

Psi Performance on Four Online Tests

Julia Mossbridge



**SOCIETY
FOR
SCIENTIFIC
EXPLORATION**

1
00:00:08,629 --> 00:00:06,150

[Music]

2
00:00:10,390 --> 00:00:08,639

hi i'm julia mosbridge and i'm here to

3
00:00:13,030 --> 00:00:10,400

present the results

4
00:00:15,190 --> 00:00:13,040

of a bunch of analyses

5
00:00:16,950 --> 00:00:15,200

of four online tests

6
00:00:19,429 --> 00:00:16,960

of psy so

7
00:00:22,230 --> 00:00:19,439

as you probably already know psy is a

8
00:00:24,630 --> 00:00:22,240

name for esp

9
00:00:26,150 --> 00:00:24,640

it includes precognition

10
00:00:27,830 --> 00:00:26,160

clairvoyance

11
00:00:30,950 --> 00:00:27,840

psychokinesis

12
00:00:33,590 --> 00:00:30,960

telepathy and mediumship

13
00:00:35,030 --> 00:00:33,600

forced choice experiments have been

14

00:00:37,590 --> 00:00:35,040

traditionally

15

00:00:41,190 --> 00:00:37,600

extremely tricky to pin down so the

16

00:00:45,430 --> 00:00:43,510

compared to a trickster

17

00:00:46,709 --> 00:00:45,440

in fact several authors have said maybe

18

00:00:48,549 --> 00:00:46,719

there's something going on where we're

19

00:00:50,229 --> 00:00:48,559

not supposed to exactly figure out

20

00:00:52,709 --> 00:00:50,239

what's going on with psy especially in

21

00:00:54,630 --> 00:00:52,719

these forced choice type results which

22

00:00:58,150 --> 00:00:54,640

seem to skip around

23

00:01:00,229 --> 00:00:58,160

um it's also been compared to

24

00:01:02,470 --> 00:01:00,239

the idea that there's this no signaling

25

00:01:05,189 --> 00:01:02,480

principle because we because of quantum

26

00:01:08,390 --> 00:01:05,199

constraints on signaling over time

27

00:01:10,070 --> 00:01:08,400

perhaps we can't use psi to signal

28

00:01:11,429 --> 00:01:10,080

across space and time in the way that

29

00:01:14,789 --> 00:01:11,439

you would want to

30

00:01:16,630 --> 00:01:14,799

given the sufficient evidence for psi

31

00:01:19,749 --> 00:01:16,640

abilities

32

00:01:21,670 --> 00:01:19,759

so i previously compared the same sort

33

00:01:24,230 --> 00:01:21,680

of trickster-like

34

00:01:26,310 --> 00:01:24,240

phenomenon to a pascal's principle for

35

00:01:28,070 --> 00:01:26,320

psy where you would push down on a fluid

36

00:01:30,069 --> 00:01:28,080

in one place and it rises in another

37

00:01:31,670 --> 00:01:30,079

place like you stress the system

38

00:01:33,190 --> 00:01:31,680

in one place and then it shows the

39

00:01:35,510 --> 00:01:33,200

stress elsewhere

40

00:01:38,710 --> 00:01:35,520

all of these examples are people trying

41

00:01:41,190 --> 00:01:38,720

researchers aside trying to understand

42

00:01:43,510 --> 00:01:41,200

especially in forced choice experiments

43

00:01:45,830 --> 00:01:43,520

how to use the data to really get at

44

00:01:47,429 --> 00:01:45,840

what's going on in terms of mechanism

45

00:01:50,069 --> 00:01:47,439

and how to use it potentially for

46

00:01:51,830 --> 00:01:50,079

applications it seems very tempting the

47

00:01:53,990 --> 00:01:51,840

data are very clear there's something

48

00:01:56,709 --> 00:01:54,000

actually going on and then the question

49

00:01:59,429 --> 00:01:56,719

becomes how do you pin it down

50

00:02:01,510 --> 00:01:59,439

so what we wanted to present here

51
00:02:03,749 --> 00:02:01,520
my co-authors dean raiden and mark

52
00:02:06,709 --> 00:02:03,759
bakuzi and i wanted to present

53
00:02:07,830 --> 00:02:06,719
a search principle versailles

54
00:02:09,589 --> 00:02:07,840
given

55
00:02:11,750 --> 00:02:09,599
and this search principle is especially

56
00:02:13,110 --> 00:02:11,760
for forged choice experiments because we

57
00:02:15,510 --> 00:02:13,120
already know that free response

58
00:02:17,270 --> 00:02:15,520
experiments like remote viewing and

59
00:02:19,589 --> 00:02:17,280
precognitive remote viewing

60
00:02:21,270 --> 00:02:19,599
uh show impressive effects but this is

61
00:02:23,350 --> 00:02:21,280
for forced choice experiments that you

62
00:02:25,110 --> 00:02:23,360
could do online because that's where we

63
00:02:26,630 --> 00:02:25,120

can get the most data

64

00:02:28,790 --> 00:02:26,640

and at the same time have the hardest

65

00:02:30,309 --> 00:02:28,800

time pinning things down so the search

66

00:02:32,309 --> 00:02:30,319

principle has

67

00:02:33,910 --> 00:02:32,319

six elements so first of all it's

68

00:02:35,270 --> 00:02:33,920

acknowledging that these are small

69

00:02:39,110 --> 00:02:35,280

effects

70

00:02:40,710 --> 00:02:39,120

be talking about them all the time the

71

00:02:42,150 --> 00:02:40,720

same time we talk about the fact that

72

00:02:44,070 --> 00:02:42,160

when you drop a ball it falls to the

73

00:02:45,750 --> 00:02:44,080

ground right these are small effects so

74

00:02:48,710 --> 00:02:45,760

let's admit that which means we're going

75

00:02:49,589 --> 00:02:48,720

to have to do some work to pull them out

76

00:02:53,110 --> 00:02:49,599

two

77

00:02:55,830 --> 00:02:53,120

we are actually early and exploratory

78

00:02:57,750 --> 00:02:55,840

on the timeline of understanding psy

79

00:02:59,830 --> 00:02:57,760

and the reason is partly because of

80

00:03:00,949 --> 00:02:59,840

taboos that have prevented funding in

81

00:03:03,830 --> 00:03:00,959

this area

82

00:03:06,070 --> 00:03:03,840

and partly because we only recently in

83

00:03:07,350 --> 00:03:06,080

the last couple decades had access to

84

00:03:08,309 --> 00:03:07,360

the internet where we could start

85

00:03:10,869 --> 00:03:08,319

getting

86

00:03:12,550 --> 00:03:10,879

experimental subjects on a large scale

87

00:03:14,470 --> 00:03:12,560

so we're actually very early so let's

88

00:03:16,550 --> 00:03:14,480

try to remember that

89

00:03:19,589 --> 00:03:16,560

in terms of accruing data that's the

90

00:03:21,910 --> 00:03:19,599

next the a in search what we mean what

91

00:03:23,670 --> 00:03:21,920

we mean by that is that because these

92

00:03:25,830 --> 00:03:23,680

are small effects and we're early in

93

00:03:27,910 --> 00:03:25,840

exploratory on the timeline we need to

94

00:03:30,070 --> 00:03:27,920

accrue lots of data we don't need to

95

00:03:31,430 --> 00:03:30,080

stop after we have 45 participants we

96

00:03:33,430 --> 00:03:31,440

need to get more and i'm speaking to

97

00:03:34,470 --> 00:03:33,440

myself as well as everyone else i'm

98

00:03:36,789 --> 00:03:34,480

guilty of

99

00:03:39,110 --> 00:03:36,799

violating all these principles

100

00:03:41,110 --> 00:03:39,120

um the r would be recognize diversity

101
00:03:43,030 --> 00:03:41,120
and approach in other words

102
00:03:44,070 --> 00:03:43,040
because you have a method that works for

103
00:03:45,670 --> 00:03:44,080
you

104
00:03:47,990 --> 00:03:45,680
does not mean that someone else might

105
00:03:49,430 --> 00:03:48,000
develo might not develop a method that

106
00:03:51,430 --> 00:03:49,440
is

107
00:03:53,350 --> 00:03:51,440
sufficient and perhaps superior for the

108
00:03:55,270 --> 00:03:53,360
data that they're looking at and so

109
00:03:57,350 --> 00:03:55,280
supporting this kind of diversity and

110
00:03:58,789 --> 00:03:57,360
approach rather than thinking oh well

111
00:04:01,030 --> 00:03:58,799
you have to do it this way because it's

112
00:04:02,550 --> 00:04:01,040
been done this way

113
00:04:03,509 --> 00:04:02,560

that's the direction we need to go we

114

00:04:05,910 --> 00:04:03,519

believe

115

00:04:07,030 --> 00:04:05,920

characterize don't impose that's the c

116

00:04:09,830 --> 00:04:07,040

in search

117

00:04:12,149 --> 00:04:09,840

what that is about is recognizing that

118

00:04:13,670 --> 00:04:12,159

if you are if you're trying to track a

119

00:04:15,190 --> 00:04:13,680

mysterious

120

00:04:17,430 --> 00:04:15,200

you know you're a naturalist and you're

121

00:04:19,749 --> 00:04:17,440

trying to track a mysterious butterfly

122

00:04:22,310 --> 00:04:19,759

that's hard to pin down and hard to cite

123

00:04:24,629 --> 00:04:22,320

and hard to understand and moves quickly

124

00:04:26,790 --> 00:04:24,639

the best thing to do is not assume

125

00:04:28,790 --> 00:04:26,800

that it must move in a particular place

126

00:04:30,870 --> 00:04:28,800

in a particular way the best thing to do

127

00:04:32,550 --> 00:04:30,880

is describe it and then once you've

128

00:04:34,629 --> 00:04:32,560

described it and you understand the way

129

00:04:36,550 --> 00:04:34,639

it's shaped and the way it moves then

130

00:04:38,070 --> 00:04:36,560

you hone in on the big results the

131

00:04:40,950 --> 00:04:38,080

things that seem most obvious and you

132

00:04:44,550 --> 00:04:40,960

can hone in on those by using a

133

00:04:46,950 --> 00:04:44,560

pre-registered confirmatory analyses

134

00:04:49,110 --> 00:04:46,960

that's one way we recommend so

135

00:04:51,990 --> 00:04:49,120

i'm going to show the results of four

136

00:04:54,550 --> 00:04:52,000

online psi tests done in collaboration

137

00:04:56,790 --> 00:04:54,560

with dean rayden and mark bacuzi

138

00:04:59,110 --> 00:04:56,800

at the institute of genetic sciences and

139

00:05:01,830 --> 00:04:59,120

at the windbridge institute

140

00:05:03,909 --> 00:05:01,840

so there's three of them were app-based

141

00:05:05,510 --> 00:05:03,919

an app called psi

142

00:05:08,790 --> 00:05:05,520

q initially and then the name was

143

00:05:10,790 --> 00:05:08,800

changed to psi cubed site three

144

00:05:12,390 --> 00:05:10,800

um we're on that app we've got

145

00:05:14,629 --> 00:05:12,400

unconscious precognition we've got a

146

00:05:16,070 --> 00:05:14,639

test of conscious precognition and we've

147

00:05:17,749 --> 00:05:16,080

got a test of conscious micro

148

00:05:19,749 --> 00:05:17,759

psychokinesis

149

00:05:21,029 --> 00:05:19,759

for that conscious microcycle kinesis

150

00:05:23,270 --> 00:05:21,039

test we did a pre-registered

151

00:05:25,029 --> 00:05:23,280

confirmatory analysis with two data

152

00:05:27,510 --> 00:05:25,039

batches so we saw an effect of the first

153

00:05:29,350 --> 00:05:27,520

data batch and then we was big enough we

154

00:05:31,430 --> 00:05:29,360

wanted to see it if it replicated in the

155

00:05:34,390 --> 00:05:31,440

second data batch

156

00:05:36,390 --> 00:05:34,400

in the website based test it was of

157

00:05:39,029 --> 00:05:36,400

precognitive remote viewing

158

00:05:40,710 --> 00:05:39,039

and again we did uh two data batches

159

00:05:43,510 --> 00:05:40,720

with a pre-registered confirmatory

160

00:05:48,230 --> 00:05:45,430

so first let's talk about the app the

161

00:05:52,790 --> 00:05:48,240

sci-cubed or sci-3 app it was available

162

00:05:54,710 --> 00:05:52,800

um for ios so for iphones from 2017 to

163

00:05:56,629 --> 00:05:54,720

2020.

