305	-0.786	0.003
	PCC,Chance	0.128	0.093	0.162	0.009	13.632	2.489	< .001
	PCC,Estimate	-0.005	-0.030	0.020	0.007	-0.747	-0.136	1.000
	Prec,Chance	0.125	0.090	0.160	0.009	13.378	2.442	< .001
	Prec,Estimate	-0.020	-0.045	0.005	0.007	-2.942	-0.537	0.524
	V1,Chance	0.119	0.084	0.154	0.009	12.720	2.322	< .001
	V1,Estimate	0.027	0.002	0.051	0.007	3.887	0.710	0.018
	aPFC,Chance	0.128	0.093	0.162	0.009	13.642	2.491	< .001
	aPFC,Estimate	4.468e -4	-0.024	0.025	0.007	0.065	0.012	1.000
IFG,Chance	IFG,Estimate	-0.139	-0.174	-0.105	0.009	-14.982	-2.735	< .001
	Ins,Chance	-0.007	-0.032	0.018	0.007	-1.052	-0.192	1.000
	Ins,Estimate	-0.127	-0.162	-0.092	0.009	-13.550	-2.474	< .001
	LTL,Chance	-0.006	-0.031	0.018	0.007	-0.918	-0.168	1.000

Post Hoc Comparisons - ROI ✻ Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p bonf
			Lower	Upper				
	LTL,Estimate	-0.157	-0.191	-0.122	0.009	-16.737	-3.056	< .001
	PCC,Chance	4.077e -4	-0.024	0.025	0.007	0.060	0.011	1.000
	PCC,Estimate	-0.132	-0.167	-0.097	0.009	-14.134	-2.581	< .001
	Prec,Chance	-0.002	-0.027	0.023	0.007	-0.287	-0.052	1.000
	Prec,Estimate	-0.147	-0.182	-0.112	0.009	-15.740	-2.874	< .001
	V1,Chance	-0.008	-0.033	0.017	0.007	-1.186	-0.217	1.000
	V1,Estimate	-0.101	-0.135	-0.066	0.009	-10.745	-1.962	< .001
	aPFC,Chance	5.079e -4	-0.024	0.025	0.007	0.074	0.014	1.000
	aPFC,Estimate	-0.127	-0.161	-0.092	0.009	-13.540	-2.472	< .001
IFG,Estimate	Ins,Chance	0.132	0.097	0.167	0.009	14.126	2.579	< .001
	Ins,Estimate	0.013	-0.012	0.037	0.007	1.839	0.336	1.000
	LTL,Chance	0.133	0.098	0.168	0.009	14.224	2.597	< .001
	LTL,Estimate	-0.017	-0.042	0.008	0.007	-2.518	-0.460	1.000
	PCC,Chance	0.140	0.105	0.175	0.009	14.939	2.727	< .001
	PCC,Estimate	0.007	-0.018	0.032	0.007	1.040	0.190	1.000
	Prec,Chance	0.137	0.103	0.172	0.009	14.685	2.681	< .001
	Prec,Estimate	-0.008	-0.033	0.017	0.007	-1.155	-0.211	1.000
	V1,Chance	0.131	0.096	0.166	0.009	14.028	2.561	< .001
	V1,Estimate	0.039	0.014	0.064	0.007	5.674	1.036	< .001
	aPFC,Chance	0.140	0.105	0.175	0.009	14.950	2.729	< .001
	aPFC,Estimate	0.013	-0.012	0.037	0.007	1.852	0.338	1.000
Ins,Chance	Ins,Estimate	-0.120	-0.154	-0.085	0.009	-12.854	-2.347	< .001
	LTL,Chance	9.177e -4	-0.024	0.026	0.007	0.134	0.024	1.000
	LTL,Estimate	-0.149	-0.184	-0.115	0.009	-15.967	-2.915	< .001
	PCC,Chance	0.008	-0.017	0.032	0.007	1.112	0.203	1.000
	PCC,Estimate	-0.125	-0.160	-0.090	0.009	-13.365	-2.440	< .001
	Prec,Chance	0.005	-0.020	0.030	0.007	0.765	0.140	1.000
	Prec,Estimate	-0.140	-0.175	-0.105	0.009	-14.970	-2.733	< .001
	V1,Chance	-9.164e -4	-0.026	0.024	0.007	-0.134	-0.024	1.000
	V1,Estimate	-0.093	-0.128	-0.058	0.009	-9.975	-1.821	< .001
	aPFC,Chance	0.008	-0.017	0.032	0.007	1.126	0.206	1.000
	aPFC,Estimate	-0.119	-0.154	-0.085	0.009	-12.771	-2.332	< .001
Ins,Estimate	LTL,Chance	0.120	0.086	0.155	0.009	12.878	2.351	< .001
	LTL,Estimate	-0.030	-0.055	-0.005	0.007	-4.357	-0.795	0.002
	PCC,Chance	0.127	0.092	0.162	0.009	13.594	2.482	< .001
	PCC,Estimate	-0.005	-0.030	0.019	0.007	-0.799	-0.146	1.000
	Prec,Chance	0.125	0.090	0.160	0.009	13.340	2.436	< .001
	Prec,Estimate	-0.020	-0.045	0.004	0.007	-2.994	-0.547	0.444
	V1,Chance	0.119	0.084	0.153	0.009	12.682	2.315	< .001
	V1,Estimate	0.026	0.001	0.051	0.007	3.835	0.700	0.022
	aPFC,Chance	0.127	0.092	0.162	0.009	13.604	2.484	< .001
	aPFC,Estimate	9.007e -5	-0.025	0.025	0.007	0.013	0.002	1.000
LTL,Chance	LTL,Estimate	-0.150	-0.185	-0.116	0.009	-16.159	-2.950	< .001
	PCC,Chance	0.007	-0.018	0.031	0.007	0.978	0.178	1.000
	PCC,Estimate	-0.126	-0.161	-0.091	0.009	-13.463	-2.458	< .001
	Prec,Chance	0.004	-0.020	0.029	0.007	0.631	0.115	1.000

