P2 Individual Average data- maximal model

Linear mixed model fit by REML t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]

Formula: **AvgAmp ~ faceRace \* FixArea + Electrode + (faceRace \* FixArea | Subject)**

Data: select

REML criterion at convergence: 2031.1

Scaled residuals:

Min 1Q Median 3Q Max

-2.8832 -0.4449 0.0011 0.4911 3.3929

Random effects:

Groups Name Variance Std.Dev. Corr

Subject (Intercept) 8.9028 2.9838

faceRaceWhite 1.1445 1.0698 -0.22

FixAreafore 2.7960 1.6721 -0.46 0.10

faceRaceWhite:FixAreafore 1.7386 1.3186 0.25 -0.40 -0.45

Residual 0.7108 0.8431

Number of obs: 612, groups: Subject, 51

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 2.36781 0.42607 51.30000 5.557 9.88e-07 \*\*\*

faceRaceWhite -0.74996 0.17814 50.00000 -4.210 0.000106 \*\*\*

FixAreafore -0.52318 0.25321 50.00000 -2.066 0.044009 \*

ElectrodeCZ 0.09635 0.08348 406.00000 1.154 0.249089

ElectrodePZ -0.16491 0.08348 406.00000 -1.975 0.048890 \*

faceRaceWhite:FixAreafore 0.20455 0.22951 50.00000 0.891 0.377063

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

AIC BIC logLik deviance df.resid

2054.118 2129.203 -1010.059 2020.118 595.000 P2 Individual Average data- predicted slopes and intercepts for each effect for each subject

$Subject

(Intercept) faceRaceWhite FixAreafore ElectrodeCZ ElectrodePZ faceRaceWhite:FixAreafore