164

00:05:58,230 --> 00:05:56,639

it is currently unavailable but likely

165

00:05:59,350 --> 00:05:58,240

will be available again right now it's

166

00:06:02,070 --> 00:05:59,360

being used

167

00:06:04,469 --> 00:06:02,080

in some tests in the neurology unit at

168

00:06:06,710 --> 00:06:04,479

baycrest so we're keeping it offline

169

00:06:08,870 --> 00:06:06,720

until those are complete

170

00:06:09,990 --> 00:06:08,880

the random number generator used for all

171

00:06:11,670 --> 00:06:10,000

three

172

00:06:13,749 --> 00:06:11,680

of the games offered here which were

173

00:06:15,189 --> 00:06:13,759

called heart quest future feelings and

174

00:06:16,629 --> 00:06:15,199

hidden gurus

175

00:06:18,790 --> 00:06:16,639

the random number generator was a

176
00:06:20,710 --> 00:06:18,800
pseudo-random number generator xored

177
00:06:22,469 --> 00:06:20,720
with the accelerometer

178
00:06:24,309 --> 00:06:22,479
so it ended up being

179
00:06:26,469 --> 00:06:24,319
a very unpredictable random number

180
00:06:28,550 --> 00:06:26,479
generator

181
00:06:30,150 --> 00:06:28,560
so again the three games here

182
00:06:31,510 --> 00:06:30,160
unconscious precognition that's called

183
00:06:33,270 --> 00:06:31,520
future feelings

184
00:06:35,550 --> 00:06:33,280
conscious precognition was called hidden

185
00:06:37,430 --> 00:06:35,560
gurus conscious micro pk or

186
00:06:38,950 --> 00:06:37,440
micropsychokinesis is called heart quest

187
00:06:41,830 --> 00:06:38,960
and we'll go through these in order so

188
00:06:43,670 --> 00:06:41,840

you could see the results of each

189

00:06:46,309 --> 00:06:43,680

so future feelings here's the way it

190

00:06:48,150 --> 00:06:46,319

worked you would see a picture

191

00:06:51,110 --> 00:06:48,160

a photo and then you had to click the

192

00:06:53,029 --> 00:06:51,120

face that matched the image mood

193

00:06:54,469 --> 00:06:53,039

um in this case it would be you had to

194

00:06:56,790 --> 00:06:54,479

choose between sad and happy it's a

195

00:06:58,629 --> 00:06:56,800

butterfly so right you're probably gonna

196

00:07:00,469 --> 00:06:58,639

choose happy but some of these are a

197

00:07:03,749 --> 00:07:00,479

little difficult to place but all of the

198

00:07:05,749 --> 00:07:03,759

pictures and all of the um designations

199

00:07:09,430 --> 00:07:05,759

of what was correct to designate a

200

00:07:11,749 --> 00:07:09,440

picture were taken from daryl bem's 2011

201
00:07:13,749 --> 00:07:11,759
retroactive priming experiment

202
00:07:16,550 --> 00:07:13,759
so he allowed us to have all the images

203
00:07:17,670 --> 00:07:16,560
and we just reprogrammed them onto the

204
00:07:19,270 --> 00:07:17,680
iphone

205
00:07:21,830 --> 00:07:19,280
after you would pick that then you would

206
00:07:23,670 --> 00:07:21,840
get a word the adjective displayed after

207
00:07:26,309 --> 00:07:23,680
that would be either matching or

208
00:07:28,469 --> 00:07:26,319
congruent like this one enjoyable or

209
00:07:31,749 --> 00:07:28,479
incongruent so if this said ugly that

210
00:07:34,390 --> 00:07:31,759
would be considered incongruent

211
00:07:36,550 --> 00:07:34,400
so the score was usually according to

212
00:07:38,230 --> 00:07:36,560
daryl bend's method is usually the

213
00:07:40,309 --> 00:07:38,240

response time difference between the

214

00:07:41,270 --> 00:07:40,319

congruent and incongruent trials which

215

00:07:46,309 --> 00:07:41,280

we call

216

00:07:50,869 --> 00:07:48,629

so what we have i'm just going to uh in

217

00:07:52,869 --> 00:07:50,879

words explain the complex effects and

218

00:07:54,150 --> 00:07:52,879

then show you a graph that contains

219

00:07:55,510 --> 00:07:54,160

these effects

220

00:07:58,150 --> 00:07:55,520

and that'll be sort of the standard of

221

00:08:00,390 --> 00:07:58,160

what i do throughout the talk so first

222

00:08:03,029 --> 00:08:00,400

of all the results opposed

223

00:08:04,710 --> 00:08:03,039

ben's 2011 results significantly in

224

00:08:08,070 --> 00:08:04,720

other words

225

00:08:09,909 --> 00:08:08,080

congruent trials in his experiment were

226

00:08:11,909 --> 00:08:09,919

usually had faster

227

00:08:13,830 --> 00:08:11,919

responses than incongruent trials we saw

228

00:08:16,230 --> 00:08:13,840

the exact opposite effect

229

00:08:19,189 --> 00:08:16,240

but we also saw that there were faster

230

00:08:20,869 --> 00:08:19,199

responses to positive images that's than

231

00:08:22,629 --> 00:08:20,879

negative images and this was a major

232

00:08:24,550 --> 00:08:22,639

bias and so we ended up splitting the

233

00:08:25,990 --> 00:08:24,560

data into positive and negative images

234

00:08:27,990 --> 00:08:26,000

so we could look at it more carefully

235

00:08:29,749 --> 00:08:28,000

this is part of characterizing rather

236

00:08:31,909 --> 00:08:29,759

than imposing

237

00:08:33,750 --> 00:08:31,919

um we also saw effects of people who

238

00:08:35,350 --> 00:08:33,760

rated themselves as female trending

239

00:08:37,110 --> 00:08:35,360

versus male trending

240

00:08:38,870 --> 00:08:37,120

we saw differences in people who rated

241

00:08:41,430 --> 00:08:38,880

themselves as high with having high

242

00:08:43,670 --> 00:08:41,440

cyber leaf versus low side belief

243

00:08:45,350 --> 00:08:43,680

and we in a multiple liter regression we

244

00:08:47,350 --> 00:08:45,360

found that psi belief gender

245

00:08:48,790 --> 00:08:47,360

extraversion neuroticism

246

00:08:50,870 --> 00:08:48,800

all predicted interaction the

247

00:08:53,030 --> 00:08:50,880

interaction term which the most

248

00:08:55,110 --> 00:08:53,040

informative term that we could derive

249

00:08:57,590 --> 00:08:55,120

from these data was this interaction

250

00:08:59,829 --> 00:08:57,600

term the response time difference for

251
00:09:02,150 --> 00:08:59,839
the positive images minus the response

252
00:09:02,949 --> 00:09:02,160
time difference for the negative images

253
00:09:04,710 --> 00:09:02,959
so

254
00:09:06,389 --> 00:09:04,720
note that's a lot to

255
00:09:08,870 --> 00:09:06,399
pin down so you can always take a

256
00:09:11,030 --> 00:09:08,880
screenshot of that and

257
00:09:12,150 --> 00:09:11,040
let's look at the actual graph

258
00:09:15,030 --> 00:09:12,160
so

259
00:09:17,030 --> 00:09:15,040
on the y-axis we have the mean of the

260
00:09:19,269 --> 00:09:17,040
response time difference so mean of the

261
00:09:20,630 --> 00:09:19,279
congruent minus the incongruent response

262
00:09:23,590 --> 00:09:20,640
time

263
00:09:27,190 --> 00:09:23,600

and um what we have is the

264

00:09:29,509 --> 00:09:27,200

black bars are for positive

265

00:09:32,949 --> 00:09:29,519

images and the gray bars are for

266

00:09:34,870 --> 00:09:32,959

negative images so you can see overall

267

00:09:37,030 --> 00:09:34,880

that for both positive and negative but

268

00:09:39,350 --> 00:09:37,040

significantly so for negative

269

00:09:40,550 --> 00:09:39,360

you have the mean congruent response

270

00:09:43,750 --> 00:09:40,560

minus

271

00:09:45,590 --> 00:09:43,760

integrant response time

272

00:09:47,750 --> 00:09:45,600

is positive there which is the opposite

273

00:09:50,470 --> 00:09:47,760

of what daryl bem found

274

00:09:52,470 --> 00:09:50,480

you'll also see an interesting situation

275

00:09:54,230 --> 00:09:52,480

here that interactions so you could see

276

00:09:55,990 --> 00:09:54,240

that for women versus men are people who

277

00:09:57,990 --> 00:09:56,000

are more female trending versus male

278

00:09:59,829 --> 00:09:58,000

trending

279

00:10:03,030 --> 00:09:59,839

look at the relationship between

280

00:10:05,670 --> 00:10:03,040

positive and negative it's flipped

281

00:10:07,910 --> 00:10:05,680

so women are going negative for positive

282

00:10:09,509 --> 00:10:07,920

images and positive for negative images

283

00:10:11,030 --> 00:10:09,519

and men are going in the same direction

284

00:10:12,550 --> 00:10:11,040

for both although

285

00:10:15,829 --> 00:10:12,560

less positive

286

00:10:18,389 --> 00:10:15,839

for um for negative images

287

00:10:20,949 --> 00:10:18,399

the asterisks by the way refer to

288

00:10:23,030 --> 00:10:20,959

significance versus chance

289

00:10:25,750 --> 00:10:23,040

okay look at low psi belief versus high

290

00:10:27,590 --> 00:10:25,760

side belief you see a similar

291

