

Corcoran et al. (2025): Supplementary Information

This document contains summary tables for all generalised additive mixed-effects models (GAMMs) reported in the Results section of Corcoran, Le Coz, Hohwy, & Andrillon (2025), ‘When your heart isn’t in it anymore: Cardiac correlates of task disengagement’. The original model formula is reproduced above each corresponding table to facilitate cross-referencing with the underlying analysis code. Note, some terms included in the tables have been mildly edited for enhanced readability.

Tables rendered in R Markdown using the `knitr` and `flextable` packages.

Prevalence of disengaged states and impact on behavioural performance

Table S1. Effect of time-on-task on attentional state (Melbourne dataset).

```
## state.n ~ stim_type + probe_num.s + s(subj_id, bs = "re")
```

Component	Term	beta	s.e.	z-stat	p-value
A. parametric coefficients	(Intercept):MW	-0.177	0.206	-0.857	0.3914
	stim_type.Face:MW	-0.135	0.063	-2.144	0.0320 *
	probe_num:MW	0.460	0.064	7.155	0.0000 ***
	(Intercept):MB	-1.778	0.375	-4.736	0.0000 ***
	stim_type.Face:MB	-0.044	0.092	-0.486	0.6272
	probe_num:MB	0.351	0.093	3.787	0.0002 ***
Component	Term	edf	Ref. df	Chi-sq	p-value
B. smooth terms	s(subj_id):MW	20.80	23.00	817.10	0.0000 ***
	s(subj_id):MB	19.96	23.00	547.72	0.0000 ***

Signif. codes: 0 <= ‘***’ < 0.001 < ‘**’ < 0.01 < ‘*’ < 0.05

Adjusted R-squared: NA, Deviance explained 0.187

-REML : 564.632, Scale est: 1.000, N: 1440

Table S2. Effect of time-on-task on attentional state (Paris dataset).

```
## state.n ~ stim_type + probe_num.s + s(subj_id, bs = "re")
```

Component	Term	beta	s.e.	z-stat	p-value
	(Intercept):MW	-0.557	0.150	-3.722	0.0002 ***
	stim_type.Face:MW	0.008	0.051	0.149	0.8817

A. parametric

coefficients

Component	Term	beta	s.e.	z-stat	p-value
	probe_num:MW	0.323	0.051	6.334	0.0000 ***
	(Intercept):MB	-1.490	0.223	-6.675	0.0000 ***
	stim_type.Face:MB	0.041	0.066	0.626	0.5315
	probe_num:MB	0.150	0.066	2.265	0.0235 *
Component	Term	edf	Ref. df	Chi-sq	p-value
B. smooth terms	s(subj_id):MW	31.58	36.00	611.63	0.0000 ***
	s(subj_id):MB	31.38	36.00	505.51	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: NA, Deviance explained 0.136

-REML : 852.848, Scale est: 1.000, N: 2216

Table S3. Effect of vigilance level on attentional state (Melbourne dataset).

```
## state.n ~ stim_type + vigil.s + s(subj_id, probe_num, bs = "fs",
##      m = 1)
```

Component	Term	beta	s.e.	z-stat	p-value
A. parametric coefficients	(Intercept):MW	-0.200	0.235	-0.852	0.3944
	stim_type.Face:MW	-0.163	0.078	-2.107	0.0351 *
	vigil:MW	-0.869	0.114	-7.640	0.0000 ***
	(Intercept):MB	-1.919	0.360	-5.323	0.0000 ***
	stim_type.Face:MB	-0.047	0.100	-0.468	0.6401
	vigil:MB	-1.282	0.167	-7.660	0.0000 ***
Component	Term	edf	Ref. df	Chi-sq	p-value
B. smooth terms	s(subj_id):MW	77.26	215.00	281.18	0.0000 ***
	s(subj_id):MB	34.85	215.00	136.52	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: NA, Deviance explained 0.291

