

40:23



Matt S (Guest)



Finsam Samson (Guest)



Yuje Wang (Guest)



1
00:01:12,020 --> 00:00:10,560
[Music]

2
00:01:17,749 --> 00:01:12,030
t-minus 30 seconds

3
00:01:19,320 --> 00:01:17,759
[Music]

4
00:01:23,429 --> 00:01:19,330
we are go for launch

5
00:01:23,439 --> 00:01:31,370
t-minus ten

6
00:01:36,390 --> 00:01:34,390
[Music]

7
00:01:38,830 --> 00:01:36,400
welcome to the nasa social for the crew

8
00:01:48,410 --> 00:01:38,840
one mission to the international space

9
00:02:21,030 --> 00:01:54,730
[Music]

10
00:02:25,030 --> 00:02:23,110
welcome back to the final segment of the

11
00:02:25,750 --> 00:02:25,040
nasa virtual social for the crew one

12
00:02:28,630 --> 00:02:25,760
mission

13
00:02:30,550 --> 00:02:28,640

i'm your host bethany hall for over 20

14

00:02:32,470 --> 00:02:30,560

years we have been living working and

15

00:02:33,589 --> 00:02:32,480

conducting research on the international

16

00:02:35,350 --> 00:02:33,599

space station

17

00:02:37,589 --> 00:02:35,360

it has been one of our most valuable

18

00:02:42,710 --> 00:02:37,599

assets for learning about how

19

00:02:44,390 --> 00:02:42,720

this the space affects the human body

20

00:02:46,150 --> 00:02:44,400

today we are going to be talking with

21

00:02:46,869 --> 00:02:46,160

two students who competed in the jeans

22

00:02:48,869 --> 00:02:46,879

in space

23

00:02:50,229 --> 00:02:48,879

challenge for those of you unfamiliar

24

00:02:55,509 --> 00:02:50,239

with the challenge let's take a quick

25

00:03:00,550 --> 00:02:59,270

minus 10 9 8. jeans in space is a

26
00:03:02,149 --> 00:03:00,560
science competition

27
00:03:04,229 --> 00:03:02,159
inviting students to make a real

28
00:03:07,030 --> 00:03:04,239
contribution to space exploration

29
00:03:08,070 --> 00:03:07,040
through dna analysis students in grades

30
00:03:10,710 --> 00:03:08,080
7 through 12

31
00:03:12,869 --> 00:03:10,720
design dna research proposals and become

32
00:03:14,470 --> 00:03:12,879
pioneers in space biology

33
00:03:17,030 --> 00:03:14,480
winners will participate in space

34
00:03:19,430 --> 00:03:17,040
biology camp and watch their experiments

35
00:03:20,470 --> 00:03:19,440
launched the international space station

36
00:03:23,560 --> 00:03:20,480
three

37
00:03:30,710 --> 00:03:23,570
two one

38
00:03:33,830 --> 00:03:32,869

i want to first start by introducing dr

39

00:03:35,990 --> 00:03:33,840

matt smith

40

00:03:38,309 --> 00:03:36,000

dr smith served as the mentor for

41

00:03:42,149 --> 00:03:38,319

vincent sampson and ug wang

42

00:03:44,070 --> 00:03:42,159

welcome everyone just a reminder

43

00:03:45,990 --> 00:03:44,080

you can ask questions or guest questions

44

00:03:48,550 --> 00:03:46,000

by typing them in the chat window

45

00:03:51,350 --> 00:03:48,560

dr smith tell me a little bit more about

46

00:03:54,789 --> 00:03:51,360

how you got involved with genes in space

47

00:03:55,589 --> 00:03:54,799

yeah great um yeah so my name is matthew

48

00:03:57,110 --> 00:03:55,599

smith

49

00:03:59,190 --> 00:03:57,120

i've been a mentor at jeans and space

50

00:04:00,949 --> 00:03:59,200

for the last two and a half years

51
00:04:02,550 --> 00:04:00,959
and while i've been a mentor there i've

52
00:04:05,670 --> 00:04:02,560
also been getting my phd

53
00:04:07,670 --> 00:04:05,680
from harvard in the subject of biology

54
00:04:09,910 --> 00:04:07,680
and there i've been working under the

55
00:04:11,509 --> 00:04:09,920
mentorship and in the research lab of dr

56
00:04:13,509 --> 00:04:11,519
benjamin de bibor

57
00:04:14,550 --> 00:04:13,519
and there i actually was interested in

58
00:04:17,509 --> 00:04:14,560
understanding

59
00:04:17,990 --> 00:04:17,519