00:10:29,269 --> 00:10:27,600

interaction pattern

292

00:10:31,509 --> 00:10:29,279

that's very intriguing and this is you

293

00:10:33,829 --> 00:10:31,519

can see why we recognized

294

00:10:34,949 --> 00:10:33,839

that this interaction term

295

00:10:37,030 --> 00:10:34,959

between

296

00:10:38,470 --> 00:10:37,040

the response time difference to the

297

00:10:39,990 --> 00:10:38,480

positive and negative was actually the

298

00:10:43,269 --> 00:10:40,000

most informative you could see in the

299

00:10:44,870 --> 00:10:43,279

data that that is in fact the situation

300

00:10:47,269 --> 00:10:44,880

so that was very intriguing to us and

301
00:10:49,670 --> 00:10:47,279

just keep in mind these

302
00:10:52,310 --> 00:10:49,680

i'm going back a slide for a second keep

303
00:10:53,269 --> 00:10:52,320

in mind the last point that psy belief

304
00:10:55,829 --> 00:10:53,279

gender

305
00:10:58,230 --> 00:10:55,839

these personality factors predicted that

306
00:10:59,430 --> 00:10:58,240

interaction term

307
00:11:01,910 --> 00:10:59,440

okay

308
00:11:03,910 --> 00:11:01,920

so now we're going to move on to oh wait

309
00:11:05,509 --> 00:11:03,920

briefly i just want to point out what

310
00:11:07,350 --> 00:11:05,519

what parts of the search principle did

311
00:11:09,829 --> 00:11:07,360

we use for psi here

312
00:11:11,030 --> 00:11:09,839

we looked we assumed small effects we

313
00:11:13,269 --> 00:11:11,040

recognized that it was early and

314

00:11:14,949 --> 00:11:13,279

exploratory we accrued data we

315

00:11:16,710 --> 00:11:14,959

recognized the diversity in the pro the

316

00:11:18,310 --> 00:11:16,720

approach just because it had previously

317

00:11:20,150 --> 00:11:18,320

been analyzed one way we didn't stick

318

00:11:21,990 --> 00:11:20,160

with that we looked at the data so we

319

00:11:23,829 --> 00:11:22,000

could understand what worked and we

320

00:11:26,150 --> 00:11:23,839

characterized without imposing we didn't

321

00:11:28,389 --> 00:11:26,160

hone in on any big results because these

322

00:11:30,230 --> 00:11:28,399

results were not profoundly

323

00:11:34,150 --> 00:11:30,240

big in terms of their statistical

324

00:11:35,430 --> 00:11:34,160

significance so we let that be

325

00:11:37,350 --> 00:11:35,440

so let's move on to conscious

326

00:11:39,829 --> 00:11:37,360

precognition

327

00:11:41,110 --> 00:11:39,839

in this experiment you're giving a well

328

00:11:42,790 --> 00:11:41,120

not experiment it's really supposed to

329

00:11:44,550 --> 00:11:42,800

be a game but it's really it's really

330

00:11:47,590 --> 00:11:44,560

kind of like an experiment right so

331

00:11:48,870 --> 00:11:47,600

you're given this spacescape on the app

332

00:11:51,190 --> 00:11:48,880

and you're supposed to predict where

333

00:11:53,350 --> 00:11:51,200

guru will be if you can see

334

00:11:56,389 --> 00:11:53,360

in the middle here there's a a little

335

00:11:58,710 --> 00:11:56,399

bit of a flying bird that's the guru

336

00:12:01,030 --> 00:11:58,720

it's just showing up on the screen and

337

00:12:02,629 --> 00:12:01,040

just before that the person will have

338

00:12:04,150 --> 00:12:02,639

picked where they think it's going to

339

00:12:06,389 --> 00:12:04,160

show up and the score

340

00:12:07,829 --> 00:12:06,399

is uh from a ranked list of possible

341

00:12:09,110 --> 00:12:07,839

distances between the point that they

342

00:12:10,710 --> 00:12:09,120

picked and the point where the guru

343

00:12:11,509 --> 00:12:10,720

showed up

344

00:12:15,990 --> 00:12:11,519

so

345

00:12:17,590 --> 00:12:16,000

we can avoid the obvious compound of

346

00:12:19,350 --> 00:12:17,600

people clicking in the middle which is

347

00:12:20,949 --> 00:12:19,360

the closest point everywhere on the

348

00:12:24,629 --> 00:12:20,959

screen and getting a high score so it

349

00:12:26,230 --> 00:12:24,639

has to be in a ranked list

350

00:12:28,310 --> 00:12:26,240

there was a little bias that we noticed

351
00:12:29,190 --> 00:12:28,320
in the data so first of all at the top

352
00:12:31,030 --> 00:12:29,200
graph

353
00:12:33,990 --> 00:12:31,040
in terms of where the master or the guru

354
00:12:37,350 --> 00:12:34,000
actually showed up it was equally split

355
00:12:39,430 --> 00:12:37,360
along all four quadrants top bottom left

356
00:12:41,509 --> 00:12:39,440
right but in terms of where people

357
00:12:43,110 --> 00:12:41,519
touched and i showed these data in 2019

358
00:12:43,990 --> 00:12:43,120
but i'm showing them again to make a

359
00:12:45,269 --> 00:12:44,000
point

360
00:12:47,990 --> 00:12:45,279
you can see

361
00:12:50,230 --> 00:12:48,000
those p values are difference from the

362
00:12:51,750 --> 00:12:50,240
above so in other words there's a

363
00:12:54,230 --> 00:12:51,760

significant difference where people

364

00:12:56,470 --> 00:12:54,240

actually touch they prefer the right

365

00:12:58,310 --> 00:12:56,480

top and then next

366

00:13:00,389 --> 00:12:58,320

the bottom right

367

00:13:03,269 --> 00:13:00,399

and then next the left bottom and then

368

00:13:04,150 --> 00:13:03,279

least of all the top left

369

00:13:06,629 --> 00:13:04,160

so

370

00:13:09,670 --> 00:13:06,639

we knew that bias exists existed but in

371

00:13:12,230 --> 00:13:09,680

this case we ignored it by taking

372

00:13:15,190 --> 00:13:12,240

just to the the score this on in this

373

00:13:17,030 --> 00:13:15,200

ranked list as our dependent variable

374

00:13:19,430 --> 00:13:17,040

we saw simple effects so first of all

375

00:13:20,230 --> 00:13:19,440

again we saw that the effects opposed

376
00:13:23,590 --> 00:13:20,240
what

377
00:13:25,670 --> 00:13:23,600
the participant was

378
00:13:27,430 --> 00:13:25,680
uh we saw no gender effects this time no

379
00:13:29,509 --> 00:13:27,440
psy belief effects

380
00:13:31,350 --> 00:13:29,519
we also saw that cyberlife side

381
00:13:32,790 --> 00:13:31,360
confidence gender openness and

382
00:13:34,790 --> 00:13:32,800
neuroticism

383
00:13:36,790 --> 00:13:34,800
predicted the score so these are

384
00:13:38,230 --> 00:13:36,800
relatively simple effects

385
00:13:40,710 --> 00:13:38,240
um and we are

386
00:13:42,629 --> 00:13:40,720
thinking that that may be because we are

387
00:13:45,509 --> 00:13:42,639
absolutely looking at exactly the score

388
00:13:48,150 --> 00:13:45,519

that we showed the user but that is the

389

00:13:49,990 --> 00:13:48,160

least biased score to use so that's why

390

00:13:51,990 --> 00:13:50,000

we did it so you can see here the

391

00:13:52,949 --> 00:13:52,000

significant expectation of opposing

392

00:13:56,230 --> 00:13:52,959

effect

393

00:13:58,310 --> 00:13:56,240

um is negative so in every case whether

394

00:14:00,470 --> 00:13:58,320

you take everyone together women men or

395

00:14:02,870 --> 00:14:00,480

you know female trading male trending

396

00:14:04,710 --> 00:14:02,880

low cyber belief or highest i believe um

397

00:14:06,949 --> 00:14:04,720

you'll see this as a negative score and

398

00:14:08,790 --> 00:14:06,959

it's significant overall but not in some

399

00:14:10,949 --> 00:14:08,800

kind of major way

400

00:14:12,629 --> 00:14:10,959

so what do we look at here we used the

401
00:14:15,430 --> 00:14:12,639
idea of small effects early in

402
00:14:17,030 --> 00:14:15,440
exploratory and accruing data

403
00:14:18,949 --> 00:14:17,040
so that's it for that one that was not

404
00:14:21,189 --> 00:14:18,959
that exciting but it was at least it

405
00:14:23,910 --> 00:14:21,199
confirmed this idea that effects often

406
00:14:25,990 --> 00:14:23,920
oppose our expectations

407
00:14:28,150 --> 00:14:26,000
conscious micro pk this is the heart

408
00:14:31,350 --> 00:14:28,160
quest in the last of the three

409
00:14:32,870 --> 00:14:31,360
games or experiments on the sci-3 app

410
00:14:35,350 --> 00:14:32,880
so what you do here is you touch the

411
00:14:37,110 --> 00:14:35,360
screen to make the robot's heart blow if

412
00:14:39,670 --> 00:14:37,120
you have the sound on it'll also make a

413
00:14:42,629 --> 00:14:39,680

tingly sound and it can glow either a

414

00:14:45,030 --> 00:14:42,639

little bit or a lot or not at all

415

00:14:46,710 --> 00:14:45,040

and that is based on the score so the

416

00:14:48,949 --> 00:14:46,720

score is calculated

417

00:14:50,790 --> 00:14:48,959

um based on the relationship between the

418