1 5.35345126 -0.080594263 -1.9552880 0.09635344 -0.1649122 -0.24431891

2 2.42552283 -1.060543240 -1.2266025 0.09635344 -0.1649122 0.09160702

3 5.25841490 -2.085660515 -1.0236838 0.09635344 -0.1649122 1.33932078

4 2.45871710 -0.001820556 -0.7353473 0.09635344 -0.1649122 0.82091610

5 4.05286482 -0.537603734 -0.4372846 0.09635344 -0.1649122 0.08065978

6 1.71981880 -0.910440319 -0.6958230 0.09635344 -0.1649122 0.58401693

7 2.45463821 -1.994155070 0.8206540 0.09635344 -0.1649122 -0.15359066

8 -1.36971011 0.700649892 0.2618882 0.09635344 -0.1649122 -0.85338671

9 3.95416335 -0.974687590 -1.8855147 0.09635344 -0.1649122 0.71428574

10 2.63426122 -0.745398165 1.3363086 0.09635344 -0.1649122 0.40135927

11 3.01554959 -1.718955553 -1.0155690 0.09635344 -0.1649122 0.96505896

12 1.77039274 -0.312432725 -0.2607118 0.09635344 -0.1649122 0.35631494

13 0.54134391 0.426724051 -1.0696906 0.09635344 -0.1649122 0.95703182

14 -1.52980389 -0.994602031 0.9065426 0.09635344 -0.1649122 1.68045593

15 4.20799179 -1.614460152 -2.1573740 0.09635344 -0.1649122 1.38899340

16 4.45033963 -0.350196818 -0.6973929 0.09635344 -0.1649122 1.52299938

17 0.81201594 0.219442970 0.2928258 0.09635344 -0.1649122 -1.57630488

18 4.65448366 -4.061640833 0.1133966 0.09635344 -0.1649122 -0.23657579

19 5.11316214 -0.573308634 -0.4555552 0.09635344 -0.1649122 0.24842488

20 -1.66329383 -0.738238429 0.6148163 0.09635344 -0.1649122 -0.76645237

21 1.02365123 0.017980344 -0.3105570 0.09635344 -0.1649122 0.68076865

22 -2.64196085 0.476128003 1.5217505 0.09635344 -0.1649122 -0.83472180

23 6.06600863 0.439761402 -1.9405189 0.09635344 -0.1649122 0.12258620

24 4.50731359 -0.513996414 -1.4744934 0.09635344 -0.1649122 -0.04759417

25 -1.26099927 -1.371513789 -3.3118447 0.09635344 -0.1649122 0.55544589

26 -3.34164320 -1.196214138 0.4056483 0.09635344 -0.1649122 -0.04243636

27 1.22197520 0.040564553 3.2057054 0.09635344 -0.1649122 -0.74126019

28 3.24746282 -0.573969911 -1.5755199 0.09635344 -0.1649122 0.39784996

29 -2.18735884 -0.383626722 0.1704593 0.09635344 -0.1649122 -0.45350108

30 6.40710827 -0.498728032 -1.1080238 0.09635344 -0.1649122 0.27993231

31 4.83657402 -0.814518717 -2.7625692 0.09635344 -0.1649122 -0.44387993

32 3.69657616 -1.056500906 -1.5456815 0.09635344 -0.1649122 0.89722787

33 6.23301404 -0.605195835 -3.5897585 0.09635344 -0.1649122 3.10115776

P2 Trial by trial data- maximal model

Linear mixed model fit by REML t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]

Formula: **MeanAmp ~ Race \* Fix + Electrode + (Race \* Fix | Subject)**

Data: dat

REML criterion at convergence: 460514.9

Scaled residuals:

Min 1Q Median 3Q Max

-5.6087 -0.6219 -0.0075 0.6135 6.7264

Random effects:

Groups Name Variance Std.Dev. Corr

Subject (Intercept) 0.5307 0.7285

RaceWhite 0.5111 0.7149 -0.41

Fixforehead 0.6835 0.8267 -0.49 0.39

RaceWhite:Fixforehead 0.7908 0.8893 0.35 -0.46 -0.65

Residual 62.1053 7.8807

Number of obs: 66063, groups: Subject, 51

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) -2.293e-01 1.268e-01 6.500e+01 -1.809 0.07504 .

RaceWhite 7.032e-02 1.327e-01 5.000e+01 0.530 0.59839

Fixforehead 1.487e-01 1.448e-01 5.000e+01 1.027 0.30925

ElectrodeCZ 2.092e-01 7.510e-02 6.586e+04 2.786 0.00534 \*\*

ElectrodePZ -2.044e-01 7.510e-02 6.586e+04 -2.722 0.00649 \*\*

RaceWhite:Fixforehead -2.449e-01 1.751e-01 5.000e+01 -1.398 0.16814

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

AIC BIC logLik deviance df.resid

460532.1 460686.7 -230249.0 460498.1 66046.0

P2 Trial by trial data- predicted slopes and intercepts for each effect for each subject