uh individuality and behavior and well

60
00:04:19,270 --> 00:04:18,000
here

61
00:04:21,590 --> 00:04:19,280
probably in the next few minutes how

62
00:04:22,950 --> 00:04:21,600
that's relevant to the experiment of

63
00:04:26,070 --> 00:04:22,960

yugi and fin sam

64
00:04:27,590 --> 00:04:26,080
and um the what what we've actually come

65
00:04:29,510 --> 00:04:27,600
to refine and we're going to send up to

66
00:04:33,270 --> 00:04:29,520
the international space station

67
00:04:34,710 --> 00:04:33,280
so prior to my work at getting my phd at

68
00:04:36,629 --> 00:04:34,720
harvard i was at michigan state

69
00:04:38,150 --> 00:04:36,639
university where i studied biochemistry

70
00:04:40,469 --> 00:04:38,160
and molecular biology

71
00:04:42,469 --> 00:04:40,479
and that's actually kind of the first

72
00:04:44,230 --> 00:04:42,479
place where i got involved in research

73
00:04:45,590 --> 00:04:44,240
also through a mentorship program so

74
00:04:47,030 --> 00:04:45,600
genes in space definitely holds a

75
00:04:49,430 --> 00:04:47,040
special place in my heart

76

00:04:50,950 --> 00:04:49,440

um as another way where i can help

77

00:04:52,950 --> 00:04:50,960

engage younger scientists

78

00:04:54,150 --> 00:04:52,960

and get them ready for answering the big

79

00:04:55,990 --> 00:04:54,160

questions of the future

80

00:04:57,670 --> 00:04:56,000

um and so over the last year i had the

81

00:04:58,469 --> 00:04:57,680

honor and privilege to work with eugene

82

00:05:01,189 --> 00:04:58,479

finsam

83

00:05:01,670 --> 00:05:01,199

to take their original proposal um and

84

00:05:03,749 --> 00:05:01,680

kind of

85

00:05:05,670 --> 00:05:03,759

fine-tune it and work with them to do a

86

00:05:07,749 --> 00:05:05,680

lot of the groundwork to troubleshoot

87

00:05:09,270 --> 00:05:07,759

um and get a working tangible experiment

88

00:05:11,350 --> 00:05:09,280

to send to

89

00:05:13,510 --> 00:05:11,360

the incredible scientists at nasa and

90

00:05:14,790 --> 00:05:13,520

eventually get sent up to the iss

91

00:05:16,550 --> 00:05:14,800

international space station to be

92

00:05:17,830 --> 00:05:16,560

conducted by the team there

93

00:05:19,830 --> 00:05:17,840

it's been a really wonderful

94

00:05:22,629 --> 00:05:19,840

collaborative experience by the greater

95

00:05:24,629 --> 00:05:22,639

genesis space team um including another

96

00:05:27,510 --> 00:05:24,639

mentor dennis adabay

97

00:05:30,550 --> 00:05:27,520

and yeah and with that i'll pass to fin

98

00:05:33,590 --> 00:05:30,560

sam to do an introduction to himself

99

00:05:35,350 --> 00:05:33,600

yeah hi everyone i'm vincent sampson

100

00:05:37,990 --> 00:05:35,360

um we're excited to get questions from

101
00:05:40,629 --> 00:05:38,000
you all eugene and i entered jesus space

102
00:05:42,710 --> 00:05:40,639
a year and a half ago as seniors at troy

103
00:05:44,550 --> 00:05:42,720
high school in troy michigan

104
00:05:45,990 --> 00:05:44,560
we proposed a study that was looking at

105
00:05:48,629 --> 00:05:46,000
how space flight can

106
00:05:49,590 --> 00:05:48,639
impact neural function our nervous

107
00:05:52,230 --> 00:05:49,600
system

108
00:05:53,350 --> 00:05:52,240
since then i'm currently a sophomore at

109
00:05:56,070 --> 00:05:53,360
stanford university

110
00:05:58,469 --> 00:05:56,080
studying computer science with an

111
00:06:00,790 --> 00:05:58,479
interest in bio computation

112
00:06:02,550 --> 00:06:00,800
and this summer i actually interned at

113
00:06:05,029 --> 00:06:02,560

nasa's ames research center

114

00:06:05,590 --> 00:06:05,039

with the gene lab group doing work there

115

00:06:09,110 --> 00:06:05,600

