

WEBVTT

1 00:00:01.460 --> 00:00:03.643 <v ->Okay, it's 8:02, let's get started.</v>
2 00:00:04.623 --> 00:00:06.050 Good morning, Good evening.
3 00:00:06.050 --> 00:00:07.310 I'm a Steven ma.
4 00:00:07.310 --> 00:00:10.690 I'm a Professor OF biostatistics and
5 00:00:10.690 --> 00:00:12.873 Interim Chair of the Biostat Department.
6 00:00:13.826 --> 00:00:14.940 First of all,
7 00:00:14.940 --> 00:00:19.520 thanks very much for your interest in our graduate program
8 00:00:19.520 --> 00:00:22.330 and we have a very full agenda
9 00:00:22.330 --> 00:00:25.340 and also I want to take this opportunity
10 00:00:25.340 --> 00:00:28.043 to thank my colleagues for joining me.
11 00:00:29.176 --> 00:00:31.170 And during our presentation,
12 00:00:31.170 --> 00:00:35.800 if you have any questions you can either type in chat
13 00:00:35.800 --> 00:00:37.760 or you can reserve your question
14 00:00:37.760 --> 00:00:41.313 for that 20 minutes Q and A. Next page.
15 00:00:46.356 --> 00:00:49.810 So biostat is actually a very interesting field,
16 00:00:49.810 --> 00:00:53.030 if you look at the word biostatistics.
17 00:00:53.030 --> 00:00:55.550 it's actually composed of two parts,
18 00:00:55.550 --> 00:00:58.124 statistics and bio.
19 00:00:58.124 --> 00:01:02.100 That's actually exactly what we do, on one side
20 00:01:02.100 --> 00:01:06.595 we conduct statistical methodological research
21 00:01:06.595 --> 00:01:11.340 and on the other side, we apply such measures to
22 00:01:11.340 --> 00:01:14.370 biomedical public health applications.
23 00:01:14.370 --> 00:01:17.783 And here I want to quote from our Dean, Dr Vermund.
24 00:01:18.850 --> 00:01:21.660 Biostat has the largest department
25 00:01:21.660 --> 00:01:24.730 in our school public house and
26 00:01:24.730 --> 00:01:27.825 we have been heavily involved in

27 00:01:27.825 --> 00:01:31.280 pretty much all studies conducted at
28 00:01:31.280 --> 00:01:35.240 school public house and school medicine. Next
page
29 00:01:38.120 --> 00:01:40.920 So as you can see here,
30 00:01:40.920 --> 00:01:42.310 we have a big department and
31 00:01:42.310 --> 00:01:46.630 we really got all major research areas,
32 00:01:46.630 --> 00:01:49.980 whole bio statistics and statistics covered.
33 00:01:49.980 --> 00:01:54.410 So our faculty have been conducting research
in some
34 00:01:54.410 --> 00:01:57.600 I'll say relatively classic, you know, science
fields,
35 00:01:57.600 --> 00:02:00.627 like survival analysis, longitudinal data,
36 00:02:00.627 --> 00:02:01.793 and the missing data.
37 00:02:03.050 --> 00:02:06.180 We also work on more recent, more challenging
fields,
38 00:02:06.180 --> 00:02:09.580 like a causal inference, big data,
39 00:02:09.580 --> 00:02:13.603 AI data integration and others, and all those
masters.
40 00:02:14.549 --> 00:02:16.195 I want to a hundred precise,
41 00:02:16.195 --> 00:02:19.237 have been strongly motivated by biomedical
and
42 00:02:19.237 --> 00:02:21.730 the public house of applications.
43 00:02:21.730 --> 00:02:25.080 So we have been collaborating with researchers
44 00:02:25.080 --> 00:02:29.400 in cancer, cardiovascular diseases, genetics,
45 00:02:29.400 --> 00:02:32.950 HIV, aging, risk predictions.
46 00:02:32.950 --> 00:02:37.405 So I guess what I'm trying to say here is no
matter
47 00:02:37.405 --> 00:02:41.210 which statistical area you're interested in,
48 00:02:41.210 --> 00:02:44.520 no matter which application area you're inter-
ested in,
49 00:02:44.520 --> 00:02:48.200 I can guarantee you, you can find some faculty
to
50 00:02:48.200 --> 00:02:51.273 work with in our department, next page.
51 00:02:52.920 --> 00:02:56.300 So this is a brief overview of our