-REML : 500.649, Scale est: 1.000, N: 1439

Table S4. Effect of vigilance level on attentional state (Paris dataset).

```
## state.n ~ stim_type + vigil.s + s(subj_id, probe_num, bs = "fs",
##      m = 1)
```

Component	Term	beta	s.e.	z-stat	p-value
A. parametric coefficients	(Intercept):MW	-0.654	0.171	-3.824	0.0001 ***
	stim_type.Face:MW	-0.015	0.057	-0.263	0.7929
	vigil:MW	-0.831	0.076	-10.947	0.0000 ***
	(Intercept):MB	-1.893	0.205	-9.216	0.0000 ***
	stim_type.Face:MB	-0.026	0.079	-0.332	0.7401
	vigil:MB	-1.356	0.110	-12.277	0.0000 ***
Component	Term	edf	Ref. df	Chi-sq	p-value
B. smooth terms	s(subj_id):MW	74.29	332.00	299.37	0.0000 ***
	s(subj_id):MB	77.69	332.00	252.22	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: NA, Deviance explained 0.249

-REML : 700.155, Scale est: 1.000, N: 2213

Table S5. Effect of pupil size on attentional state (Melbourne dataset).

```
## state.n ~ stim_type + zuPup + s(subj_id, probe_num, bs = "fs",
##     m = 1)
```

Component	Term	beta	s.e.	z-stat	p-value
A. parametric coefficients	(Intercept):MW	-0.229	0.225	-1.019	0.3081
	stim_type.Face:MW	-0.169	0.083	-2.039	0.0415 *
	zuPup:MW	-0.340	0.105	-3.237	0.0012 **
	(Intercept):MB	-1.967	0.413	-4.757	0.0000 ***
	stim_type.Face:MB	-0.044	0.114	-0.389	0.6972
	zuPup:MB	-0.542	0.143	-3.785	0.0002 ***
Component	Term	edf	Ref. df	Chi-sq	p-value
B. smooth terms	s(subj_id):MW	62.58	197.00	221.03	0.0000 ***
	s(subj_id):MB	29.93	197.00	138.44	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: NA, Deviance explained 0.253

-REML : 422.667, Scale est: 1.000, N: 1165

Table S6. Effect of pupil size on attentional state (Paris dataset).

```
## state.n ~ stim_type + zuPup + s(subj_id, probe_num, bs = "fs",
##     m = 1)
```

Component	Term	beta	s.e.	z-stat	p-value
A. parametric coefficients	(Intercept):MW	-0.617	0.158	-3.910	0.0001 ***
	stim_type.Face:MW	-0.074	0.069	-1.067	0.2860
	zuPup:MW	-0.245	0.078	-3.158	0.0016 **
	(Intercept):MB	-1.692	0.226	-7.481	0.0000 ***
	stim_type.Face:MB	-0.187	0.092	-2.027	0.0427 *
	zuPup:MB	-0.496	0.108	-4.605	0.0000 ***
Component	Term	edf	Ref. df	Chi-sq	p-value
B. smooth terms	s(subj_id):MW	86.21	332.00	302.04	0.0000 ***
	s(subj_id):MB	84.42	332.00	288.74	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: NA, Deviance explained 0.207

-REML : 768.285, Scale est: 1.000, N: 2141

Table S7. Effect of attentional state on sensitivity (Melbourne dataset).

Dp ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	1.489	0.043	34.401	0.0000 ***
	stim_type.Face	-0.052	0.020	-2.621	0.0089 **
	state.MW	0.032	0.031	1.014	0.3107
	state.ON	0.096	0.015	6.608	0.0000 ***
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	45.26	215.00	0.66	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.119, Deviance explained 0.149

-REML : 1559.153, Scale est: 0.479, N: 1440

Table S8. Effect of attentional state on sensitivity (Paris dataset).