so yeah

116

00:06:10,790 --> 00:06:09,120

pleasure to meet you all um hello

117

00:06:12,870 --> 00:06:10,800

as ben sam just mentioned my name is

118

00:06:13,830 --> 00:06:12,880

yuji wang and i work within sam in my

119

00:06:15,990 --> 00:06:13,840

senior year of high school

120

00:06:17,270 --> 00:06:16,000

developing a proposal eventually getting

121

00:06:19,110 --> 00:06:17,280

through to the final stage

122

00:06:20,550 --> 00:06:19,120

and finally getting selected as you saw

123

00:06:22,469 --> 00:06:20,560

in the video

124

00:06:24,390 --> 00:06:22,479

i was really interested in computational

125

00:06:27,110 --> 00:06:24,400

biology in my senior year of high school

126

00:06:27,749 --> 00:06:27,120

and to some degree i still am i am still

127

00:06:30,309 --> 00:06:27,759

doing

128

00:06:31,029 --> 00:06:30,319

computer science actually i'm currently

129

00:06:32,870 --> 00:06:31,039

a sophomore

130

00:06:35,029 --> 00:06:32,880

at uc berkeley studying computer science

131

00:06:36,710 --> 00:06:35,039

and electrical engineering

132

00:06:38,150 --> 00:06:36,720

i am also pretty active in the

133

00:06:40,790 --> 00:06:38,160

space-related sphere

134

00:06:42,230 --> 00:06:40,800

in at uc berkeley i have really i am in

135

00:06:44,070 --> 00:06:42,240

several extracurricular activities

136

00:06:46,070 --> 00:06:44,080

that do space related projects for

137

00:06:46,710 --> 00:06:46,080

example this semester i'll be leading a

138

00:06:49,189 --> 00:06:46,720

project

139

00:06:50,790 --> 00:06:49,199

that is developing a plant growth

140

00:06:54,150 --> 00:06:50,800

chamber for use on the international

141

00:06:58,710 --> 00:06:56,950

okay dr smith can you tell us more about

142

00:07:00,230 --> 00:06:58,720

how they got to the point where their

143

00:07:02,550 --> 00:07:00,240

research is going to be launching to the

144

00:07:05,589 --> 00:07:02,560

international space station

145

00:07:06,230 --> 00:07:05,599

yeah absolutely um so the way the genes

146

00:07:08,390 --> 00:07:06,240

in space

147

00:07:10,150 --> 00:07:08,400

mentoring program um kind of is

148

00:07:11,430 --> 00:07:10,160

conducted is first we get research

149

00:07:13,909 --> 00:07:11,440

proposals from

150

00:07:15,029 --> 00:07:13,919

across the nation and so in this

151

00:07:18,390 --> 00:07:15,039

particular year we had

152

00:07:20,390 --> 00:07:18,400

over 750 different applications and

153

00:07:21,749 --> 00:07:20,400

finsam and yugi's application definitely

154

00:07:23,430 --> 00:07:21,759

stuck out to us as being

155

00:07:25,909 --> 00:07:23,440

incredibly well researched and such a

156

00:07:27,670 --> 00:07:25,919

really novel and interesting idea

157

00:07:29,430 --> 00:07:27,680

and so from that they were they were

158

00:07:30,469 --> 00:07:29,440

picked as a finalist so one of five

159

00:07:32,070 --> 00:07:30,479

groups

160

00:07:34,629 --> 00:07:32,080

and there they were paired with a mentor

161

00:07:37,110 --> 00:07:34,639

who i mentioned before dr dennis adebay

162

00:07:37,830 --> 00:07:37,120

who was getting his phd from mit where

163

00:07:40,870 --> 00:07:37,840

they were to

164

00:07:42,390 --> 00:07:40,880

refine that proposal into a very nice

165

00:07:43,990 --> 00:07:42,400

presentation to present at the

166

00:07:45,350 --> 00:07:44,000

international space station research and

167

00:07:47,749 --> 00:07:45,360

development conference

168

00:07:49,749 --> 00:07:47,759

i mean from that they were chosen as the

169

00:07:51,189 --> 00:07:49,759

winners after doing an incredible job

170

00:07:53,430 --> 00:07:51,199

presenting their research

171