00:14:53,030 --> 00:14:50,800

trial and reference bits let me explain

419

00:14:54,710 --> 00:14:53,040

what trial and reference bits are so

420

00:14:56,470 --> 00:14:54,720

when you start the game

421

00:14:58,629 --> 00:14:56,480

reference bits get calculated from the

422

00:15:00,310 --> 00:14:58,639

random number generator and there's two

423

00:15:01,750 --> 00:15:00,320

of them so in this case at the bottom of

424

00:15:03,430 --> 00:15:01,760

the screen you could see i've i've

425

00:15:05,430 --> 00:15:03,440

decided that the reference bits were

426

00:15:07,509 --> 00:15:05,440

zero one okay so there's just two of

427

00:15:09,110 --> 00:15:07,519

them it's either zero and a or a one in

428

00:15:11,590 --> 00:15:09,120

each position

429

00:15:13,350 --> 00:15:11,600

um on every trial

430

00:15:15,509 --> 00:15:13,360

new reference bits get calculated in

431

00:15:17,670 --> 00:15:15,519

other words after the person presses the

432

00:15:19,750 --> 00:15:17,680

screen new reference bids are calculated

433

00:15:21,509 --> 00:15:19,760

for the random number generator

434

00:15:23,829 --> 00:15:21,519

so you could see here in the first trial

435

00:15:26,230 --> 00:15:23,839

the ref i mean i'm sorry trial bits

436

00:15:28,710 --> 00:15:26,240

are 0 0 second trial trial bits are zero

437

00:15:30,629 --> 00:15:28,720

one third trial is one one and fourth

438

00:15:32,389 --> 00:15:30,639

trial it's one zero these are all

439

00:15:34,310 --> 00:15:32,399

compared to the reference bits which

440

00:15:36,470 --> 00:15:34,320

remain the same throughout the game

441

00:15:38,550 --> 00:15:36,480

so you could get a score of one if one

442

00:15:40,870 --> 00:15:38,560

of those bits matches you could get a

443

00:15:42,470 --> 00:15:40,880

score of two if both of them match

444

00:15:43,269 --> 00:15:42,480

and a score of zero if neither of them

445

00:15:45,189 --> 00:15:43,279

match

446

00:15:47,749 --> 00:15:45,199

and that's what indicates one two or

447

00:15:49,670 --> 00:15:47,759

zero that's what indicates whether

448

00:15:52,629 --> 00:15:49,680

uh the heart

449

00:15:54,949 --> 00:15:52,639

will glow and whether the app will sing

450

00:15:57,030 --> 00:15:54,959

if it's zero nothing happens if it's one

451
00:15:58,710 --> 00:15:57,040
there's a little bit if it's two it's

452
00:16:01,350 --> 00:15:58,720
like lee

453
00:16:03,749 --> 00:16:01,360
so that's the task

454
00:16:05,430 --> 00:16:03,759
this one was super interesting um so

455
00:16:07,990 --> 00:16:05,440
first of all no effect for the score

456
00:16:10,949 --> 00:16:08,000
that we showed the participants

457
00:16:13,910 --> 00:16:10,959
and nothing going on with trial bits

458
00:16:16,150 --> 00:16:13,920
and yet a huge effect for reference bits

459
00:16:18,629 --> 00:16:16,160
in other words we thought

460
00:16:20,629 --> 00:16:18,639
people would be trying to match

461
00:16:23,590 --> 00:16:20,639
reference and trial bits to increase

462
00:16:26,470 --> 00:16:23,600
their score what happened was

463
00:16:28,150 --> 00:16:26,480

apparently people were changing the

464

00:16:29,110 --> 00:16:28,160

proportion of zeros and the reference

465

00:16:31,350 --> 00:16:29,120

bits

466

00:16:32,710 --> 00:16:31,360

to try to change their score not what we

467

00:16:36,310 --> 00:16:32,720

thought and not what we told them the

468

00:16:37,670 --> 00:16:36,320

task was about but that's what happened

469

00:16:40,949 --> 00:16:37,680

and

470

00:16:43,189 --> 00:16:40,959

um the the app uses the same exact

471

00:16:45,509 --> 00:16:43,199

function to call to create the

472

00:16:47,990 --> 00:16:45,519

reference and the trial bits and so we

473

00:16:50,069 --> 00:16:48,000

cannot blame it on that function

474

00:16:52,710 --> 00:16:50,079

um because they showed very different

475

00:16:54,310 --> 00:16:52,720

effects um there was a big gender effect

476
00:16:57,269 --> 00:16:54,320
for reference bits

477
00:16:58,790 --> 00:16:57,279
and uh we ended up with a dependent

478
00:17:00,389 --> 00:16:58,800
variable that was the first reference

479
00:17:02,550 --> 00:17:00,399
spent light on this minus the second

480
00:17:04,549 --> 00:17:02,560
reference bit and psy belief

481
00:17:06,470 --> 00:17:04,559
age openness conscientiousness

482
00:17:08,069 --> 00:17:06,480
extroversion all predicted that

483
00:17:09,990 --> 00:17:08,079
interaction

484
00:17:11,590 --> 00:17:10,000
so we did a pre-registered confirmatory

485
00:17:13,029 --> 00:17:11,600
analysis and that confirmed the

486
00:17:15,829 --> 00:17:13,039
reference bit effect

487
00:17:17,990 --> 00:17:15,839
and the gender difference although in

488
00:17:20,309 --> 00:17:18,000

one sense the gender difference opposed

489

00:17:22,710 --> 00:17:20,319

the pre-registered analysis and in a

490

00:17:24,390 --> 00:17:22,720

different sense it replicated it and i

491

00:17:25,829 --> 00:17:24,400

will explain

492

00:17:27,510 --> 00:17:25,839

so here's the

493

00:17:29,510 --> 00:17:27,520

data batch one

494

00:17:30,710 --> 00:17:29,520

in which we first saw the reference bit

495

00:17:33,029 --> 00:17:30,720

effect

496

00:17:35,190 --> 00:17:33,039

here we have a proportion of zeros in

497

00:17:37,350 --> 00:17:35,200

each reference bit

498

00:17:40,070 --> 00:17:37,360

on the y-axis and then we have all

499

00:17:42,710 --> 00:17:40,080

trials this is a trial level analysis of

500

00:17:43,750 --> 00:17:42,720

all trials trials for women and trials

501
00:17:46,230 --> 00:17:43,760
from men

502
00:17:48,230 --> 00:17:46,240
so again the software function that

503
00:17:50,310 --> 00:17:48,240
creates the reference bits and the trial

504
00:17:52,150 --> 00:17:50,320
bits is exactly the same it's just

505
00:17:55,029 --> 00:17:52,160
called at different times

506
00:17:57,750 --> 00:17:55,039
and so the fact that this line at point

507
00:17:59,590 --> 00:17:57,760
five which represents chance

508
00:18:01,669 --> 00:17:59,600
is not exceeded

509
00:18:03,750 --> 00:18:01,679
by the trial bits but is definitely

510
00:18:05,909 --> 00:18:03,760
exceeded significantly by the reference

511
00:18:08,070 --> 00:18:05,919
bits for both the first and second

512
00:18:09,710 --> 00:18:08,080
reference bits overall

513
00:18:12,950 --> 00:18:09,720

suggest that there's some

514

00:18:14,950 --> 00:18:12,960

micropsychokinesis going on in that area

515

00:18:17,190 --> 00:18:14,960

so look at the trials for women in the

516

00:18:19,029 --> 00:18:17,200

trials for men it looks like

517

00:18:21,190 --> 00:18:19,039

trials from women

518

00:18:23,029 --> 00:18:21,200

are having a huge effect in other words

519

00:18:25,430 --> 00:18:23,039

women are really pulling this micro

520

00:18:26,950 --> 00:18:25,440

psychokinesis effect and men are barely

521

00:18:29,110 --> 00:18:26,960

pulling it and it's only in the first

522

00:18:31,190 --> 00:18:29,120

reference bit that they're pulling it

523

00:18:33,430 --> 00:18:31,200

so let's go back to let's go to data

524

00:18:35,270 --> 00:18:33,440

batch two so we registered an analysis

525

00:18:36,870 --> 00:18:35,280

we pre-registered this analysis and then

526

00:18:38,549 --> 00:18:36,880

we looked at these data

527

00:18:41,750 --> 00:18:38,559

and again we have the same effects

528

00:18:44,630 --> 00:18:41,760

reference bits um

529

00:18:46,789 --> 00:18:44,640

uh both reference bit one and two we see

530

00:18:48,789 --> 00:18:46,799

significantly more zeros than chance but

531

00:18:50,630 --> 00:18:48,799

the trial bits nope

532

00:18:52,310 --> 00:18:50,640

um we look at trials for women let's

533

00:18:53,270 --> 00:18:52,320

look at the previous data match for a

534

00:18:56,470 --> 00:18:53,280

second

535

00:18:59,110 --> 00:18:56,480

same situation first reference

536

00:19:01,110 --> 00:18:59,120

has a lower value proportion zeros than

537

00:19:02,950 --> 00:19:01,120

the second reference spin but they're

538

00:19:05,830 --> 00:19:02,960

both above chance

539

00:19:08,070 --> 00:19:05,840

but let's look at data batch one again

540

00:19:09,750 --> 00:19:08,080

for men we just had a measly effect

541

00:19:11,510 --> 00:19:09,760

there and it was only in the first

542

00:19:12,630 --> 00:19:11,520

reference bit

543

00:19:14,310 --> 00:19:12,640

here

544

00:19:15,990 --> 00:19:14,320

we have a big effect

545

00:19:18,950 --> 00:19:16,000