Dp ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)

Component	Term	beta	s.e.	t-stat	p-value
	(Intercept)	1.230	0.045	27.564	0.0000 ***
	stim_type.Face	-0.058	0.017	-3.350	0.0008 ***
	state.MW	0.060	0.026	2.323	0.0203 *

A. parametric
coefficients

Component	Term	beta	s.e.	t-stat	p-value
	state.ON	0.134	0.012	11.164	0.0000 ***

Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	78.64	332.00	0.97	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.193, Deviance explained 0.223

-REML : 2553.263, Scale est: 0.546, N: 2216

Table S9. Effect of attentional state on response bias (Melbourne dataset).

Cn ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	0.553	0.022	25.189	0.0000 ***
	stim_type.Face	-0.008	0.009	-0.822	0.4112
	state.MW	0.034	0.015	2.244	0.0250 *
	state.ON	-0.018	0.007	-2.552	0.0108 *

Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	34.73	215.00	0.60	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.0929, Deviance explained 0.117

-REML : 523.004, Scale est: 0.114, N: 1440

Table S10. Effect of attentional state on response bias (Paris dataset).

Cn ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	0.523	0.022	24.234	0.0000 ***
	stim_type.Face	-0.024	0.008	-3.056	0.0023 **
	state.MW	0.030	0.012	2.433	0.0150 *
	state.ON	-0.010	0.006	-1.733	0.0832 .

Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	62.02	332.00	0.88	0.0000 ***

Component	Term	beta	s.e.	t-stat	p-value
Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05					

Adjusted R-squared: 0.125, Deviance explained 0.151

-REML : 913.628, Scale est: 0.125, N: 2216

Table S11. Effect of attentional state on response speed (Melbourne dataset).

muRS ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	1.868	0.039	47.669	0.0000 ***
	stim_type.Face	-0.119	0.007	-17.095	0.0000 ***
	state.MW	0.027	0.010	2.644	0.0083 **
	state.ON	0.009	0.005	1.872	0.0614 .
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	82.55	215.00	5.49	0.0000 ***
Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05					

Adjusted R-squared: 0.544, Deviance explained 0.571

-REML : -54.571, Scale est: 0.0467, N: 1414

Table S12. Effect of attentional state on response speed (Paris dataset).

muRS ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	2.254	0.025	88.568	0.0000 ***
	stim_type.Face	-0.168	0.007	-22.338	0.0000 ***
	state.MW	0.013	0.011	1.185	0.2362
	state.ON	0.009	0.005	1.957	0.0506 .
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	124.48	332.00	2.48	0.0000 ***
Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05					

Adjusted R-squared: 0.452, Deviance explained 0.490

-REML : 278.732, Scale est: 0.0683, N: 1849

Table S13. Effect of attentional state on response speed variability (Melbourne dataset).

```
## cvRS ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	-1.733	0.040	-42.911	0.0000 ***
	stim_type.Face	0.128	0.011	11.323	0.0000 ***
	state.MW	-0.026	0.018	-1.463	0.1438
	state.ON	-0.027	0.008	-3.277	0.0011 **
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	58.49	215.00	1.85	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.273, Deviance explained 0.318

-REML : -1833.499, Scale est: 0.143, N: 1414

Table S14. Effect of attentional state on response speed variability (Paris dataset).

```
## cvRS ~ stim_type + state + s(subj_id, probe_num, bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	-1.712	0.026	-65.571	0.0000 ***
	stim_type.Face	0.093	0.010	9.468	0.0000 ***
	state.MW	-0.023	0.015	-1.559	0.1192
	state.ON	-0.024	0.007	-3.584	0.0003 ***
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	86.87	332.00	1.12	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.205, Deviance explained 0.245

-REML : -2399.521, Scale est: 0.0787, N: 1849

Cardiac measures afford complementary information about arousal, attentional, and behavioural states

Table S15. Effect of cardiac parameters on attentional state.

```
## state.n ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id,
##   probe_num, bs = "fs", m = 1)
## ~site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##   bs = "fs", m = 1)
```