52 00:02:56.300 --> 00:02:59.240 graduate programs. And later my colleagues
53 00:02:59.240 --> 00:03:02.770 will introduce each component in details.
54 00:03:02.770 --> 00:03:07.770 So we have both master and bachelor level.
55 00:03:09.173 --> 00:03:11.220 And for our master level,
56 00:03:11.220 --> 00:03:14.700 we actually have MPH and I'm asked,
57 00:03:14.700 --> 00:03:19.700 so this MPH has a stronger emphasis on public
house.
58 00:03:22.979 --> 00:03:25.680 And for MS, we have a stronger emphasis on
59 00:03:26.838 --> 00:03:28.488 statistical methodology to serve.
60 00:03:29.347 --> 00:03:33.320 And actually for our MS, we have,
61 00:03:33.320 --> 00:03:37.533 I will say a slightly well, I'm not quite compli-
cated,
62 00:03:38.901 --> 00:03:40.840 but a very comprehensive structure.
63 00:03:40.840 --> 00:03:41.850 So first of all,
64 00:03:41.850 --> 00:03:45.790 we actually have a division of house informatics.
65 00:03:45.790 --> 00:03:49.780 We've seen our biostat department so far I'm
as,
66 00:03:49.780 --> 00:03:54.453 broadly, we have biostatistics and house infor-
matics.
67 00:03:56.363 --> 00:03:58.600 And we've seen biostatistics I'm asked,
68 00:03:58.600 --> 00:04:01.250 we have three pathways.
69 00:04:01.250 --> 00:04:03.610 The first is called a standard pathway.
70 00:04:03.610 --> 00:04:06.363 And also in the past couple of years,
71 00:04:07.610 --> 00:04:11.540 we established the implementation science path-
way
72 00:04:11.540 --> 00:04:14.090 and also data scientists pathway.
73 00:04:14.090 --> 00:04:17.210 So the three pathways have different presenters
74 00:04:18.785 --> 00:04:20.804 and have overlapping courses,
75 00:04:20.804 --> 00:04:23.163 but also different strong status.
76 00:04:24.040 --> 00:04:26.160 So here is also,
77 00:04:26.160 --> 00:04:29.160 you can find a list of a number of required
courses,
78 00:04:29.160 --> 00:04:31.950 and state how the information on a site,

79 00:04:31.950 --> 00:04:34.580 and exactly what kind of courses you need to take

80 00:04:34.580 --> 00:04:39.330 can be found on our website and for our PhD,

81 00:04:39.330 --> 00:04:43.440 we have biostat in the standard of pathway and

82 00:04:43.440 --> 00:04:46.620 also the implementation pathway for,

83 00:04:46.620 --> 00:04:50.450 I just want to add a quick remark on the standard pathway.

84 00:04:50.450 --> 00:04:52.820 It's well, personally,

85 00:04:52.820 --> 00:04:56.350 I want to say it's not a very good name.

86 00:04:56.350 --> 00:04:59.340 It's by no means standard. It's just,

87 00:04:59.340 --> 00:05:02.970 I want to say it's emphasize on sort of

88 00:05:02.970 --> 00:05:07.163 the core of biostatistics. Next page.

89 00:05:11.620 --> 00:05:15.090 So as I mentioned, we have a decent sized department.

90 00:05:15.090 --> 00:05:18.122 We have 23 teaching faculty and

91 00:05:18.122 --> 00:05:21.220 a 21 secondary faculty.

92 00:05:21.220 --> 00:05:23.690 We also have lectures and adjunct faculty.

93 00:05:23.690 --> 00:05:28.120 So one thing I want to emphasize is when you come here,

94 00:05:28.120 --> 00:05:33.120 you will have access, not just to the biostat department.

95 00:05:33.490 --> 00:05:35.690 You will be a part of school public house

96 00:05:35.690 --> 00:05:38.353 and you will be part of Yale University.

97 00:05:39.908 --> 00:05:43.140 So you will be able to work with long list of

98 00:05:43.140 --> 00:05:46.333 faculty and also our collaborators.

99 00:05:47.613 --> 00:05:52.463 So we have well over a 100 graduate students.

100 00:05:53.927 --> 00:05:57.570 And as you can see here, we have a significant chunk in

101 00:05:59.043 --> 00:06:01.158 number of students in the past year

102 00:06:01.158 --> 00:06:02.610 and for our house from Annex,

103 00:06:02.610 --> 00:06:06.610 this is a very new program. It's still expanding.

104 00:06:06.610 --> 00:06:11.610 It's growing very fast and we have only three second year

105 00:06:12.030 --> 00:06:15.670 students, but we already have Penn first year students.