it is still greater in the first

546

00:19:20,630 --> 00:19:18,960

reference bit so the question is

547

00:19:22,310 --> 00:19:20,640

what do you want to call the pattern and

548

00:19:23,270 --> 00:19:22,320

this comes to trying to characterize

549

00:19:25,430 --> 00:19:23,280

things

550

00:19:27,669 --> 00:19:25,440

in the pre-registration we called the

551
00:19:30,070 --> 00:19:27,679
fact that women were significantly seem

552
00:19:32,150 --> 00:19:30,080
to be significantly producing more zeros

553
00:19:33,750 --> 00:19:32,160
in the either reference but then then

554
00:19:35,830 --> 00:19:33,760
and especially the second reference but

555
00:19:38,310 --> 00:19:35,840
we called that the effect and that did

556
00:19:39,669 --> 00:19:38,320
not replicate but what did replicate was

557
00:19:43,830 --> 00:19:39,679
this

558
00:19:48,789 --> 00:19:46,630
so that reminds us of that it's really

559
00:19:49,830 --> 00:19:48,799
important to improve more data

560
00:19:51,750 --> 00:19:49,840
really important to recognize the

561
00:19:53,590 --> 00:19:51,760
diversity and approach to characterize

562
00:19:55,830 --> 00:19:53,600
not impose and then hone in on the big

563
00:19:58,310 --> 00:19:55,840

results what replicates what doesn't and

564

00:19:59,510 --> 00:19:58,320

what actually is the effect

565

00:20:01,190 --> 00:19:59,520

sometimes you're not right about

566

00:20:03,590 --> 00:20:01,200

choosing the effect the first time right

567

00:20:05,430 --> 00:20:03,600

so then you go okay well what about this

568

00:20:07,669 --> 00:20:05,440

keep going

569

00:20:10,070 --> 00:20:07,679

okay so we talked about the first three

570

00:20:12,470 --> 00:20:10,080

online sci tests withdrawal force choice

571

00:20:14,789 --> 00:20:12,480

the last online site test is also forced

572

00:20:17,190 --> 00:20:14,799

choice but it's based on a precognitive

573

00:20:18,630 --> 00:20:17,200

remote viewing task

574

00:20:19,510 --> 00:20:18,640

this is a website

575

00:20:22,070 --> 00:20:19,520

based

576

00:20:24,390 --> 00:20:22,080

task with significantly fewer unique

577

00:20:27,669 --> 00:20:24,400

logins but they were very committed this

578

00:20:29,430 --> 00:20:27,679

is a one trial task and it was based on

579

00:20:31,430 --> 00:20:29,440

i wrote this book with teresa chung

580

00:20:33,270 --> 00:20:31,440

called the premonition code and it was

581

00:20:35,590 --> 00:20:33,280

based on the idea of using the book to

582

00:20:37,830 --> 00:20:35,600

bring people to this website so that

583

00:20:39,990 --> 00:20:37,840

they could do this experiment

584

00:20:41,110 --> 00:20:40,000

and the way it works

585

00:20:43,750 --> 00:20:41,120

is it has

586

00:20:46,070 --> 00:20:43,760

six steps i'm not going to show all six

587

00:20:48,549 --> 00:20:46,080

but it brings people through

588

00:20:50,549 --> 00:20:48,559

a single trial

589

00:20:52,149 --> 00:20:50,559

called controlled precognition which is

590

00:20:53,590 --> 00:20:52,159

really precognitive remote viewing what

591

00:20:55,190 --> 00:20:53,600

you're trying to do

592

00:20:57,110 --> 00:20:55,200

is get information

593

00:20:59,510 --> 00:20:57,120

about a future image

594

00:21:01,990 --> 00:20:59,520

before that image is shown to you

595

00:21:03,430 --> 00:21:02,000

and it takes you through these steps

596

00:21:05,750 --> 00:21:03,440

physical uh physical preparation

597

00:21:07,430 --> 00:21:05,760

practical preparation mental preparation

598

00:21:10,070 --> 00:21:07,440

making sure you write everything down

599

00:21:11,909 --> 00:21:10,080

doing scans it's a long process the

600

00:21:13,430 --> 00:21:11,919

actual user of the website does not have

601
00:21:15,029 --> 00:21:13,440
to do this process they could click

602
00:21:17,270 --> 00:21:15,039
through these buttons

603
00:21:20,149 --> 00:21:17,280
by pressing the word future

604
00:21:21,190 --> 00:21:20,159
multiple times it will take them a few

605
00:21:23,029 --> 00:21:21,200
seconds

606
00:21:25,590 --> 00:21:23,039
to get to the actual

607
00:21:27,830 --> 00:21:25,600
task that records their response that's

608
00:21:30,230 --> 00:21:27,840
this one most people whoever did not

609
00:21:31,669 --> 00:21:30,240
they actually did a lot of what we asked

610
00:21:33,669 --> 00:21:31,679
them to do as far as we could tell in

611
00:21:36,789 --> 00:21:33,679
terms of the time it took for them to

612
00:21:39,430 --> 00:21:36,799
start and then to get to this this page

613
00:21:41,909 --> 00:21:39,440

so this task says your next your next

614

00:21:43,110 --> 00:21:41,919

step is to experience the target so what

615

00:21:45,350 --> 00:21:43,120

happens is

616

00:21:47,190 --> 00:21:45,360

two images are being chosen from a

617

00:21:49,510 --> 00:21:47,200

database of images

618

00:21:51,430 --> 00:21:49,520

and they are designed to be pairs that

619

00:21:53,029 --> 00:21:51,440

are mutually exclusive in terms of what

620

00:21:54,710 --> 00:21:53,039

they contain

621

00:21:56,149 --> 00:21:54,720

so these are the graphs representing

622

00:21:58,149 --> 00:21:56,159

what they contain what we're trying not

623

00:22:00,310 --> 00:21:58,159

to do here is show people the images

624

00:22:02,390 --> 00:22:00,320

because what can happen

625

00:22:04,070 --> 00:22:02,400

is that when you show people the images

626

00:22:06,149 --> 00:22:04,080

and you say which was your session which

627

00:22:07,029 --> 00:22:06,159

was your remote viewing session most

628

00:22:08,950 --> 00:22:07,039

like

629

00:22:10,310 --> 00:22:08,960

people can get aspects of both images

630

00:22:11,909 --> 00:22:10,320

because they're looking at the images

631

00:22:14,070 --> 00:22:11,919

even though they're not really the

632

00:22:16,390 --> 00:22:14,080

target yet so we're trying to get around

633

00:22:19,590 --> 00:22:16,400

that by showing these graphs and saying

634

00:22:21,350 --> 00:22:19,600

which graph represents the contents of

635

00:22:23,190 --> 00:22:21,360

what you think is in the target based on

636

00:22:25,430 --> 00:22:23,200

your remote viewing session

637

00:22:27,830 --> 00:22:25,440

so you can see that on the left we have

638

00:22:30,789 --> 00:22:27,840

vegetation and or food

639

00:22:33,350 --> 00:22:30,799

hills mountains and or rocks water

640

00:22:35,190 --> 00:22:33,360

fluids animals humans and our likeness

641

00:22:36,870 --> 00:22:35,200

and on the right we have

642

00:22:38,950 --> 00:22:36,880

words symbols

643

00:22:40,390 --> 00:22:38,960

and or ideas so that's those are these

644

00:22:42,070 --> 00:22:40,400

these are the choices it's either going

645

00:22:44,310 --> 00:22:42,080

to be just word symbols or ideas or it's

646

00:22:45,990 --> 00:22:44,320

going to be some kind of nature scene

647

00:22:47,430 --> 00:22:46,000

and we don't know which yet and the

648

00:22:49,830 --> 00:22:47,440

random number generator also doesn't

649

00:22:51,510 --> 00:22:49,840

know which yet the person has to choose

650

00:22:52,950 --> 00:22:51,520

after the person chooses there's no way

651
00:22:54,390 --> 00:22:52,960
to go back

652
00:22:56,149 --> 00:22:54,400
triggers the random number generator

653
00:22:57,909 --> 00:22:56,159
which in this case is based on network

654
00:22:59,669 --> 00:22:57,919
traffic

655
00:23:01,830 --> 00:22:59,679
to choose one of those two targets it

656
00:23:03,510 --> 00:23:01,840
turns out it was this little one with i

657
00:23:05,110 --> 00:23:03,520
don't know if you can see this little uh

658
00:23:06,710 --> 00:23:05,120
jellyfish there

659
00:23:09,110 --> 00:23:06,720
but that's the living being and then the

660
00:23:11,430 --> 00:23:09,120
water with the rocks

661
00:23:13,510 --> 00:23:11,440
so you're either correct or incorrect

662
00:23:15,430 --> 00:23:13,520
and at the base of the screen it says

663
00:23:17,270 --> 00:23:15,440

remember to send loving feelings back to

664

00:23:19,350 --> 00:23:17,280

yourself while you were working

665

00:23:21,430 --> 00:23:19,360

i actually added that in there because

666

00:23:22,950 --> 00:23:21,440

it turns out from a different set of

667

00:23:25,029 --> 00:23:22,960

experiments i think i spoke about these

668

00:23:27,510 --> 00:23:25,039

last you know in 2019

669

00:23:30,149 --> 00:23:27,520

that feeling unconditional love could

670

00:23:31,830 --> 00:23:30,159

actually seems to be able to support

