```
1 . use "/Users/michaelodonnell/Dropbox/Research/Referrals Fetzer Confirmation/Full Data Set/Referrals__Fetz
  > er_Confirmation_to_analyze_long_attention check applied.dta"

2 . do "/Users/michaelodonnell/Dropbox/Research/Referrals Fetzer Confirmation/Full Data Set/decline effect r
  > eferrals analysis script.do"

3 . preserve

4 . keep if second_750_true ==1
  (1,674 observations deleted)

5 . xtmixed accept_ condition##time || id:,

  Performing EM optimization:

  Performing gradient-based optimization:

  Iteration 0:   log likelihood = -2941.4016
  Iteration 1:   log likelihood = -2941.4015

  Computing standard errors:

  Mixed-effects ML regression                     Number of obs     =      1,510
  Group variable: id                              Number of groups  =        755

                                                  Obs per group:
                                                                min =          2
                                                                avg =        2.0
                                                                max =          2

                                                  Wald chi2(3)      =     122.94
  Log likelihood = -2941.4015                     Prob > chi2       =     0.0000
```

accept_	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
1.condition_referrer	-.4209972	.1353712	-3.11	0.002	-.6863199	-.1556746
2.time	.765896	.0950826	8.06	0.000	.5795375	.9522544
condition_referrer#time						
1 2	-.2279986	.1291852	-1.76	0.078	-.481197	.0251997
_cons	4.066474	.0996356	40.81	0.000	3.871192	4.261756

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
id: Identity				
sd(_cons)	1.367767	.0520355	1.269489	1.473654
sd(Residual)	1.250616	.0321837	1.189101	1.315313

```
  LR test vs. linear model: chibar2(01) = 265.68        Prob >= chibar2 = 0.0000

6 . contrast time@condition, effects

  Contrasts of marginal linear predictions

  Margins      : asbalanced
```


	df	chi2	P>chi2
accept_			
time@condition_referrer			
0	**1**	**64.88**	**0.0000**
1	**1**	**37.83**	**0.0000**
Joint	**2**	**102.71**	**0.0000**

	Contrast	Std. Err.	z	P>|z|	[95% Conf.	Interval]
accept_						
time@condition_referrer						
(2 vs base) 0	**.765896**	**.0950826**	**8.06**	**0.000**	**.5795375**	**.9522544**
(2 vs base) 1	**.5378973**	**.0874535**	**6.15**	**0.000**	**.3664916**	**.7093031**

7 . xtmixed qual_ condition##time || id:,

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: log likelihood = **-2914.6739**
Iteration 1: log likelihood = **-2914.6734**
Iteration 2: log likelihood = **-2914.6734**

Computing standard errors:

Mixed-effects ML regression — Number of obs = **1,510**
Group variable: **id** — Number of groups = **755**

Obs per group:
min = **2**
avg = **2.0**
max = **2**

Wald chi2(**3**) = **7.34**
Log likelihood = **-2914.6734** — Prob > chi2 = **0.0617**

qual_	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
1.condition_referrer	**.2282318**	**.1311186**	**1.74**	**0.082**	**-.0287559**	**.4852196**
2.time	**-.017341**	**.0959775**	**-0.18**	**0.857**	**-.2054534**	**.1707713**
condition_referrer#time						
1 2	**.1102506**	**.130401**	**0.85**	**0.398**	**-.1453308**	**.3658319**
_cons	**5.184971**	**.0965056**	**53.73**	**0.000**	**4.995824**	**5.374119**

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
id: Identity				
sd(_cons)	**1.276242**	**.0514815**	**1.179226**	**1.38124**
sd(Residual)	**1.262386**	**.0324866**	**1.200293**	**1.327692**

LR test vs. linear model: chibar2(01) = **222.74** — Prob >= chibar2 = **0.0000**

```
 8 . contrast time@condition, effects

   Contrasts of marginal linear predictions

   Margins      : asbalanced
```

	df	chi2	P>chi2
qual_			
time@condition_referrer			
0	**1**	**0.03**	**0.8566**
1	**1**	**1.11**	**0.2926**
Joint	**2**	**1.14**	**0.5654**