106 00:06:15.670 --> 00:06:20.650 And we do expect significant growth in house informatics,

107 00:06:20.650 --> 00:06:24.770 as well as you biostatics in the years to come.

108 00:06:24.770 --> 00:06:25.603 next page.

109 00:06:29.220 --> 00:06:33.550 So what you will do, if you do come here,

110 00:06:33.550 --> 00:06:35.580 you will take required courses.

111 00:06:35.580 --> 00:06:38.910 And again, I want to emphasize you will be

112 00:06:38.910 --> 00:06:42.140 exposed to the whole Yale University.

113 00:06:42.140 --> 00:06:44.555 So there will be a long list of a lot of

114 00:06:44.555 --> 00:06:47.218 elective courses you can choose from and

115 00:06:47.218 --> 00:06:50.980 you will be working on practical projects.

116 00:06:50.980 --> 00:06:53.970 If you choose. some of those projects can

117 00:06:53.970 --> 00:06:58.970 turn into master thesis and also about dissertations.

118 00:06:59.800 --> 00:07:04.090 And also our students will do summer interns.

119 00:07:04.090 --> 00:07:09.090 This is true for MS, MPH and PhD students.

120 00:07:09.281 --> 00:07:13.140 And this intern experience has been proven to be highly,

121 00:07:13.140 --> 00:07:16.733 highly invaluable for our past students, next page.

122 00:07:20.750 --> 00:07:22.930 So, as I mentioned,

123 00:07:22.930 --> 00:07:25.640 you will have opportunity to work with our

124 00:07:25.640 --> 00:07:27.940 faculty and our collaborators.

125 00:07:27.940 --> 00:07:32.940 So here's a list of centers you can work in.

126 00:07:33.430 --> 00:07:36.260 And some of them are based in your department,

127 00:07:36.260 --> 00:07:39.385 like YCAS C2S2 and center for Statistical

128 00:07:39.385 --> 00:07:44.190 Genomics Proteomics and Implementation Science Center

129 00:07:44.190 --> 00:07:48.250 Those are all led by our faculty and
130 00:07:48.250 --> 00:07:49.963 the station in our department,
131 00:07:51.018 --> 00:07:53.848 and you will have other opportunities
132 00:07:53.848 --> 00:07:58.848 like Center for Outcome Research and Evalu-
ation.
133 00:08:00.040 --> 00:08:04.590 And also we have a very strong PI with our
134 00:08:04.590 --> 00:08:08.650 local VA hospital and a research center.
135 00:08:08.650 --> 00:08:13.261 So we do have many opportunities within
136 00:08:13.261 --> 00:08:17.370 and outside of the Yale University.
137 00:08:17.370 --> 00:08:18.203 next page.
138 00:08:21.200 --> 00:08:26.100 So peripherally here is a very partial list of
139 00:08:26.100 --> 00:08:28.600 our companies, institutes.
140 00:08:28.600 --> 00:08:31.410 Our master's students, PhD students
141 00:08:32.843 --> 00:08:34.840 have done their interns and also
142 00:08:34.840 --> 00:08:37.410 what they do after they graduate.
143 00:08:37.410 --> 00:08:41.360 So far our master's students actually both MS
and MPH.
144 00:08:41.360 --> 00:08:44.830 If you are interested in pursuing a PhD in
145 00:08:47.730 --> 00:08:51.850 very recent years, we have students going into
Brown, Emory,
146 00:08:51.850 --> 00:08:55.020 Harvard, Rutgers, Penn, Hopkins,
147 00:08:55.020 --> 00:08:57.073 all those top ranking universities.
148 00:08:59.051 --> 00:09:02.320 And of course, we also have quite a few stu-
dents
149 00:09:02.320 --> 00:09:06.790 deciding to stay and do a PhD at Yale.
150 00:09:06.790 --> 00:09:10.320 And also here's a list of companies and
151 00:09:10.320 --> 00:09:11.773 research user details.
152 00:09:12.995 --> 00:09:16.004 So, one thing I want you to say is I think this
is
153 00:09:16.004 --> 00:09:20.600 a really good time to do graduate study in
biostatistics.
154 00:09:20.600 --> 00:09:22.810 The market has been really hot.
155 00:09:22.810 --> 00:09:24.770 And in the past couple of years,