671

00:23:33,590 --> 00:23:31,840

your ability to do this precognitive

672

00:23:35,430 --> 00:23:33,600

remote viewing task at least in

673

00:23:36,789 --> 00:23:35,440

preliminary experiments so working on

674

00:23:38,070 --> 00:23:36,799

that now

675

00:23:39,990 --> 00:23:38,080

thanks to a grant from the yellow

676
00:23:41,029 --> 00:23:40,000
foundation

677
00:23:42,470 --> 00:23:41,039
so

678
00:23:44,950 --> 00:23:42,480
what do we have

679
00:23:47,190 --> 00:23:44,960
so first of all we have complex effects

680
00:23:48,950 --> 00:23:47,200
so overall effects are opposing the

681
00:23:51,750 --> 00:23:48,960
presumed conscious intent which is to be

682
00:23:53,430 --> 00:23:51,760
correct we also have time course effects

683
00:23:55,750 --> 00:23:53,440
sex at birth effects and a

684
00:23:57,510 --> 00:23:55,760
pre-registered confirmatory analysis

685
00:23:59,750 --> 00:23:57,520
that actually confirms that the

686
00:24:02,310 --> 00:23:59,760
interestingness of the target is related

687
00:24:04,390 --> 00:24:02,320
to accuracy the more interesting targets

688
00:24:08,230 --> 00:24:04,400

people are more accurate at doing that

689

00:24:11,830 --> 00:24:10,070

let's look at the first five trials so

690

00:24:14,310 --> 00:24:11,840

these are data from everyone who did at

691

00:24:16,630 --> 00:24:14,320

least five trials

692

00:24:18,549 --> 00:24:16,640

looking at two different data batches we

693

00:24:21,269 --> 00:24:18,559

see the blue line

694

00:24:23,990 --> 00:24:21,279

is the first batch and the dotted or the

695

00:24:25,990 --> 00:24:24,000

dashed green line is in the second box

696

00:24:28,549 --> 00:24:26,000

batch and you could see the mean

697

00:24:31,909 --> 00:24:28,559

proportion correct on the y-axis the 0.5

698

00:24:33,110 --> 00:24:31,919

red line is its chance so your 50 chance

699

00:24:35,350 --> 00:24:33,120

of getting it right

700

00:24:37,510 --> 00:24:35,360

the interesting thing here to me is that

701
00:24:39,590 --> 00:24:37,520
on trial three for both

702
00:24:41,830 --> 00:24:39,600
the first and the second batch

703
00:24:43,590 --> 00:24:41,840
is the time when people were more likely

704
00:24:45,510 --> 00:24:43,600
to get this correct

705
00:24:46,789 --> 00:24:45,520
now this doesn't control for how long it

706
00:24:48,470 --> 00:24:46,799
was between

707
00:24:49,430 --> 00:24:48,480
their trials it could be all on the same

708
00:24:50,630 --> 00:24:49,440
day

709
00:24:53,750 --> 00:24:50,640
it could be

710
00:24:55,350 --> 00:24:53,760
you know 10 10 weeks apart right

711
00:24:57,909 --> 00:24:55,360
i mean we really don't know right this

712
00:24:59,909 --> 00:24:57,919
is everyone's third trial

713
00:25:01,350 --> 00:24:59,919

but it reminds me that on the first

714

00:25:03,510 --> 00:25:01,360

trial you're either getting it correct

715

00:25:05,750 --> 00:25:03,520

or incorrect the second trial you're

716

00:25:08,070 --> 00:25:05,760

having an emotional response to that

717

00:25:09,510 --> 00:25:08,080

whatever it was and then the third trial

718

00:25:11,190 --> 00:25:09,520

you're i think you're more likely to be

719

00:25:14,149 --> 00:25:11,200

kind of letting go

720

00:25:17,110 --> 00:25:14,159

so that's my interpretation who knows

721

00:25:19,190 --> 00:25:17,120

interesting to see if that replicates

722

00:25:21,750 --> 00:25:19,200

session duration effects so we were very

723

00:25:23,590 --> 00:25:21,760

curious the time that it took between

724

00:25:26,789 --> 00:25:23,600

pressing the start button and going

725

00:25:28,390 --> 00:25:26,799

through all those six steps to

726

00:25:30,470 --> 00:25:28,400

choosing one of those graphs

727

00:25:33,350 --> 00:25:30,480

we were wondering if that had any impact

728

00:25:35,430 --> 00:25:33,360

on how people's performance

729

00:25:37,430 --> 00:25:35,440

moved or changed over time so

730

00:25:39,029 --> 00:25:37,440

let's look here at about

731

00:25:40,070 --> 00:25:39,039

in the in the first batch we have the

732

00:25:43,269 --> 00:25:40,080

blue

733

00:25:46,630 --> 00:25:43,279

terms of proportion correct on the

734

00:25:48,950 --> 00:25:46,640

y-axis the second batch is the is uh

735

00:25:52,230 --> 00:25:48,960

this dash green line again

736

00:25:54,390 --> 00:25:52,240

50 correct is chance so this doesn't

737

00:25:56,950 --> 00:25:54,400

replicate so in the first batch they're

738

00:25:58,789 --> 00:25:56,960

doing better than chance right between

739

00:25:59,909 --> 00:25:58,799

five and eight

740

00:26:01,830 --> 00:25:59,919

minutes

741

00:26:03,190 --> 00:26:01,840

and on the second batch they're doing

742

00:26:06,149 --> 00:26:03,200

significantly worse than chance so

743

00:26:07,669 --> 00:26:06,159

that's kind of probably spurious the

744

00:26:10,390 --> 00:26:07,679

thing that's very interesting is for

745

00:26:11,669 --> 00:26:10,400

both batches right between 20 and 25

746

00:26:13,350 --> 00:26:11,679

minutes

747

00:26:14,870 --> 00:26:13,360

session duration

748

00:26:16,870 --> 00:26:14,880

they were worse

749

00:26:18,390 --> 00:26:16,880

than any other time now that's just

750

00:26:19,909 --> 00:26:18,400

quantitative in the first match and

751
00:26:21,350 --> 00:26:19,919
that's significantly worse than chance

752
00:26:22,950 --> 00:26:21,360
in the second batch

753
00:26:24,230 --> 00:26:22,960
so

754
00:26:25,669 --> 00:26:24,240
and you in fact you can see here that

755
00:26:28,549 --> 00:26:25,679
performance in the second batch was

756
00:26:31,110 --> 00:26:28,559
generally worse than chance um

757
00:26:33,190 --> 00:26:31,120
what's interesting about that to me is

758
00:26:34,950 --> 00:26:33,200
that there's an intentional

759
00:26:37,269 --> 00:26:34,960
shift around

760
00:26:38,950 --> 00:26:37,279
15 20 25 minutes

761
00:26:42,390 --> 00:26:38,960
that people talk about

762
00:26:44,070 --> 00:26:42,400
um in in learning in medical students in

763
00:26:45,669 --> 00:26:44,080

in all sorts of contexts where you're

764

00:26:47,350 --> 00:26:45,679

trying to get people to pay attention in

765

00:26:49,190 --> 00:26:47,360

naturalistic settings

766

00:26:53,350 --> 00:26:49,200

there's an intentional shift around that

767

00:26:55,909 --> 00:26:53,360

time and it just makes me wonder if um

768

00:26:57,510 --> 00:26:55,919

when you stop a session right at the

769

00:26:59,669 --> 00:26:57,520

time your attention is shifting and then

770

00:27:02,390 --> 00:26:59,679

you choose which of these two graphs

771

00:27:04,630 --> 00:27:02,400

that those data match with those that

772

00:27:06,149 --> 00:27:04,640

the session data match with it might be

773

00:27:07,990 --> 00:27:06,159

an attentional flip that actually

774

00:27:09,430 --> 00:27:08,000

doesn't serve you so

775

00:27:12,470 --> 00:27:09,440

again that

776
00:27:14,710 --> 00:27:12,480
needs more understanding

777
00:27:17,350 --> 00:27:14,720
the sex at birth effects were super

778
00:27:19,630 --> 00:27:17,360
interesting and it suggests that

779
00:27:22,149 --> 00:27:19,640
um women are in fact using

780
00:27:23,669 --> 00:27:22,159
micropsychokinesis to make themselves

781
00:27:24,789 --> 00:27:23,679
worse

782
00:27:26,710 --> 00:27:24,799
okay

783
00:27:29,190 --> 00:27:26,720
great so we have

784
00:27:31,590 --> 00:27:29,200
um females and i'm calling

785
00:27:33,909 --> 00:27:31,600
i'm calling them females because they

786
00:27:35,590 --> 00:27:33,919
said that their sex at birth was female

787
00:27:37,990 --> 00:27:35,600
and the ones who are calling males they

788
00:27:39,510 --> 00:27:38,000

said their sex at birth was male so

789

00:27:41,269 --> 00:27:39,520

that's how that's going

790

00:27:43,269 --> 00:27:41,279

um we have three columns here the

791

00:27:45,190 --> 00:27:43,279

proportion the grand mean proportion

792

00:27:47,510 --> 00:27:45,200

correct the brand means for the

793

00:27:49,269 --> 00:27:47,520

targets that were selected and the grand

794

00:27:51,350 --> 00:27:49,279

mean for the targets that were presented

795

00:27:52,389 --> 00:27:51,360

let me explain the difference

796

00:27:54,950 --> 00:27:52,399

but first

797

00:27:56,630 --> 00:27:54,960

show that first effect women

798

00:27:58,630 --> 00:27:56,640

across the board regardless of what was

799

00:28:00,470 --> 00:27:58,640

selected and was presented

800

00:28:01,430 --> 00:28:00,480