Component	Term	beta	s.e.	z-stat	p-value
A. parametric coefficients	(Intercept):MW	-0.422	0.133	-3.180	0.0015 **
	site.Paris:MW	-0.222	0.133	-1.673	0.0943 .
	stim_type.Face:MW	-0.038	0.046	-0.831	0.4057
	ln.cvIBI:MW	0.104	0.052	1.993	0.0463 *
	zuIBI:MW	0.307	0.073	4.216	0.0000 ***
	(Intercept):MB	-1.847	0.221	-8.356	0.0000 ***
	site.Paris:MB	0.061	0.220	0.277	0.7818
	stim_type.Face:MB	-0.008	0.063	-0.122	0.9026
	ln.cvIBI:MB	0.120	0.076	1.570	0.1165
	zuIBI:MB	0.699	0.099	7.075	0.0000 ***
Component	Term	edf	Ref. df	Chi-sq	p-value
B. smooth terms	s(subj_id,probe_num):MW	169.24	547.00	602.22	0.0000 ***
	s(subj_id,probe_num):MB	146.69	547.00	545.14	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: NA, Deviance explained 0.245

-REML : 1357.903, Scale est: 1.000, N: 3656

Table S16. Effect of cardiac parameters on vigilance level.

```
## vigil ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	2.496	0.401	6.219	0.0000 ***
	site.Paris	-0.050	0.401	-0.124	0.9011
	stim_type.Face	-0.055	0.064	-0.865	0.3870
	ln.cvIBI.s	-0.049	0.052	-0.945	0.3448
	zuIBI	-0.346	0.071	-4.892	0.0000 ***
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	420.02	583.00	5,938.38	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: NA, Deviance explained 0.642

-REML : 3231.934, Scale est: 1.000, N: 3896

Table S17. Effect of cardiac parameters on pupil size.

```
## zuPup ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	-0.089	0.019	-4.723	0.0000 ***
	site.Paris	-0.017	0.019	-0.910	0.3630
	stim_type.Face	-0.350	0.016	-21.263	0.0000 ***
	ln.cvIBI.s	0.068	0.012	5.639	0.0000 ***
	zuIBI	-0.210	0.018	-11.424	0.0000 ***
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	404.85	565.00	6.44	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.625, Deviance explained 0.668

-REML : 3397.080, Scale est: 0.304, N: 3550

Table S18. Effect of cardiac parameters on sensitivity.

```
## Dp ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	1.442	0.032	44.677	0.0000 ***
	site.Paris	-0.091	0.032	-2.832	0.0047 **
	stim_type.Face	-0.057	0.013	-4.378	0.0000 ***
	ln.cvIBI.s	-0.058	0.015	-3.842	0.0001 ***
	zuIBI	-0.049	0.020	-2.396	0.0166 *
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	146.27	583.00	0.95	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.153, Deviance explained 0.186

-REML : 4453.324, Scale est: 0.535, N: 3900

Table S19. Effect of cardiac parameters on response bias.

```
## Cn ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	0.549	0.015	36.631	0.0000 ***
	site.Paris	-0.013	0.015	-0.857	0.3917
	stim_type.Face	-0.016	0.006	-2.681	0.0074 **
	ln.cvIBI.s	0.020	0.007	2.816	0.0049 **
	zuIBI	-0.057	0.009	-6.030	0.0000 ***
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	118.26	583.00	0.82	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.121, Deviance explained 0.149

-REML : 1505.695, Scale est: 0.119, N: 3900

Table S20. Effect of cardiac parameters on hit rate.

```
## HR ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	1.971	0.032	62.046	0.0000 ***
	site.Paris	-0.094	0.032	-2.977	0.0029 **
	stim_type.Face	-0.069	0.013	-5.486	0.0000 ***
	ln.cvIBI.s	-0.002	0.014	-0.113	0.9099
	zuIBI	-0.156	0.019	-8.295	0.0000 ***
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	202.71	583.00	977.93	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.266, Deviance explained 0.260

-REML : -4690.433, Scale est: 1.000, N: 3900

Table S21. Effect of cardiac parameters on false alarm rate.