156 00:09:24.770 --> 00:09:28.370 I don't recall a single case where our
157 00:09:28.370 --> 00:09:32.343 students had problem with placement. Next
page.
158 00:09:35.230 --> 00:09:39.651 So what we'll do is now we'll pass the floor to
Chris
159 00:09:39.651 --> 00:09:44.651 Chris is our graduate study director and
160 00:09:45.400 --> 00:09:50.353 he and his team oversees our MS and PhD
programs. Chris
161 00:09:52.260 --> 00:09:53.373 <v ->Thank you, Steven.</v>
162 00:09:54.371 --> 00:09:55.930 And hello everybody.
163 00:09:55.930 --> 00:09:59.643 And I would like to extend a very warm wel-
come to all of you
164 00:10:00.994 --> 00:10:03.423 and thank you for being interested in our
graduate programs.
165 00:10:04.325 --> 00:10:05.501 As Steven said,
166 00:10:05.501 --> 00:10:07.560 I am the director of graduate studies at
167 00:10:07.560 --> 00:10:08.991 the school of public health,
168 00:10:08.991 --> 00:10:12.833 and therefore I oversee the PhD and MS pro-
grams,
169 00:10:13.830 --> 00:10:14.880 as you already heard,
170 00:10:15.817 --> 00:10:17.190 in addition to the MS and PhD program,
171 00:10:17.190 --> 00:10:20.030 we have a master of public health program at
172 00:10:20.030 --> 00:10:21.503 the school of public health.
173 00:10:22.513 --> 00:10:26.463 It;s a two year program and in different disci-
plines.
174 00:10:27.690 --> 00:10:32.690 The real takeaway a message from this slide
is that the MPH,
175 00:10:33.250 --> 00:10:36.060 the master of public health is administered by
176 00:10:36.060 --> 00:10:37.893 the Yale school of public health.
177 00:10:39.354 --> 00:10:40.823 Whereas the PhD and the MS,
178 00:10:41.859 --> 00:10:42.692 the master of science degree is administered
by the
179 00:10:42.692 --> 00:10:46.973 Yale graduate school of arts and sciences.
180 00:10:48.129 --> 00:10:50.550 And that will influence where you apply

181 00:10:50.550 --> 00:10:52.062 for one of these degrees.

182 00:10:52.062 --> 00:10:55.750 And this will be explained more later in our presentations.

183 00:10:55.750 --> 00:10:56.823 Next slide please.

184 00:11:00.126 --> 00:11:02.500 So for the degrees that are offered by the

185 00:11:02.500 --> 00:11:04.650 Yale graduate school of arts and sciences,

186 00:11:04.650 --> 00:11:07.243 we have the master of science program,

187 00:11:08.161 --> 00:11:10.485 which as Steve already mentioned, this,

188 00:11:10.485 --> 00:11:12.960 we have concentrations in biostatistics, health informatics,

189 00:11:12.960 --> 00:11:14.960 chronic disease, epidemiology,

190 00:11:14.960 --> 00:11:18.010 and epidemiology of infectious diseases.

191 00:11:18.010 --> 00:11:21.728 And then we have PhD programs in the six departments in

192 00:11:21.728 --> 00:11:23.850 this school of public health,

193 00:11:23.850 --> 00:11:26.670 and they don't need to mention them all here.

194 00:11:26.670 --> 00:11:28.460 But what we concentrating today is

195 00:11:29.302 --> 00:11:31.073 the PhD program in bio statistics.

196 00:11:31.930 --> 00:11:32.773 Next slide.

197 00:11:33.920 --> 00:11:36.930 And I'll pass it over to Anita who will tell

198 00:11:36.930 --> 00:11:39.630 you more about the master of public health degree

199 00:11:39.630 --> 00:11:41.377 at the school of public health.

200 00:11:42.770 --> 00:11:43.750 <v ->Yes.</v>

201 00:11:43.750 --> 00:11:47.152 Thank you, Chris. So my name is, Anita Wong

202 00:11:47.152 --> 00:11:49.690 I'm an associate professor in the department and

203 00:11:49.690 --> 00:11:54.458 I'm also the department representative in terms of MPH,

204 00:11:54.458 --> 00:11:59.458 the mission for the school for the department.

205 00:12:00.220 --> 00:12:03.970 So tomorrow I'm going to hold a separate session

206 00:12:03.970 --> 00:12:06.990 specifically to talk about more detail about MPH.

207 00:12:06.990 --> 00:12:10.500 So today I'm going to give a very brief introduction

208 00:12:10.500 --> 00:12:14.560 about the MPH program in biostatistics.

209 00:12:14.560 --> 00:12:19.560 So this MPH a degree in biostatistics and

210 00:12:20.250 --> 00:12:24.432 train students in the application of a statistic and

211 00:12:24.432 --> 00:12:26.658 by statistical principles and methods in

212 00:12:26.658 --> 00:12:30.990 the field of health science and medicine, and biology.