$Subject

(Intercept) RaceWhite Fixforehead ElectrodeCZ ElectrodePZ RaceWhite:Fixforehead

1 0.481825652 -0.33271370 0.24356932 0.2092241 -0.2044186 -0.532870208

2 -0.071226005 -0.05631380 0.48343540 0.2092241 -0.2044186 -0.650101844

3 0.297150707 -0.22682552 -0.58895301 0.2092241 -0.2044186 0.540246369

4 -0.664151068 -0.45413083 -0.08287958 0.2092241 -0.2044186 -0.145499591

5 -0.918075962 0.36900740 0.66491854 0.2092241 -0.2044186 -1.143186106

6 -0.907701358 -0.16053440 -0.28242495 0.2092241 -0.2044186 0.293266286

7 0.775013571 -0.01104084 -0.27302374 0.2092241 -0.2044186 -0.033220878

8 -1.649962554 0.88553355 1.02951910 0.2092241 -0.2044186 -1.082299548

9 0.019814389 -0.41304337 -0.81679847 0.2092241 -0.2044186 -0.367318936

10 0.436220123 -0.69669371 -0.30148797 0.2092241 -0.2044186 0.266521594

11 1.005103903 -0.60368463 0.02405491 0.2092241 -0.2044186 0.210870170

12 -0.251443096 0.37233723 0.51731478 0.2092241 -0.2044186 -0.325944937

13 -1.714238458 0.40255841 0.33776936 0.2092241 -0.2044186 -0.357629928

14 -0.728034539 0.36312382 0.30119232 0.2092241 -0.2044186 -0.181772168

15 0.497908633 0.02844149 -1.12966469 0.2092241 -0.2044186 0.121084371

16 0.812752664 0.56513640 -0.79016058 0.2092241 -0.2044186 0.629886254

17 -0.492667754 0.72398257 1.07336857 0.2092241 -0.2044186 -0.137635879

18 -0.514086392 -0.82659400 0.63101576 0.2092241 -0.2044186 -1.127737880

19 -1.455731036 0.92168112 0.75641728 0.2092241 -0.2044186 -0.726559449

20 -0.361602601 0.24207472 0.49110977 0.2092241 -0.2044186 -0.291581485

21 -0.193194407 -0.97498961 -0.59776470 0.2092241 -0.2044186 0.880099910

22 -0.845365487 0.16330114 -0.90303983 0.2092241 -0.2044186 0.882818331

23 -0.926132084 -0.48311266 -0.69707349 0.2092241 -0.2044186 1.046322688

24 -0.128371280 0.12241960 0.27692267 0.2092241 -0.2044186 -0.581234404

25 0.505070453 -0.26887760 -0.84742126 0.2092241 -0.2044186 -0.166447745

26 0.011859707 -0.24267737 -0.54680873 0.2092241 -0.2044186 0.402045512

27 -0.762586217 1.13148160 1.42873217 0.2092241 -0.2044186 -0.885287825

28 0.671083638 0.52838781 -0.95187277 0.2092241 -0.2044186 0.344041545

29 0.240337248 -0.96796835 0.67016133 0.2092241 -0.2044186 -0.440635042

30 -0.871315157 0.43761994 0.36523015 0.2092241 -0.2044186 -0.485846008

31 0.674782563 -0.85854117 -0.84997435 0.2092241 -0.2044186 -0.582388006

32 -0.273293524 1.11636912 0.52457683 0.2092241 -0.2044186 -1.198187167

33 -0.111128574 -0.18203910 0.03420578 0.2092241 -0.2044186 -0.378811141

P2 Binned data- maximal model

Linear mixed model fit by REML

t-tests use Satterthwaite approximations to degrees of freedom ['lmerMod']

Formula: MeanAmp ~ Race \* Fix + Electrode + (Race \* Fix | Subject) + (Race \* Fix | Bin)

Data: dat

REML criterion at convergence: 42607

Scaled residuals:

Min 1Q Median 3Q Max

-4.8384 -0.6229 -0.0089 0.6284 3.7932

Random effects:

Groups Name Variance Std.Dev. Corr

Subject (Intercept) 8.7464 2.9574

RaceWhite 0.9980 0.9990 -0.23

Fixforehead 2.8613 1.6916 -0.42 0.15

RaceWhite:Fixforehead 2.2143 1.4880 0.25 -0.42 -0.49

Bin (Intercept) 0.5229 0.7231

RaceWhite 0.1879 0.4335 -0.78

Fixforehead 0.3076 0.5546 -0.76 0.46

RaceWhite:Fixforehead 0.5223 0.7227 0.63 -0.85 -0.59

Residual 11.3421 3.3678

Number of obs: 7989, groups: Subject, 51; Bin, 15

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 2.41731 0.46444 62.00000 5.205 2.31e-06 \*\*\*

RaceWhite -0.80686 0.20980 29.00000 -3.846 0.00062 \*\*\*

Fixforehead -0.53953 0.29806 46.00000 -1.810 0.07682 .

ElectrodeCZ 0.09728 0.09229 7725.00000 1.054 0.29192

ElectrodePZ -0.18330 0.09229 7725.00000 -1.986 0.04707 \*

RaceWhite:Fixforehead 0.36213 0.32046 28.00000 1.130 0.26787

AIC BIC logLik deviance df.resid

42651.54 42840.16 -21298.77 42597.54 7962.00 P2 Binned data- predicted slopes and intercepts for each effect for each subject and each bin