```
## FAR ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
	(Intercept)	-0.227	0.032	-7.087	0.0000 ***
	site.Paris	0.042	0.032	1.328	0.1842

A. parametric

coefficients

Component	Term	beta	s.e.	t-stat	p-value
	stim_type.Face	0.018	0.014	1.291	0.1965
	ln.cvIBI.s	0.067	0.017	4.051	0.0001 ***
	zuIBI	-0.034	0.022	-1.565	0.1175

Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	92.23	583.00	337.26	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.0914, Deviance explained 0.126

-REML : -750.600, Scale est: 1.000, N: 3900

Table S22. Effect of cardiac parameters on response speed.

```
## muRS ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
A. parametric coefficients	(Intercept)	2.072	0.022	95.876	0.0000 ***
	site.Paris	0.198	0.022	9.149	0.0000 ***
	stim_type.Face	-0.147	0.005	-29.162	0.0000 ***
	ln.cvIBI.s	0.014	0.006	2.457	0.0140 *
	zuIBI	-0.024	0.008	-3.114	0.0019 **

Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	230.56	583.00	3.57	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.626, Deviance explained 0.652

-REML : 234.652, Scale est: 0.0577, N: 3482

Table S23. Effect of cardiac parameters on response speed variability.

```
## cvRS ~ site + stim_type + ln.cvIBI.s + zuIBI + s(subj_id, probe_num,
##      bs = "fs", m = 1)
```

Component	Term	beta	s.e.	t-stat	p-value
	(Intercept)	-1.756	0.022	-79.741	0.0000 ***
	site.Paris	0.003	0.022	0.117	0.9066
	stim_type.Face	0.111	0.007	15.480	0.0000 ***
	ln.cvIBI.s	0.005	0.009	0.584	0.5592

A. parametric
coefficients

Component	Term	beta	s.e.	t-stat	p-value
	zuIBI	0.041	0.012	3.586	0.0003 ***
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	152.26	583.00	1.37	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.237, Deviance explained 0.275

-REML : -4562.045, Scale est: 0.141, N: 3482

Error-related cardiac deceleration does not account for differences across attentional states

Table S24. Analysis-of-variance of fitted GAMM.

```
## zuIBI ~ site + stim_type + index.o * resp_type * state + s(subj_id,
##   probe_num, bs = "fs", m = 1)