00:07:54,629 --> 00:07:53,440

and outlining how this experiment can

172

00:07:57,510 --> 00:07:54,639

actually be conducted

173

00:07:57,990 --> 00:07:57,520

where they then were working with myself

174

00:08:00,309 --> 00:07:58,000

and again

175

00:08:01,510 --> 00:08:00,319

the greater genesis-based team to

176
00:08:03,430 --> 00:08:01,520
actually

177
00:08:04,629 --> 00:08:03,440
you know refine what model organism

178
00:08:06,309 --> 00:08:04,639
we're going to use

179
00:08:08,950 --> 00:08:06,319
actually conducting an experiment

180
00:08:10,629 --> 00:08:08,960
looking at some of the raw data

181
00:08:14,469 --> 00:08:10,639
and then you know eventually finding

182
00:08:17,909 --> 00:08:16,230
well that's that's super exciting and

183
00:08:18,309 --> 00:08:17,919
you mentioned before that there were

184
00:08:21,830 --> 00:08:18,319
over

185
00:08:24,469 --> 00:08:21,840
700 proposals that theirs was selected

186
00:08:25,110 --> 00:08:24,479
from so what was that moment like for

187
00:08:27,350 --> 00:08:25,120
you

188
00:08:29,270 --> 00:08:27,360

um and this question is more for vincent

189

00:08:31,029 --> 00:08:29,280

and yuji what was that moment like when

190

00:08:32,389 --> 00:08:31,039

you were at that conference and you

191

00:08:34,310 --> 00:08:32,399

heard that your proposal had been

192

00:08:37,350 --> 00:08:34,320

selected

193

00:08:40,389 --> 00:08:37,360

so um i feel that

194

00:08:42,149 --> 00:08:40,399

i um i i was uh actually vincent had

195

00:08:42,949 --> 00:08:42,159

previously gone to uh jeans and space

196

00:08:45,350 --> 00:08:42,959

conference before

197

00:08:46,070 --> 00:08:45,360

because he has been a previous winner um

198

00:08:57,910 --> 00:08:46,080

i

199

00:08:59,910 --> 00:08:57,920

because

200

00:09:01,910 --> 00:08:59,920

people were taking my research seriously

201
00:09:03,910 --> 00:09:01,920
people saw that my proposal had merit

202
00:09:05,910 --> 00:09:03,920
and i also saw that there's this vibrant

203
00:09:07,829 --> 00:09:05,920
community around space related research

204
00:09:10,310 --> 00:09:07,839
and just vibrancy and research in

205
00:09:11,269 --> 00:09:10,320
general and it has sort of inspired me

206
00:09:13,750 --> 00:09:11,279
to go into research

207
00:09:15,590 --> 00:09:13,760
in my freshman year at berkeley i

208
00:09:17,829 --> 00:09:15,600
undertook a research project

209
00:09:19,030 --> 00:09:17,839
in the biosciences department related to

210
00:09:20,470 --> 00:09:19,040
computational biology

211
00:09:22,310 --> 00:09:20,480
and next semester i'll also be looking

212
00:09:24,230 --> 00:09:22,320
for more research opportunities

213
00:09:26,710 --> 00:09:24,240

genes in space has really increased my

214

00:09:29,269 --> 00:09:26,720

confidence and made me

215

00:09:30,870 --> 00:09:29,279

and really made me think about whether

216

00:09:34,389 --> 00:09:30,880

research is a good career path for me

217

00:09:35,430 --> 00:09:34,399

as a computer scientist yeah i would

218

00:09:37,509 --> 00:09:35,440

definitely say that

219

00:09:38,949 --> 00:09:37,519

that moment where our names were called

220

00:09:39,509 --> 00:09:38,959

it was just a mixture of so many

221

00:09:42,790 --> 00:09:39,519

emotions

222

00:09:43,269 --> 00:09:42,800

and that wow this at that point i would

223

00:09:46,389 --> 00:09:43,279

say

224

00:09:49,350 --> 00:09:46,399

for four to six months long effort wow

225

00:09:51,030 --> 00:09:49,360

it has come to fruition and we're gonna

226

00:09:53,430 --> 00:09:51,040

make this a reality it was

227

00:09:54,949 --> 00:09:53,440

uh really a new beginning even though

228

00:09:55,990 --> 00:09:54,959