	Contrast	Std. Err.	z	P>|z|	[95% Conf.	Interval]
qual_						
time@condition_referrer						
(2 vs base) 0	**-.017341**	**.0959775**	**-0.18**	**0.857**	**-.2054534**	**.1707713**
(2 vs base) 1	**.0929095**	**.0882766**	**1.05**	**0.293**	**-.0801094**	**.2659285**

```
 9 . restore

10 . preserve

11 . keep if second_750_true ==0
   (1,510 observations deleted)

12 . xtmixed accept_ condition##time || id:,

   Performing EM optimization:

   Performing gradient-based optimization:

   Iteration 0:   log likelihood = -3240.9516
   Iteration 1:   log likelihood = -3240.9516

   Computing standard errors:

   Mixed-effects ML regression                     Number of obs     =      1,674
   Group variable: id                              Number of groups  =        837

                                                   Obs per group:
                                                                 min =          2
                                                                 avg =        2.0
                                                                 max =          2

                                                   Wald chi2(3)      =      71.57
   Log likelihood = -3240.9516                     Prob > chi2       =     0.0000
```

accept_	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
1.condition_referrer	**-.5736131**	**.1290197**	**-4.45**	**0.000**	**-.826487**	**-.3207393**
2.time	**.3707572**	**.0869154**	**4.27**	**0.000**	**.2004061**	**.5411083**
condition_referrer#time						
1 2	**.078582**	**.1180135**	**0.67**	**0.505**	**-.1527202**	**.3098842**

_cons	**4.174935**	**.0950213**	**43.94**	**0.000**	**3.988696**	**4.361173**

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
id: Identity				
sd(_cons)	**1.418266**	**.0487498**	**1.325866**	**1.517106**
sd(Residual)	**1.202766**	**.029397**	**1.146508**	**1.261786**

LR test vs. linear model: chibar2(01) = **345.68** Prob >= chibar2 = **0.0000**

```
13 . contrast time@condition, effects
```

Contrasts of marginal linear predictions

Margins : **asbalanced**

	df	chi2	P>chi2
accept_			
time@condition_referrer			
0	**1**	**18.20**	**0.0000**
1	**1**	**31.68**	**0.0000**
Joint	**2**	**49.88**	**0.0000**

	Contrast	Std. Err.	z	P>|z|	[95% Conf.	Interval]
accept_						
time@condition_referrer						
(2 vs base) 0	**.3707572**	**.0869154**	**4.27**	**0.000**	**.2004061**	**.5411083**
(2 vs base) 1	**.4493392**	**.0798304**	**5.63**	**0.000**	**.2928745**	**.6058039**

```
14 . xtmixed qual_ condition##time || id:,

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0:   log likelihood = -3252.2901
Iteration 1:   log likelihood = -3252.2891
Iteration 2:   log likelihood = -3252.2891

Computing standard errors:

Mixed-effects ML regression                     Number of obs     =      1,674
Group variable: id                              Number of groups  =        837

                                                Obs per group:
                                                              min =          2
                                                              avg =        2.0
                                                              max =          2

                                                Wald chi2(3)      =      12.29
Log likelihood = -3252.2891                     Prob > chi2       =     0.0065

------------------------------------------------------------------------------
        qual_ |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
```

1.condition_referrer	**-.0591206**	**.1253774**	**-0.47**	**0.637**	**-.3048558**	**.1866147**
2.time	**-.2950392**	**.0934855**	**-3.16**	**0.002**	**-.4782675**	**-.1118109**
condition_referrer#time						
1 2	**.376537**	**.1269344**	**2.97**	**0.003**	**.1277502**	**.6253238**
_cons	**5.349869**	**.0923389**	**57.94**	**0.000**	**5.168889**	**5.53085**

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
id: Identity				
sd(_cons)	**1.261751**	**.0497626**	**1.167892**	**1.363152**
sd(Residual)	**1.293686**	**.0316192**	**1.233174**	**1.357167**

LR test vs. linear model: chibar2(01) = **227.13** Prob >= chibar2 = **0.0000**

```
15 . contrast time@condition, effects
```

Contrasts of marginal linear predictions

Margins : **asbalanced**

	df	chi2	P>chi2
qual_			
time@condition_referrer			
0	**1**	**9.96**	**0.0016**
1	**1**	**0.90**	**0.3425**
Joint	**2**	**10.86**	**0.0044**