##
## Family: gaussian
## Link function: identity
##
## Formula:
## zuIBI ~ site + stim_type + index.o * resp_type * state + s(subj_id,
##   probe_num, bs = "fs", m = 1)
##
## Parametric Terms:
##           df      F p-value
## site           1  2.678   0.102
## stim_type       1  2.348   0.125
## index.o         6 37.087 < 2e-16
## resp_type       1 55.980 7.54e-14
## state           2 58.899 < 2e-16
## index.o:resp_type  6  0.759   0.602
## index.o:state     12  0.480   0.928
## resp_type:state    2  1.688   0.185
## index.o:resp_type:state 12  0.262   0.994
##
## Approximate significance of smooth terms:
##           edf Ref.df      F p-value
## s(subj_id,probe_num) 500.2  583.0 13.11 <2e-16
```

Table S25. Summary of fitted GAMM.

Component	Term	beta	s.e.	t-stat	p-value
	(Intercept)	0.204	0.019	10.521	0.0000 ***
	site.Paris	0.031	0.019	1.636	0.1018
	stim_type.Face	0.015	0.010	1.532	0.1255

Component	Term	beta	s.e.	t-stat	p-value
	idx.IBI-2-IBI-3	0.023	0.020	1.117	0.2641
	idx.IBI-1-IBI-2	0.018	0.020	0.880	0.3786
	idx.IBI_0-IBI-1	0.038	0.020	1.861	0.0628 .
	idx.IBI+1-IBI_0	0.154	0.020	7.569	0.0000 ***
	idx.IBI+2-IBI+1	-0.119	0.021	-5.747	0.0000 ***
	idx.IBI+3-IBI+2	-0.153	0.022	-7.006	0.0000 ***
	resp_type.FA	-0.045	0.006	-7.482	0.0000 ***
	state.MW	-0.064	0.009	-7.204	0.0000 ***
	state.ON	-0.043	0.004	-9.924	0.0000 ***
	idx.IBI-2-IBI-3:resp_type.FA	-0.020	0.020	-0.970	0.3322
	idx.IBI-1-IBI-2:resp_type.FA	0.017	0.020	0.855	0.3925
	idx.IBI_0-IBI-1:resp_type.FA	0.010	0.020	0.509	0.6105
	idx.IBI+1-IBI_0:resp_type.FA	-0.021	0.020	-1.044	0.2965
	idx.IBI+2-IBI+1:resp_type.FA	0.031	0.021	1.509	0.1313
	idx.IBI+3-IBI+2:resp_type.FA	-0.014	0.022	-0.647	0.5179
	idx.IBI-2-IBI-3:state.MW	0.008	0.028	0.305	0.7605
	idx.IBI-1-IBI-2:state.MW	-0.020	0.028	-0.724	0.4688
	idx.IBI_0-IBI-1:state.MW	0.013	0.028	0.475	0.6345
	idx.IBI+1-IBI_0:state.MW	-0.016	0.028	-0.587	0.5571
	idx.IBI+2-IBI+1:state.MW	-0.012	0.028	-0.428	0.6687
	idx.IBI+3-IBI+2:state.MW	-0.005	0.030	-0.169	0.8660
	idx.IBI-2-IBI-3:state.ON	0.004	0.013	0.332	0.7401
	idx.IBI-1-IBI-2:state.ON	-0.002	0.013	-0.184	0.8536
	idx.IBI_0-IBI-1:state.ON	0.004	0.013	0.336	0.7371
	idx.IBI+1-IBI_0:state.ON	0.007	0.013	0.553	0.5802
	idx.IBI+2-IBI+1:state.ON	-0.017	0.013	-1.346	0.1783
	idx.IBI+3-IBI+2:state.ON	-0.000	0.014	-0.036	0.9712
	resp_type.FA:state.MW	0.014	0.008	1.779	0.0752 .

Component	Term	beta	s.e.	t-stat	p-value
	resp_type.FA:state.ON	0.004	0.004	0.972	0.3310
	idx.IBI-2-IBI-3:resp_type.FA:state.MW	0.025	0.028	0.907	0.3643
	idx.IBI-1-IBI-2:resp_type.FA:state.MW	-0.004	0.028	-0.162	0.8715
	idx.IBI_0-IBI-1:resp_type.FA:state.MW	0.002	0.028	0.067	0.9466
	idx.IBI+1-IBI_0:resp_type.FA:state.MW	-0.017	0.028	-0.597	0.5502
	idx.IBI+2-IBI+1:resp_type.FA:state.MW	0.002	0.028	0.080	0.9360
	idx.IBI+3-IBI+2:resp_type.FA:state.MW	0.013	0.030	0.437	0.6621
	idx.IBI-2-IBI-3:resp_type.FA:state.ON	0.001	0.013	0.118	0.9061
	idx.IBI-1-IBI-2:resp_type.FA:state.ON	0.002	0.013	0.134	0.8937
	idx.IBI_0-IBI-1:resp_type.FA:state.ON	-0.008	0.013	-0.671	0.5024
	idx.IBI+1-IBI_0:resp_type.FA:state.ON	-0.000	0.013	-0.005	0.9961
	idx.IBI+2-IBI+1:resp_type.FA:state.ON	-0.005	0.013	-0.411	0.6811
	idx.IBI+3-IBI+2:resp_type.FA:state.ON	0.011	0.014	0.822	0.4111
Component	Term	edf	Ref. df	F-stat	p-value
B. smooth terms	s(subj_id,probe_num)	500.20	583.00	13.11	0.0000 ***

Signif. codes: 0 <= '***' < 0.001 < '**' < 0.01 < '*' < 0.05

Adjusted R-squared: 0.229, Deviance explained 0.244

-REML : 33914.399, Scale est: 0.611, N: 28208