Post Hoc Comparisons - ROI ✶ Condition

		Mean Difference	95% CI of Mean Difference		SE	t	Cohen's d	p bonf
			Lower	Upper				
	Prec,Estimate	-0.141	-0.176	-0.106	0.009	-15.068	-2.751	< .001
	V1,Chance	-0.002	-0.027	0.023	0.007	-0.268	-0.049	1.000
	V1,Estimate	-0.094	-0.129	-0.059	0.009	-10.073	-1.839	< .001
	aPFC,Chance	0.007	-0.018	0.032	0.007	0.992	0.181	1.000
	aPFC,Estimate	-0.120	-0.155	-0.086	0.009	-12.869	-2.350	< .001
LTL,Estimate	PCC,Chance	0.157	0.122	0.192	0.009	16.781	3.064	< .001
	PCC,Estimate	0.024	-4.231e -4	0.049	0.007	3.558	0.650	0.063
	Prec,Chance	0.155	0.120	0.189	0.009	16.527	3.017	< .001
	Prec,Estimate	0.009	-0.015	0.034	0.007	1.363	0.249	1.000
	V1,Chance	0.148	0.114	0.183	0.009	15.869	2.897	< .001
	V1,Estimate	0.056	0.031	0.081	0.007	8.192	1.496	< .001
	aPFC,Chance	0.157	0.122	0.192	0.009	16.791	3.066	< .001
	aPFC,Estimate	0.030	0.005	0.055	0.007	4.370	0.798	0.002
PCC,Chance	PCC,Estimate	-0.133	-0.167	-0.098	0.009	-14.260	-2.604	< .001
	Prec,Chance	-0.002	-0.027	0.022	0.007	-0.347	-0.063	1.000
	Prec,Estimate	-0.148	-0.182	-0.113	0.009	-15.784	-2.882	< .001
	V1,Chance	-0.009	-0.033	0.016	0.007	-1.246	-0.227	1.000
	V1,Estimate	-0.101	-0.136	-0.066	0.009	-10.789	-1.970	< .001
	aPFC,Chance	1.002e -4	-0.025	0.025	0.007	0.015	0.003	1.000
	aPFC,Estimate	-0.127	-0.162	-0.092	0.009	-13.584	-2.480	< .001
PCC,Estimate	Prec,Chance	0.130	0.095	0.165	0.009	13.924	2.542	< .001
	Prec,Estimate	-0.015	-0.040	0.010	0.007	-2.195	-0.401	1.000
	V1,Chance	0.124	0.089	0.159	0.009	13.267	2.422	< .001
	V1,Estimate	0.032	0.007	0.056	0.007	4.633	0.846	< .001
	aPFC,Chance	0.133	0.098	0.168	0.009	14.188	2.590	< .001
	aPFC,Estimate	0.006	-0.019	0.030	0.007	0.812	0.148	1.000
Prec,Chance	Prec,Estimate	-0.145	-0.180	-0.111	0.009	-15.620	-2.852	< .001
	V1,Chance	-0.006	-0.031	0.019	0.007	-0.899	-0.164	1.000
	V1,Estimate	-0.099	-0.133	-0.064	0.009	-10.535	-1.923	< .001
	aPFC,Chance	0.002	-0.022	0.027	0.007	0.361	0.066	1.000
	aPFC,Estimate	-0.125	-0.159	-0.090	0.009	-13.330	-2.434	< .001
Prec,Estimate	V1,Chance	0.139	0.104	0.174	0.009	14.872	2.715	< .001
	V1,Estimate	0.047	0.022	0.071	0.007	6.829	1.247	< .001
	aPFC,Chance	0.148	0.113	0.183	0.009	15.794	2.884	< .001
	aPFC,Estimate	0.021	-0.004	0.045	0.007	3.007	0.549	0.425
V1,Chance	V1,Estimate	-0.092	-0.127	-0.058	0.009	-9.935	-1.814	< .001
	aPFC,Chance	0.009	-0.016	0.033	0.007	1.260	0.230	1.000
	aPFC,Estimate	-0.119	-0.153	-0.084	0.009	-12.673	-2.314	< .001
V1,Estimate	aPFC,Chance	0.101	0.066	0.136	0.009	10.799	1.972	< .001
	aPFC,Estimate	-0.026	-0.051	-0.001	0.007	-3.821	-0.698	0.023
aPFC,Chance	aPFC,Estimate	-0.127	-0.162	-0.092	0.009	-13.673	-2.496	< .001

Note. Cohen's d does not correct for multiple comparisons.

Note. Bonferroni adjusted confidence intervals.

Descriptives

Descriptives

ROI	Condition	Mean	SD	N
LTL	Estimate	0.441	0.057	30
	Chance	0.290	0.021	30
IFG	Estimate	0.423	0.044	30
	Chance	0.284	0.019	30
Prec	Estimate	0.431	0.043	30
	Chance	0.286	0.019	30
ATL	Estimate	0.411	0.049	30
	Chance	0.282	0.019	30
aPFC	Estimate	0.411	0.060	30
	Chance	0.284	0.019	30
Ins	Estimate	0.411	0.038	30
	Chance	0.291	0.024	30
ACC	Estimate	0.425	0.054	30
	Chance	0.284	0.020	30
PCC	Estimate	0.416	0.034	30
	Chance	0.284	0.024	30
V1	Estimate	0.385	0.038	30
	Chance	0.292	0.017	30

Descriptives Plot