the launch that's happening on saturday

229

00:09:57,750 --> 00:09:56,000

is also a really

230

00:09:59,990 --> 00:09:57,760

new beginning that we're really excited

231

00:10:03,030 --> 00:10:00,000

to get going um but yeah it was

232

00:10:05,829 --> 00:10:03,040

just a mix of emotions um so much

233

00:10:09,190 --> 00:10:05,839

excitement so much excitement to be had

234

00:10:10,790 --> 00:10:09,200

that day so your

235

00:10:12,150 --> 00:10:10,800

research was going to be conducted by

236

00:10:14,069 --> 00:10:12,160

the astronauts on board the

237

00:10:16,150 --> 00:10:14,079

international space station

238

00:10:20,710 --> 00:10:16,160

are do you have any expectations for

239

00:10:26,389 --> 00:10:23,990

so yeah i can start here i

240

00:10:27,990 --> 00:10:26,399

we our experiment we're basically

241

00:10:28,630 --> 00:10:28,000

establishing a proof of concept we want

242

00:10:31,350 --> 00:10:28,640

to see

243

00:10:31,990 --> 00:10:31,360

what kinds of changes we can notice in

244

00:10:34,790 --> 00:10:32,000

neural tissue

245

00:10:35,590 --> 00:10:34,800

in the nervous system in space and

246

00:10:38,150 --> 00:10:35,600

establish

247

00:10:39,509 --> 00:10:38,160

the methods on the iss the international

248

00:10:44,829 --> 00:10:39,519

space station by which

249

00:10:49,750 --> 00:10:46,870

hey

250

00:10:50,069 --> 00:10:49,760

um yeah i mean i think that's a great

251

00:10:52,790 --> 00:10:50,079

way

252

00:10:54,630 --> 00:10:52,800

to to put it and yeah i think our what's

253

00:10:55,590 --> 00:10:54,640

what's cool is that we've done a lot of

254

00:10:57,990 --> 00:10:55,600

the ground work

255

00:11:00,069 --> 00:10:58,000

uh working in the lab kind of where i've

256

00:11:02,389 --> 00:11:00,079

been conducting my phd work so we do

257

00:11:03,350 --> 00:11:02,399

and because of the system that we're

258

00:11:06,069 --> 00:11:03,360

using we do have

259

00:11:07,110 --> 00:11:06,079

pretty clear hypothesis as to what to

260

00:11:09,430 --> 00:11:07,120

expect

261

00:11:10,630 --> 00:11:09,440

um in terms of the effects of

262

00:11:13,350 --> 00:11:10,640

microgravity

263

00:11:14,870 --> 00:11:13,360

um i think we we have pretty clear you

264

00:11:17,030 --> 00:11:14,880

know or

265

00:11:18,230 --> 00:11:17,040

based on the the findings from previous

266

00:11:19,509 --> 00:11:18,240

experiments we think that

267

00:11:21,509 --> 00:11:19,519

there shouldn't be too much of a

268

00:11:25,190 --> 00:11:21,519

difference or effect of microgravity on

269

00:11:28,310 --> 00:11:26,870

what advice would you give students who

270

00:11:31,509 --> 00:11:28,320

would like to get involved with genes in

271

00:11:37,269 --> 00:11:34,550

so i would i would definitely say

272

00:11:37,590 --> 00:11:37,279

do research on what you're interested in

273

00:11:45,430 --> 00:11:37,600

i

274

00:11:47,509 --> 00:11:45,440

lot of uh

275

00:11:48,630 --> 00:11:47,519

i have read a lot of science articles

276

00:11:50,470 --> 00:11:48,640

pop-tart articles

277

00:11:52,470 --> 00:11:50,480

and ever since i became more seriously

278

00:11:55,030 --> 00:11:52,480

interested in potentially pursuing

279

00:11:56,310 --> 00:11:55,040

a computational biology degree i have

280

00:11:58,230 --> 00:11:56,320

been doing some background research

281

00:12:00,150 --> 00:11:58,240

reading some of the newest literature

282

00:12:01,110 --> 00:12:00,160

all the hottest scientific journals for

283

00:12:03,110 --> 00:12:01,120

example

284

00:12:04,389 --> 00:12:03,120

and i'm sure fin sam has done the same

285

00:12:08,870 --> 00:12:04,399

as

286

00:12:11,030 --> 00:12:08,880