$**Subject**

(Intercept) RaceWhite Fixforehead ElectrodeCZ ElectrodePZ RaceWhite:Fixforehead

1 5.2736363 -0.28340343 -1.80927423 0.09727834 -0.1832999 -0.14297068

2 1.9406663 -0.64833970 -0.75059988 0.09727834 -0.1832999 -0.42128008

3 5.3079447 -1.94514659 -1.22911619 0.09727834 -0.1832999 1.28781144

4 2.6738868 -0.10133805 -0.57145551 0.09727834 -0.1832999 0.71079745

5 3.9284130 -0.47028745 -0.32336887 0.09727834 -0.1832999 -0.03492389

6 2.0805288 -0.89099838 -0.90486925 0.09727834 -0.1832999 0.50186562

7 2.5841027 -0.59952494 -1.32872205 0.09727834 -0.1832999 2.06880595

8 -1.1113486 0.57387163 0.07023464 0.09727834 -0.1832999 -0.74462046

9 4.1650078 -0.90500570 -1.89722153 0.09727834 -0.1832999 0.78613918

10 2.6690059 -0.81063925 1.30233774 0.09727834 -0.1832999 0.49219603

11 3.0370719 -1.68153875 -0.96343323 0.09727834 -0.1832999 0.90454382

12 1.8525729 -0.56554485 -0.33233109 0.09727834 -0.1832999 0.63768828

13 0.5131839 0.42395369 -1.11413894 0.09727834 -0.1832999 1.08400768

14 -1.4634738 -1.01014407 0.57540083 0.09727834 -0.1832999 1.83135011

15 3.9184263 -1.36016963 -1.88084255 0.09727834 -0.1832999 1.26549897

16 4.5804666 -0.52022892 -0.74368938 0.09727834 -0.1832999 1.63762127

17 0.9888108 0.26423318 0.15380408 0.09727834 -0.1832999 -1.42570382

18 4.2670972 -3.89233348 0.59253605 0.09727834 -0.1832999 -0.21334936

19 5.2874954 -0.67841710 -0.64170350 0.09727834 -0.1832999 0.52450973

20 -1.5348628 -0.85792987 0.59048609 0.09727834 -0.1832999 -0.68046156

21 1.5849452 -1.41636771 -0.22817628 0.09727834 -0.1832999 1.67871465

22 -2.5052544 0.40739877 1.61935731 0.09727834 -0.1832999 -0.92543040

23 5.9850203 -0.73472695 -1.66463005 0.09727834 -0.1832999 2.71685845

24 4.5012605 -0.59520197 -1.51945568 0.09727834 -0.1832999 0.27371566

25 -1.3152560 -1.31589806 -3.76034527 0.09727834 -0.1832999 0.96086102

26 -3.3110658 -1.06245675 0.40027168 0.09727834 -0.1832999 0.25038261

27 1.4487679 -0.18321057 3.01854461 0.09727834 -0.1832999 -0.32429571

28 3.1832163 -0.44174990 -1.56966251 0.09727834 -0.1832999 0.42233625

29 -2.2016370 -0.63809040 0.18521004 0.09727834 -0.1832999 -0.14351547

30 6.4874954 -0.53352375 -1.09452859 0.09727834 -0.1832999 0.34945481

31 4.8862121 -0.67103020 -2.83755059 0.09727834 -0.1832999 -0.40156972

32 3.7027117 -1.22613372 -1.55437653 0.09727834 -0.1832999 1.17746517

33 6.4438223 -0.66755066 -3.60270627 0.09727834 -0.1832999 3.14910064

$**Bin**

(Intercept) RaceWhite Fixforehead ElectrodeCZ ElectrodePZ RaceWhite:Fixforehead

1 0.9821111 -0.19105054 0.1168957 0.09727834 -0.1832999 -0.137159243

2 0.8062954 0.01979124 0.4078768 0.09727834 -0.1832999 -1.080883347

3 1.9280414 -0.80608186 -0.1667434 0.09727834 -0.1832999 0.707765968

4 2.7340815 -0.54929492 -1.1724434 0.09727834 -0.1832999 0.009775789

5 2.6761247 -1.04306483 -0.3361320 0.09727834 -0.1832999 0.420565479

6 2.4622169 -0.89403780 -0.4591226 0.09727834 -0.1832999 0.371196007

7 2.9559302 -0.94086067 -1.2332369 0.09727834 -0.1832999 0.891145161

8 2.4391805 -0.36463036 -0.7550408 0.09727834 -0.1832999 -0.461093236

9 2.7664154 -1.13472279 -0.8257492 0.09727834 -0.1832999 0.871421427

10 2.5352937 -0.84751211 -0.7400435 0.09727834 -0.1832999 0.633488512

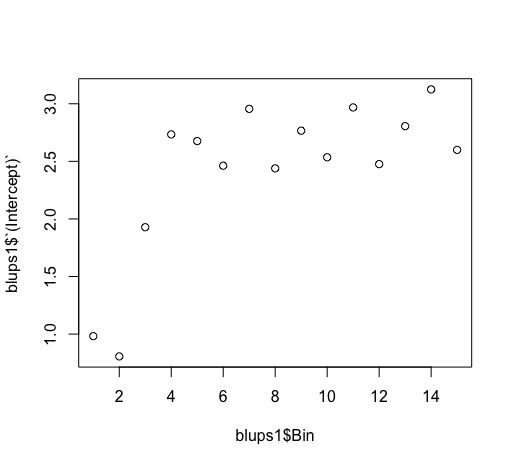
11 2.9681342 -1.01298587 -0.6257249 0.09727834 -0.1832999 0.532051994