are performing significantly worse than

801
00:28:03,510 --> 00:28:01,440
men

802
00:28:05,350 --> 00:28:03,520
and that and they're performing

803
00:28:06,230 --> 00:28:05,360
significantly worse than chance

804
00:28:08,310 --> 00:28:06,240
okay

805
00:28:10,389 --> 00:28:08,320
so let's go to selected versus presented

806
00:28:12,950 --> 00:28:10,399
so you can understand this difference

807
00:28:14,830 --> 00:28:12,960
selected means the software is actually

808
00:28:17,909 --> 00:28:14,840
selecting

809
00:28:21,110 --> 00:28:17,919
um one of these uh one of these two

810
00:28:23,269 --> 00:28:21,120
positions for the graph that for the

811
00:28:25,430 --> 00:28:23,279
image that will be presented so remember

812
00:28:29,430 --> 00:28:25,440
we have

813
00:28:31,590 --> 00:28:29,440

right

814

00:28:33,830 --> 00:28:31,600

and the software after people are

815

00:28:35,430 --> 00:28:33,840

selecting a or b the software is

816

00:28:38,230 --> 00:28:35,440

selecting an image that is represented

817

00:28:39,669 --> 00:28:38,240

by this or this right

818

00:28:43,269 --> 00:28:39,679

so

819

00:28:45,190 --> 00:28:43,279

people generally want to select

820

00:28:47,110 --> 00:28:45,200

the first position whether it's on the

821

00:28:49,510 --> 00:28:47,120

top of their screen or on the left they

822

00:28:51,510 --> 00:28:49,520

want to select the first position

823

00:28:53,110 --> 00:28:51,520

so this is the proportion of people who

824

00:28:54,950 --> 00:28:53,120

actually selected

825

00:28:56,710 --> 00:28:54,960

the second position

826

00:28:57,990 --> 00:28:56,720

in this graph because i had to choose

827

00:29:00,630 --> 00:28:58,000

one of those positions because of the

828

00:29:02,789 --> 00:29:00,640

bias so look at the second position

829

00:29:04,710 --> 00:29:02,799

women are significantly

830

00:29:07,350 --> 00:29:04,720

less likely than chance

831

00:29:09,990 --> 00:29:07,360

to select the second position men are

832

00:29:11,669 --> 00:29:10,000

also but but less impressively

833

00:29:13,029 --> 00:29:11,679

also less likely than a chance to choose

834

00:29:14,710 --> 00:29:13,039

the second position what does the

835

00:29:16,710 --> 00:29:14,720

software do

836

00:29:18,710 --> 00:29:16,720

for women

837

00:29:20,789 --> 00:29:18,720

it's choosing

838

00:29:22,470 --> 00:29:20,799

um the actual

839

00:29:25,269 --> 00:29:22,480

what it should be doing it's producing

840

00:29:27,269 --> 00:29:25,279

this nice split between first and second

841

00:29:29,909 --> 00:29:27,279

position right that's the actual

842

00:29:31,669 --> 00:29:29,919

software uh present presentation of the

843

00:29:33,590 --> 00:29:31,679

targets

844

00:29:35,430 --> 00:29:33,600

what is it doing for men

845

00:29:38,149 --> 00:29:35,440

it's actually choosing

846

00:29:39,590 --> 00:29:38,159

the second position less in other words

847

00:29:41,430 --> 00:29:39,600

okay so you can interpret this either

848

00:29:43,830 --> 00:29:41,440

way so women are either making things

849

00:29:46,070 --> 00:29:43,840

worse by making the software behave in a

850

00:29:47,909 --> 00:29:46,080

non-biased way or men are making things

851

00:29:50,870 --> 00:29:47,919

better for themselves by having the

852

00:29:53,510 --> 00:29:50,880

software behave according to their bias

853

00:29:55,269 --> 00:29:53,520

either way interesting interactions

854

00:29:56,950 --> 00:29:55,279

with sex at birth

855

00:29:59,350 --> 00:29:56,960

and their performance here especially

856

00:30:02,950 --> 00:29:59,360

related to what they're choosing versus

857

00:30:07,110 --> 00:30:05,190

just another task reminder for this next

858

00:30:08,630 --> 00:30:07,120

section on interestingness it's really

859

00:30:10,950 --> 00:30:08,640

important to get it that this is a

860

00:30:12,549 --> 00:30:10,960

binary choice

861

00:30:14,710 --> 00:30:12,559

and at the same time you do see this

862

00:30:16,230 --> 00:30:14,720

information on the screen you just don't

863

00:30:17,350 --> 00:30:16,240

know which of these is going to be the

864

00:30:18,470 --> 00:30:17,360

target

865

00:30:20,710 --> 00:30:18,480

okay

866

00:30:23,190 --> 00:30:20,720

so we did an interestingness analysis

867

00:30:26,389 --> 00:30:23,200

because people have said

868

00:30:27,909 --> 00:30:26,399

that in remote viewing the luminosity or

869

00:30:29,430 --> 00:30:27,919

the interestingness

870

00:30:31,110 --> 00:30:29,440

which aren't necessarily the same thing

871

00:30:32,549 --> 00:30:31,120

but in this in this particular

872

00:30:36,549 --> 00:30:32,559

conversation i'm just going to conflate

873

00:30:38,230 --> 00:30:36,559

them um actually support accuracy so

874

00:30:40,870 --> 00:30:38,240

more interesting targets are actually

875

00:30:42,389 --> 00:30:40,880

easier to describe for a remote viewer

876

00:30:44,470 --> 00:30:42,399

so i wanted to test this out or we

877

00:30:46,870 --> 00:30:44,480

wanted to test this out and if you look

878

00:30:48,310 --> 00:30:46,880

at the y-axis what we have here is the

879

00:30:51,029 --> 00:30:48,320

proportion

880

00:30:53,510 --> 00:30:51,039

of the targets presented to a bunch of

881

00:30:56,470 --> 00:30:53,520

amazon mechanical turk workers that were

882

00:30:58,950 --> 00:30:56,480

rated interesting

883

00:31:00,310 --> 00:30:58,960

for these two situations

884

00:31:04,070 --> 00:31:00,320

dark blue

885

00:31:05,669 --> 00:31:04,080

is the trials that were correct

886

00:31:08,389 --> 00:31:05,679

and

887

00:31:09,990 --> 00:31:08,399

blue outline or white bars the trials

888

00:31:11,509 --> 00:31:10,000

that were incorrect these aren't all

889

00:31:12,710 --> 00:31:11,519

trials by the way the i actually took

890

00:31:15,110 --> 00:31:12,720

the top

891

00:31:17,190 --> 00:31:15,120

eight um targets that were most likely

892

00:31:19,509 --> 00:31:17,200

to be correct and the top eight targets

893

00:31:21,830 --> 00:31:19,519

that were most likely to be incorrect

894

00:31:23,029 --> 00:31:21,840

so that we could look at consistent data

895

00:31:24,950 --> 00:31:23,039

so there are certain targets that people

896

00:31:26,470 --> 00:31:24,960

kept getting right certain targets that

897

00:31:28,070 --> 00:31:26,480

people kept getting wrong

898

00:31:30,389 --> 00:31:28,080

these were all presented in that second

899

00:31:32,070 --> 00:31:30,399

position again the unbiased place to

900

00:31:33,430 --> 00:31:32,080

look for

901
00:31:34,950 --> 00:31:33,440
these results

902
00:31:37,350 --> 00:31:34,960
so what you can see is when you take all

903
00:31:38,870 --> 00:31:37,360
data together the proportion of the ones

904
00:31:40,230 --> 00:31:38,880
that were correct more likely to be

905
00:31:42,710 --> 00:31:40,240
correct or rated

906
00:31:44,070 --> 00:31:42,720
significantly more interesting by these

907
00:31:45,110 --> 00:31:44,080
judges who had no idea about the

908
00:31:46,710 --> 00:31:45,120
experiment they were just looking at

909
00:31:49,509 --> 00:31:46,720
pictures and rating them

910
00:31:51,269 --> 00:31:49,519
um then the ones that were

911
00:31:53,750 --> 00:31:51,279
more likely to be incorrect

912
00:31:55,909 --> 00:31:53,760
let's take out the words because if you

913
00:31:56,789 --> 00:31:55,919

look at this

914

00:31:58,950 --> 00:31:56,799

people

915

00:32:00,549 --> 00:31:58,960

this just looks like i don't want to

916

00:32:01,830 --> 00:32:00,559

pick this one i want to pick this one

917

00:32:03,590 --> 00:32:01,840

there's more stuff going on and it's

918

00:32:05,590 --> 00:32:03,600

more likely to match my session so

919

00:32:07,669 --> 00:32:05,600

people will have a bias there it's not

920

00:32:09,669 --> 00:32:07,679

actually going to match the bias of

921

00:32:11,110 --> 00:32:09,679

the software and it doesn't but i just

922

00:32:12,630 --> 00:32:11,120

checked out what if we just took out the

923

00:32:14,549 --> 00:32:12,640

words you see the same effect but it's

924

00:32:15,590 --> 00:32:14,559

not significant

925

00:32:17,350 --> 00:32:15,600

take out

926
00:32:19,110 --> 00:32:17,360

look at only

927
00:32:20,470 --> 00:32:19,120

targets without subjects people think

928
00:32:22,230 --> 00:32:20,480

subjects or

929
00:32:24,310 --> 00:32:22,240

animals humans are more interesting than

930
00:32:25,750 --> 00:32:24,320