	Contrast	Std. Err.	z	P>|z|	[95% Conf.	Interval]
qual_						
time@condition_referrer						
(2 vs base) 0	**-.2950392**	**.0934855**	**-3.16**	**0.002**	**-.4782675**	**-.1118109**
(2 vs base) 1	**.0814978**	**.0858649**	**0.95**	**0.343**	**-.0867944**	**.24979**

```
16 . restore

17 . xtmixed accept_ condition##time || id:,
```

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: log likelihood = **-6188.6177**
Iteration 1: log likelihood = **-6188.6175**

Computing standard errors:

Mixed-effects ML regression — Number of obs = **3,184**
Group variable: **id** — Number of groups = **1,592**

Obs per group:
min = **2**

```
                                                      avg =        2.0
                                                      max =          2

                                              Wald chi2(3)      =     185.93
Log likelihood = -6188.6175                   Prob > chi2       =     0.0000
```

accept_	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
1.condition_referrer	-.5012088	.0934864	-5.36	0.000	-.6844389	-.3179788
2.time	.558299	.0644011	8.67	0.000	.4320752	.6845229
condition_referrer#time						
1 2	-.0669897	.0874701	-0.77	0.444	-.2384278	.1044485
_cons	4.123457	.0688307	59.91	0.000	3.988551	4.258363

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
id: Identity				
sd(_cons)	1.393556	.0356305	1.325442	1.46517
sd(Residual)	1.229538	.0217899	1.187564	1.272996

```
LR test vs. linear model: chibar2(01) = 605.02        Prob >= chibar2 = 0.0000
```

```
18 . contrast time@condition, effects

   Contrasts of marginal linear predictions

   Margins      : asbalanced
```

	df	chi2	P>chi2
accept_			
time@condition_referrer			
0	1	75.15	0.0000
1	1	68.90	0.0000
Joint	2	144.05	0.0000

	Contrast	Std. Err.	z	P>|z|	[95% Conf.	Interval]
accept_						
time@condition_referrer						
(2 vs base) 0	.558299	.0644011	8.67	0.000	.4320752	.6845229
(2 vs base) 1	.4913094	.0591904	8.30	0.000	.3752982	.6073205

```
19 . xtmixed qual_ condition##time || id:,

   Performing EM optimization:

   Performing gradient-based optimization:

   Iteration 0:   log likelihood = -6170.0991
   Iteration 1:   log likelihood = -6170.0976
   Iteration 2:   log likelihood = -6170.0976
```

Computing standard errors:

Mixed-effects ML regression — Number of obs = **3,184**
Group variable: **id** — Number of groups = **1,592**

Obs per group:
min = **2**
avg = **2.0**
max = **2**

Wald chi2(**3**) = **14.56**
Log likelihood = **-6170.0976** — Prob > chi2 = **0.0022**

qual_	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
1.condition_referrer	**.0771784**	**.0906818**	**0.85**	**0.395**	**-.1005547**	**.2549114**
2.time	**-.1632373**	**.0670788**	**-2.43**	**0.015**	**-.2947094**	**-.0317652**
condition_referrer#time						
1 2	**.2501435**	**.091107**	**2.75**	**0.006**	**.0715771**	**.4287098**
_cons	**5.271605**	**.0667658**	**78.96**	**0.000**	**5.140746**	**5.402463**

Random-effects Parameters	Estimate	Std. Err.	[95% Conf.	Interval]
id: Identity				
sd(_cons)	**1.26868**	**.0358198**	**1.200381**	**1.340864**
sd(Residual)	**1.280661**	**.0226959**	**1.236942**	**1.325926**

LR test vs. linear model: chibar2(01) = **448.09** — Prob >= chibar2 = **0.0000**

20 . contrast time@condition, effects

Contrasts of marginal linear predictions

Margins : **asbalanced**

	df	chi2	P>chi2
qual_			
time@condition_referrer			
0	**1**	**5.92**	**0.0150**
1	**1**	**1.99**	**0.1586**
Joint	**2**	**7.91**	**0.0192**

	Contrast	Std. Err.	z	P>|z|	[95% Conf.	Interval]
qual_						
time@condition_referrer						
(2 vs base) 0	**-.1632373**	**.0670788**	**-2.43**	**0.015**	**-.2947094**	**-.0317652**
(2 vs base) 1	**.0869061**	**.0616515**	**1.41**	**0.159**	**-.0339286**	**.2077409**

21 .
end of do-file

```
22 .
```