12 2.4758981 -0.88187894 -0.5374133 0.09727834 -0.1832999 0.426814078

13 2.8057459 -1.08660707 -0.2153129 0.09727834 -0.1832999 0.260185701

14 3.1247079 -1.31321399 -1.1345013 0.09727834 -0.1832999 1.341990565

15 2.5995094 -1.05667798 -0.4162305 0.09727834 -0.1832999 0.644753388

P2 Binned data- slopes vary by subject, intercept varies by bin

Linear mixed model fit by REML t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]

Formula: MeanAmp ~ Race \* Fix + Electrode + (Race \* Fix | Subject) + (1 | Bin)

Data: dat

REML criterion at convergence: 42641.1

Scaled residuals:

Min 1Q Median 3Q Max

-4.7697 -0.6262 -0.0117 0.6353 3.8376

Random effects:

Groups Name Variance Std.Dev. Corr

Subject (Intercept) 8.7554 2.9589

RaceWhite 0.9996 0.9998 -0.23

Fixforehead 2.8530 1.6891 -0.43 0.14

RaceWhite:Fixforehead 2.2109 1.4869 0.25 -0.42 -0.48

Bin (Intercept) 0.2215 0.4707

Residual 11.4355 3.3816

Number of obs: 7989, groups: Subject, 51; Bin, 15

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 2.40364 0.44204 59.00000 5.438 1.09e-06 \*\*\*

RaceWhite -0.75957 0.17659 49.00000 -4.301 8.01e-05 \*\*\*

Fixforehead -0.53056 0.25973 50.00000 -2.043 0.0464 \*

ElectrodeCZ 0.09728 0.09267 7767.00000 1.050 0.2939

ElectrodePZ -0.18330 0.09267 7767.00000 -1.978 0.0480 \*

RaceWhite:Fixforehead 0.30118 0.25791 49.00000 1.168 0.2486

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

AIC BIC logLik deviance df.resid

42666.93 42792.67 -21315.46 42630.93 7971.00

P2 Binned data- predicted slopes and intercepts for each effect for each subject and each bin