non-animals humans you still see the

931
00:32:27,750 --> 00:32:25,760

effect

932
00:32:29,509 --> 00:32:27,760

you narrow it down to one element so

933
00:32:31,990 --> 00:32:29,519

it's a one element graph compared to

934
00:32:33,750 --> 00:32:32,000

another one element graph and you still

935
00:32:36,310 --> 00:32:33,760

see the effect so

936
00:32:39,110 --> 00:32:36,320

we pre-registered these analyses

937
00:32:41,029 --> 00:32:39,120

with the kessler registration unit

938
00:32:42,630 --> 00:32:41,039

and we did it again on the second batch

939

00:32:44,389 --> 00:32:42,640

of data and here

940

00:32:45,909 --> 00:32:44,399

um because there were fewer people in

941

00:32:48,950 --> 00:32:45,919

the second batch i had to go with the

942

00:32:50,789 --> 00:32:48,960

top five correct and top five incorrect

943

00:32:52,870 --> 00:32:50,799

but again you see the same effect here

944

00:32:54,070 --> 00:32:52,880

it's significant with words no subjects

945

00:32:54,950 --> 00:32:54,080

one element

946

00:32:57,669 --> 00:32:54,960

so

947

00:32:59,990 --> 00:32:57,679

that's an example

948

00:33:01,830 --> 00:33:00,000

of using all of these

949

00:33:04,630 --> 00:33:01,840

so we started with these small effects

950

00:33:06,310 --> 00:33:04,640

these time course effects and awareness

951
00:33:07,750 --> 00:33:06,320
that it was early in exploratory we

952
00:33:09,590 --> 00:33:07,760
accrued data

953
00:33:11,990 --> 00:33:09,600
we recognized that

954
00:33:14,470 --> 00:33:12,000
the way we were looking at the data

955
00:33:15,909 --> 00:33:14,480
might not be the way um that's the most

956
00:33:17,430 --> 00:33:15,919
useful way to look at the data when we

957
00:33:18,549 --> 00:33:17,440
started thinking about interestingness

958
00:33:21,430 --> 00:33:18,559
then we characterized the

959
00:33:23,669 --> 00:33:21,440
interestingness without imposing right

960
00:33:25,190 --> 00:33:23,679
we didn't decide that there's one way to

961
00:33:27,830 --> 00:33:25,200
look at interestingness we just asked a

962
00:33:29,750 --> 00:33:27,840
bunch of m turkers to describe that to

963
00:33:31,909 --> 00:33:29,760

to rank uh the targets by

964

00:33:33,669 --> 00:33:31,919

interestingness and we honed in on the

965

00:33:35,830 --> 00:33:33,679

big result

966

00:33:36,950 --> 00:33:35,840

so what do we conclude with all this so

967

00:33:39,029 --> 00:33:36,960

first of all

968

00:33:40,630 --> 00:33:39,039

nothing new but expectation opposing

969

00:33:42,789 --> 00:33:40,640

effects which some people call sign

970

00:33:44,710 --> 00:33:42,799

missing but in this case there's plenty

971

00:33:47,029 --> 00:33:44,720

of side going on it's just opposing the

972

00:33:49,509 --> 00:33:47,039

expectations of people and including the

973

00:33:51,110 --> 00:33:49,519

experimenters expectation opposing

974

00:33:52,950 --> 00:33:51,120

effects are rampant

975

00:33:54,310 --> 00:33:52,960

big effects seem generally to be

976
00:33:56,549 --> 00:33:54,320
consistent

977
00:33:59,190 --> 00:33:56,559
um at least in this case

978
00:34:00,710 --> 00:33:59,200
when you ask people to do a task that

979
00:34:02,630 --> 00:34:00,720
does not predict the mechanism that

980
00:34:06,230 --> 00:34:02,640
they're using to do the task so for

981
00:34:09,109 --> 00:34:06,240
example when people were doing the um

982
00:34:10,550 --> 00:34:09,119
precognition task turns out either women

983
00:34:13,430 --> 00:34:10,560
or men or both depending on how you

984
00:34:15,190 --> 00:34:13,440
think about it we're using micro pk

985
00:34:17,750 --> 00:34:15,200
right or at least there's evidence for

986
00:34:20,149 --> 00:34:17,760
at least some micro pk so what you ask

987
00:34:21,109 --> 00:34:20,159
them to do and what they do it's very

988
00:34:22,950 --> 00:34:21,119

different

989

00:34:25,109 --> 00:34:22,960

and basically we just want to reinforce

990

00:34:27,829 --> 00:34:25,119

that these search principles actually

991

00:34:33,190 --> 00:34:30,710

and i wanted to show this picture of

992

00:34:34,790 --> 00:34:33,200

the folks in the movie arrival these are

993

00:34:36,710 --> 00:34:34,800

two scientists

994

00:34:39,190 --> 00:34:36,720

who are trying to understand what those

995

00:34:40,629 --> 00:34:39,200

weird hand-like creatures are the

996

00:34:44,230 --> 00:34:40,639

heptapods

997

00:34:45,669 --> 00:34:44,240

um floating in a vast milky sea of goo

998

00:34:47,990 --> 00:34:45,679

they're trying to understand how they

999

00:34:50,149 --> 00:34:48,000

communicate and what they recognize is

1000

00:34:53,349 --> 00:34:50,159

that their communication

1001
00:34:54,470 --> 00:34:53,359
is extremely contextual

1002
00:34:56,310 --> 00:34:54,480
in that

1003
00:34:58,790 --> 00:34:56,320
each of these blobs that you see on the

1004
00:34:59,589 --> 00:34:58,800
circle are related to the other blobs

1005
00:35:02,069 --> 00:34:59,599
and

1006
00:35:03,030 --> 00:35:02,079
contextual in time so the areas of the

1007
00:35:04,630 --> 00:35:03,040
circle

1008
00:35:06,950 --> 00:35:04,640
are all being

1009
00:35:07,910 --> 00:35:06,960
uh presented at once even though it's an

1010
00:35:09,349 --> 00:35:07,920
ordered

1011
00:35:11,430 --> 00:35:09,359
concept like you would have a human

1012
00:35:13,190 --> 00:35:11,440
sentence in time everything's being

1013
00:35:15,349 --> 00:35:13,200

presented at once and yet everything

1014

00:35:17,589 --> 00:35:15,359

depends on everything else

1015

00:35:21,430 --> 00:35:17,599

this is kind of the way i'm i'm seeing

1016

00:35:22,550 --> 00:35:21,440

psy now is we really are starting

1017

00:35:24,710 --> 00:35:22,560

to

1018

00:35:26,950 --> 00:35:24,720

hone in on the

1019

00:35:29,990 --> 00:35:26,960

impressive contextuality

1020

00:35:32,069 --> 00:35:30,000

of psy and maybe we need to not be so

1021

00:35:34,390 --> 00:35:32,079

surprised or maybe

1022

00:35:35,270 --> 00:35:34,400

i need not to be so surprised

1023

00:35:37,990 --> 00:35:35,280

um

1024

00:35:39,670 --> 00:35:38,000

that it's not so easy to track down it

1025

00:35:41,190 --> 00:35:39,680

it's like a completely different

1026

00:35:43,589 --> 00:35:41,200

language

1027

00:35:45,990 --> 00:35:43,599

and we are just starting to learn it

1028

00:35:48,470 --> 00:35:46,000

especially at the level of forced choice

1029

00:35:51,430 --> 00:35:48,480

versions of these kinds of

1030

00:35:54,950 --> 00:35:53,030

so i just want to thank all the

1031

00:35:57,589 --> 00:35:54,960

participants in the experiments all the

1032

00:35:58,390 --> 00:35:57,599

folks who volunteered for this iq psi

1033

00:36:00,310 --> 00:35:58,400

cube

1034

00:36:02,150 --> 00:36:00,320

packations

1035

00:36:03,589 --> 00:36:02,160

teresa chung my co-author on the

1036

00:36:05,990 --> 00:36:03,599

premonition code

1037

00:36:09,510 --> 00:36:06,000

the ions research team

1038

00:36:12,230 --> 00:36:09,520

the designers and coders of the psy3 app

1039

00:36:15,270 --> 00:36:12,240

greg travis david mix arna delorme

1040

00:36:17,910 --> 00:36:15,280

cameron bamer and mikey siegel hibsc

1041

00:36:19,990 --> 00:36:17,920

limited who supports the website as well

1042

00:36:21,829 --> 00:36:20,000

as woodbridge institute but of course

1043

00:36:24,630 --> 00:36:21,839

mark is actually a co-author so i don't

1044

00:36:26,790 --> 00:36:24,640

know how to put that in here

1045

00:36:29,190 --> 00:36:26,800

the all foundation funders

1046

00:36:32,230 --> 00:36:29,200

uh for dean and myself jeff and leslie

1047

00:36:34,230 --> 00:36:32,240

olsner charlie and murray maureen pelton

1048

00:36:35,510 --> 00:36:34,240

the hummingbird foundation

1049

00:36:37,270 --> 00:36:35,520

and um

1050

00:36:39,829 --> 00:36:37,280

of course my co-authors

1051
00:36:41,990 --> 00:36:39,839
and their institutions so mark makuuzi

1052
00:36:43,750 --> 00:36:42,000
from the windbridge institute dean

1053
00:36:44,950 --> 00:36:43,760
rayden from the institute of atlantic

1054
00:36:47,190 --> 00:36:44,960
sciences

1055
00:36:48,069 --> 00:36:47,200
and all of all of my institutions as

1056
00:36:50,230 --> 00:36:48,079
well

1057
00:36:51,990 --> 00:36:50,240
university of san diego the institute

1058
00:36:53,990 --> 00:36:52,000
for love and time

1059
00:36:56,230 --> 00:36:54,000
and the institute of knowledge sciences

1060
00:36:58,630 --> 00:36:56,240
so thank you everybody i so appreciate