so yeah i would definitely say

287

00:12:12,710 --> 00:12:11,040

um find something you're passionate

288

00:12:14,310 --> 00:12:12,720

about you know see what's out there

289

00:12:16,470 --> 00:12:14,320

see what people are talking about in

290

00:12:16,949 --> 00:12:16,480

science and if something stands out to

291

00:12:18,949 --> 00:12:16,959

you

292

00:12:20,310 --> 00:12:18,959

um pursue it especially if it's

293

00:12:22,870 --> 00:12:20,320

something you're passionate about

294

00:12:24,310 --> 00:12:22,880

find out mentors in science people who

295

00:12:25,990 --> 00:12:24,320

can help guide you

296

00:12:27,910 --> 00:12:26,000

it's people that you can seek advice

297

00:12:31,350 --> 00:12:27,920

from more directly than

298

00:12:34,389 --> 00:12:31,360

um than not just giving you advice but

299

00:12:36,629 --> 00:12:34,399

definitely read read a ton

300

00:12:38,230 --> 00:12:36,639

uh read stuff about things that you're

301

00:12:40,150 --> 00:12:38,240

really passionate in and find

302

00:12:43,829 --> 00:12:40,160

um people that you can that can be your

303

00:12:48,389 --> 00:12:45,670

now vincent you actually did an

304

00:12:51,030 --> 00:12:48,399

internship at nasa ames is that correct

305

00:12:51,990 --> 00:12:51,040

yes what did you do while you were there

306

00:12:54,230 --> 00:12:52,000

yeah i was with

307

00:12:55,350 --> 00:12:54,240

a nasa's gene lab group and they're

308

00:12:57,670 --> 00:12:55,360

essentially

309

00:12:59,750 --> 00:12:57,680

a website but also a repository they

310

00:13:01,990 --> 00:12:59,760

host a lot of space biology data

311

00:13:03,190 --> 00:13:02,000

from research such as our experiment

312

00:13:05,590 --> 00:13:03,200

actually

313

00:13:06,550 --> 00:13:05,600

that was conducted both in on the iss

314

00:13:08,230 --> 00:13:06,560

and in a bunch of

315

00:13:09,829 --> 00:13:08,240

space railroad missions and my work

316

00:13:12,389 --> 00:13:09,839

there was really

317

00:13:14,069 --> 00:13:12,399

bioinformatics work helping uh work

318

00:13:15,829 --> 00:13:14,079

through their data sets and establish

319

00:13:17,509 --> 00:13:15,839

new capabilities for some visualization

320

00:13:19,590 --> 00:13:17,519

tools that they're planning to launch in

321

00:13:22,790 --> 00:13:19,600

the future

322

00:13:24,790 --> 00:13:22,800

yeah well while we're talking about

323

00:13:25,829 --> 00:13:24,800

internships just for those students

324

00:13:27,190 --> 00:13:25,839

watching

325

00:13:29,389 --> 00:13:27,200

if you want to look for opportunities

326

00:13:31,509 --> 00:13:29,399

you can go to intern intern

327

00:13:33,509 --> 00:13:31,519

sorry.nasa.gov and you could the

328

00:13:35,990 --> 00:13:33,519

opportunities will be listed there

329

00:13:37,509 --> 00:13:36,000

so you know you're going to see your

330

00:13:41,990 --> 00:13:37,519

research launch tomorrow

331

00:13:48,389 --> 00:13:45,189

so i'll be watching from home because

332

00:13:49,990 --> 00:13:48,399

uh because my because i uh i really want

333

00:13:52,629 --> 00:13:50,000

to spend this time with my family

334

00:13:53,110 --> 00:13:52,639

to see like this monumental achievement

335

00:13:55,990 --> 00:13:53,120

in my

336

00:13:56,870 --> 00:13:56,000

young life let's just say um i would

337

00:13:59,430 --> 00:13:56,880

probably be

338

00:14:00,230 --> 00:13:59,440

my kid my i have a younger brother and

339

00:14:02,470 --> 00:14:00,240

i'll probably

340

00:14:03,509 --> 00:14:02,480

be right beside him and he will maybe

341

00:14:07,110 --> 00:14:03,519

freak out maybe not

342

00:14:08,710 --> 00:14:07,120