$Subject

(Intercept) RaceWhite Fixforehead ElectrodeCZ ElectrodePZ RaceWhite:Fixforehead

1 5.24829921 -0.23062308 -1.77930711 0.09727834 -0.1832999 -0.21057037

2 1.93563707 -0.61801935 -0.75167859 0.09727834 -0.1832999 -0.45697187

3 5.28070026 -1.89087375 -1.19777408 0.09727834 -0.1832999 1.20186060

4 2.65530725 -0.02802611 -0.57260734 0.09727834 -0.1832999 0.63016227

5 3.90299468 -0.42602408 -0.29364450 0.09727834 -0.1832999 -0.09464430

6 2.05341586 -0.83491784 -0.88448674 0.09727834 -0.1832999 0.44070456

7 2.55488359 -0.49875380 -1.30599152 0.09727834 -0.1832999 1.94108501

8 -1.12955498 0.64138418 0.09193407 0.09727834 -0.1832999 -0.83957423

9 4.13858149 -0.80513741 -1.89098463 0.09727834 -0.1832999 0.67482689

10 2.66942660 -0.77971430 1.29485897 0.09727834 -0.1832999 0.45600853

11 3.00957001 -1.62625775 -0.93151904 0.09727834 -0.1832999 0.81706398

12 1.84921734 -0.53755513 -0.32768096 0.09727834 -0.1832999 0.59596738

13 0.50650906 0.44066244 -1.10362280 0.09727834 -0.1832999 1.05685062

14 -1.46745730 -0.98065630 0.58932483 0.09727834 -0.1832999 1.77877423

15 3.91175935 -1.32773328 -1.87829242 0.09727834 -0.1832999 1.22519109

16 4.57473451 -0.50634323 -0.74257957 0.09727834 -0.1832999 1.61323323

17 0.96152731 0.34435039 0.15869306 0.09727834 -0.1832999 -1.50788630

18 4.23529779 -3.84053566 0.61325544 0.09727834 -0.1832999 -0.27899534

19 5.29036391 -0.62896309 -0.65332365 0.09727834 -0.1832999 0.45550941

20 -1.56061268 -0.78253814 0.59905652 0.09727834 -0.1832999 -0.76625986

21 1.57949247 -1.38502951 -0.22583351 0.09727834 -0.1832999 1.64617536

22 -2.49989210 0.45532628 1.61779157 0.09727834 -0.1832999 -1.00539881

23 5.98397515 -0.70181600 -1.65418159 0.09727834 -0.1832999 2.66172611

24 4.49304708 -0.57796050 -1.51682392 0.09727834 -0.1832999 0.24896755

25 -1.34427132 -1.23207843 -3.72257260 0.09727834 -0.1832999 0.84657333

26 -3.31726096 -1.02927340 0.40884259 0.09727834 -0.1832999 0.20298782

27 1.42912380 -0.13985352 3.02602632 0.09727834 -0.1832999 -0.38682294

28 3.17863381 -0.41158272 -1.56286309 0.09727834 -0.1832999 0.38677790

29 -2.20606105 -0.60737779 0.19784817 0.09727834 -0.1832999 -0.19364992

30 6.48385735 -0.50693028 -1.09781167 0.09727834 -0.1832999 0.31763592

31 4.87891145 -0.63917167 -2.83773445 0.09727834 -0.1832999 -0.45464067

32 3.69410204 -1.20710637 -1.54267683 0.09727834 -0.1832999 1.15143116

33 6.42039015 -0.59471842 -3.59144945 0.09727834 -0.1832999 3.05704764

$Bin

(Intercept) RaceWhite Fixforehead ElectrodeCZ ElectrodePZ RaceWhite:Fixforehead

1 1.498689 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

2 1.307942 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

3 2.215755 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

4 2.437334 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

5 2.669861 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

6 2.437522 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

7 2.650999 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

8 2.365165 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

9 2.515722 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

10 2.476055 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

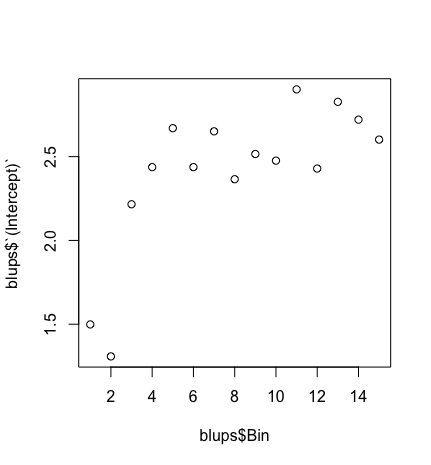
11 2.901244 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

12 2.428973 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

13 2.827013 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

14 2.720714 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807

15 2.601632 -0.7595709 -0.530557 0.09727834 -0.1832999 0.3011807



P2 Binned data- slopes vary by subject, bin is included as fixed variable (continuous)

Linear mixed model fit by REML t-tests use Satterthwaite approximations to degrees of freedom [lmerMod]

Formula: **MeanAmp ~ Race \* Fix + Electrode + Bin + (Race \* Fix | Subject)**

Data: dat

REML criterion at convergence: 42677.5

Scaled residuals:

Min 1Q Median 3Q Max

-4.7742 -0.6307 -0.0110 0.6406 3.9498

Random effects:

Groups Name Variance Std.Dev. Corr

Subject (Intercept) 8.745 2.957

RaceWhite 1.001 1.000 -0.23

Fixforehead 2.836 1.684 -0.43 0.14

RaceWhite:Fixforehead 2.178 1.476 0.25 -0.42 -0.48

Residual 11.529 3.395

Number of obs: 7989, groups: Subject, 51

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 1.71070 0.43016 55.00000 3.977 0.000207 \*\*\*

RaceWhite -0.75771 0.17693 49.00000 -4.283 8.52e-05 \*\*\*

Fixforehead -0.53409 0.25927 50.00000 -2.060 0.044636 \*

ElectrodeCZ 0.09728 0.09305 7780.00000 1.045 0.295861

ElectrodePZ -0.18330 0.09305 7780.00000 -1.970 0.048889 \*

Bin 0.09236 0.00988 7801.00000 9.348 < 2e-16 \*\*\*

RaceWhite:Fixforehead 0.30351 0.25702 49.00000 1.181 0.243357

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

AIC BIC logLik deviance df.resid

42695.80 42821.54 -21329.90 42659.80 7971.00

Binned data- predicted slopes and intercepts for each effect for each subject

$Subject

(Intercept) RaceWhite Fixforehead ElectrodeCZ ElectrodePZ Bin RaceWhite:Fixforehead