and i'm just i am really really excited

343

00:14:09,750 --> 00:14:08,720

to see how my family reacts to this

344

00:14:11,350 --> 00:14:09,760

achievement

345

00:14:12,949 --> 00:14:11,360

and hopefully they will be encouraging

346

00:14:15,430 --> 00:14:12,959

and they will be just as excited as i am

347

00:14:19,670 --> 00:14:17,910

yes i i would say very similarly i'm

348

00:14:22,710 --> 00:14:19,680

going to be glued to the tv

349

00:14:25,670 --> 00:14:22,720

um or the device that i will watch from

350

00:14:26,470 --> 00:14:25,680

tomorrow um with spending that time with

351

00:14:30,230 --> 00:14:26,480

my family

352

00:14:32,389 --> 00:14:30,240

showing my sister um and yeah

353

00:14:35,509 --> 00:14:32,399

it's gonna be an awesome time really

354

00:14:40,230 --> 00:14:37,189

and i'll be watching from my apartment

355

00:14:42,710 --> 00:14:40,240

in chicago um yeah also glued to the tv

356

00:14:45,030 --> 00:14:42,720

but close to lake michigan so nice

357

00:14:47,509 --> 00:14:45,040

pretty views

358

00:14:48,629 --> 00:14:47,519

well thank you all so much for being

359

00:14:50,629 --> 00:14:48,639

with us today

360

00:14:52,629 --> 00:14:50,639

um we definitely wish you luck in all of

361

00:14:54,550 --> 00:14:52,639

your future endeavors and

362

00:14:56,470 --> 00:14:54,560

what do you plan what does the future

363

00:14:58,230 --> 00:14:56,480

hold for you um

364

00:15:00,230 --> 00:14:58,240

as you you know prepare your sophomore

365

00:15:01,910 --> 00:15:00,240

is now in college

366

00:15:07,509 --> 00:15:01,920

what do you plan on doing once you

367

00:15:11,509 --> 00:15:09,910

great so i would definitely say that i'm

368

00:15:13,269 --> 00:15:11,519

looking forward to any sort of

369

00:15:14,470 --> 00:15:13,279

opportunities out there in space biology

370

00:15:17,829 --> 00:15:14,480

computational biology

371

00:15:21,750 --> 00:15:17,839

and getting involved pursuing

372

00:15:22,069 --> 00:15:21,760

this interest i have in how space flight

373

00:15:23,590 --> 00:15:22,079

can

374

00:15:26,790 --> 00:15:23,600

really impact neural function and just

375

00:15:29,269 --> 00:15:26,800

learning more about that and

376

00:15:30,550 --> 00:15:29,279

advancing the field of health in general

377

00:15:34,150 --> 00:15:30,560

don't have specifics but

378

00:15:34,160 --> 00:15:37,910

pursue that more in the future

379

00:15:41,189 --> 00:15:40,150

yeah along the lines of what fincem says

380

00:15:43,110 --> 00:15:41,199

vincent just said

381

00:15:44,389 --> 00:15:43,120

i am really also really interested in

382

00:15:46,710 --> 00:15:44,399

computational biology

383

00:15:47,670 --> 00:15:46,720

um i think that perhaps um doing this

384

00:15:54,069 --> 00:15:47,680

research

385

00:15:54,870 --> 00:15:54,079

this has been a really positive

386

00:15:57,670 --> 00:15:54,880

experience

387

00:15:59,189 --> 00:15:57,680

as have the previous ones so i'm really

388

00:16:02,710 --> 00:15:59,199

encouraged to pursue

389

00:16:06,470 --> 00:16:02,720

a masters or phd and go further into

390

00:16:09,749 --> 00:16:08,629

once again thank you all for being here

391

00:16:11,749 --> 00:16:09,759

with us today

392

00:16:13,430 --> 00:16:11,759

and thank all of you who are have

393

00:16:16,150 --> 00:16:13,440

watched us and been with us for

394

00:16:18,949 --> 00:16:16,160

each of our segments this is the end of

395

00:16:20,790 --> 00:16:18,959

the nasa virtual crew one social

396

00:16:22,150 --> 00:16:20,800

we hope you will join us on launch day

397

00:16:25,189 --> 00:16:22,160

during the live broadcast

398

00:16:27,269 --> 00:16:25,199

coverage it is at nasa.gov