1 4.5623183 -0.234790449 -1.78265062 0.09727834 -0.1832999 0.09235531 -0.21814091

2 1.2294998 -0.619993697 -0.75358341 0.09727834 -0.1832999 0.09235531 -0.45114997

3 4.5928961 -1.887207215 -1.19633465 0.09727834 -0.1832999 0.09235531 1.19719642

4 1.9851365 -0.007453619 -0.54857359 0.09727834 -0.1832999 0.09235531 0.60212460

5 3.2139609 -0.441237924 -0.29447324 0.09727834 -0.1832999 0.09235531 -0.09333751

6 1.3655284 -0.833887355 -0.90210300 0.09727834 -0.1832999 0.09235531 0.43993232

7 1.9200992 -0.494023182 -1.30069711 0.09727834 -0.1832999 0.09235531 1.92793807

8 -1.8065888 0.637593347 0.08266479 0.09727834 -0.1832999 0.09235531 -0.82618126

9 3.4874961 -0.792249846 -1.89214091 0.09727834 -0.1832999 0.09235531 0.67929370

10 1.9662372 -0.764510449 1.28921064 0.09727834 -0.1832999 0.09235531 0.44243350

11 2.3223321 -1.623686759 -0.93056684 0.09727834 -0.1832999 0.09235531 0.81413357

12 1.1402899 -0.533798990 -0.35263731 0.09727834 -0.1832999 0.09235531 0.61581355

13 -0.2332510 0.442780051 -1.09888050 0.09727834 -0.1832999 0.09235531 1.04927768

14 -2.2001864 -0.955047184 0.63391104 0.09727834 -0.1832999 0.09235531 1.73122141

15 3.2031372 -1.324659306 -1.87464100 0.09727834 -0.1832999 0.09235531 1.21941784

16 3.8612748 -0.522753504 -0.73364988 0.09727834 -0.1832999 0.09235531 1.62230247

17 0.3125492 0.342582491 0.14528928 0.09727834 -0.1832999 0.09235531 -1.51283963

18 3.5446015 -3.849899999 0.59474519 0.09727834 -0.1832999 0.09235531 -0.24726881

19 4.5877901 -0.609967636 -0.65705893 0.09727834 -0.1832999 0.09235531 0.45514852

20 -2.2097088 -0.804081270 0.57244343 0.09727834 -0.1832999 0.09235531 -0.71455918

21 0.8453482 -1.360607410 -0.20099079 0.09727834 -0.1832999 0.09235531 1.59331921

22 -3.1987788 0.469479801 1.62659436 0.09727834 -0.1832999 0.09235531 -1.01370931

23 5.2784809 -0.683377739 -1.63404485 0.09727834 -0.1832999 0.09235531 2.61947916

24 3.7556779 -0.578533059 -1.48772253 0.09727834 -0.1832999 0.09235531 0.25032400

25 -2.0314517 -1.226268408 -3.71617029 0.09727834 -0.1832999 0.09235531 0.84380750

26 -4.0512143 -1.004910225 0.40743674 0.09727834 -0.1832999 0.09235531 0.20402175

27 0.7441737 -0.138478127 3.00266928 0.09727834 -0.1832999 0.09235531 -0.36892397

28 2.4693937 -0.411214905 -1.58976463 0.09727834 -0.1832999 0.09235531 0.38654353

29 -2.9111493 -0.608877880 0.21357586 0.09727834 -0.1832999 0.09235531 -0.20696854

30 5.7514228 -0.486905036 -1.07507543 0.09727834 -0.1832999 0.09235531 0.30116726

31 4.1721918 -0.641694180 -2.83652603 0.09727834 -0.1832999 0.09235531 -0.43130041

32 2.9786657 -1.224016780 -1.56226796 0.09727834 -0.1832999 0.09235531 1.16385833

33 5.7376267 -0.585974305 -3.57728889 0.09727834 -0.1832999 0.09235531 3.06249146