213 00:12:30.990 --> 00:12:33.870 Students get opportunity to learn

214 00:12:33.870 --> 00:12:36.110 a full spectrum of public house.

215 00:12:36.110 --> 00:12:40.163 And also in terms of learning of biostatistic methods.

216 00:12:41.038 --> 00:12:45.462 and students get an opportunity here to start

217 00:12:45.462 --> 00:12:48.040 from learning institute, study design

218 00:12:48.040 --> 00:12:50.630 and data management and analysis,

219 00:12:50.630 --> 00:12:54.650 and then this skills propel students for a career in

220 00:12:54.650 --> 00:12:57.710 research, healthcare delivery,

221 00:12:57.710 --> 00:13:01.040 regulatory of firms and industry, you know,

222 00:13:01.040 --> 00:13:03.147 In addition that students

223 00:13:03.147 --> 00:13:06.980 get to exposed to a summer internship and

224 00:13:06.980 --> 00:13:10.332 applied practical experience

225 00:13:10.332 --> 00:13:14.120 to enhance the research skill and

226 00:13:14.120 --> 00:13:19.120 gain real experience related to hands-on work

227 00:13:19.170 --> 00:13:20.383 in public house.

228 00:13:22.020 --> 00:13:27.020 So currently MPH students have options to add one of the

229 00:13:28.870 --> 00:13:31.970 schools, six concentrations and tracks.

230 00:13:31.970 --> 00:13:35.420 So this six concentration tracks

231 00:13:36.402 --> 00:13:39.473 including climate change and health, global health,

232 00:13:40.460 --> 00:13:43.283 maternal child house promotion,

233 00:13:44.382 --> 00:13:45.832 and public house modeling and

234 00:13:46.999 --> 00:13:49.930 the regulatory affairs and the US Health Justice.

235 00:13:49.930 --> 00:13:54.800 So those are great opportunities for students who learn more

236 00:13:54.800 --> 00:13:57.460 public house applications using

237 00:13:57.460 --> 00:13:59.163 the best statistical knowledge.

238 00:14:00.100 --> 00:14:05.100 So as you can see that MPH degree folks

239 00:14:05.110 --> 00:14:08.670 a lot of public house application.

240 00:14:08.670 --> 00:14:13.670 So the MS program offers, you know,

241 00:14:14.992 --> 00:14:19.590 department trained all students to own statistical skills

242 00:14:19.590 --> 00:14:23.370 and knowledge related to the field of biostatistics.

243 00:14:23.370 --> 00:14:28.370 So after what time going finish the MPH introduction.

244 00:14:30.020 --> 00:14:35.020 So most of faculties well focused on the MS program

245 00:14:35.210 --> 00:14:37.943 in our department. Next slide, please.

246 00:14:42.450 --> 00:14:47.450 The requirements for MPH program is that,

247 00:14:48.120 --> 00:14:50.070 so we, we are looking for students who,

248 00:14:52.576 --> 00:14:54.700 or who are we strong quantitative skills

249 00:14:55.689 --> 00:14:57.283 from undergraduate majors.

250 00:14:57.283 --> 00:15:00.980 So in the past that we actually have a very broad students

251 00:15:00.980 --> 00:15:05.306 from very broad disciplines like mathematics, statistics,

252 00:15:05.306 --> 00:15:10.306 psychology, pharmaceuticals, and biological sciences.

253 00:15:11.660 --> 00:15:14.800 So we actually welcome few students

254 00:15:16.200 --> 00:15:18.663 from very broad background.

255 00:15:21.798 --> 00:15:23.710 And so the minimum requirement for application in

256 00:15:24.852 --> 00:15:26.340 the MPH program is including the

257 00:15:26.340 --> 00:15:28.040 college level low key average

258 00:15:28.040 --> 00:15:30.653 calculus and linear algebra.

259 00:15:31.890 --> 00:15:36.890 So we also looking for students that if students have

260 00:15:37.063 --> 00:15:39.963 experienced with statistical programming,

261 00:15:39.963 --> 00:15:41.690 such as R, SAS and Python,

262 00:15:41.690 --> 00:15:45.790 these skills will be a plus in your application,

263 00:15:45.790 --> 00:15:49.990 but this is not required to our curriculum. Also,

264 00:15:49.990 --> 00:15:51.017 I also designed that to enhance your

265 00:15:51.017 --> 00:15:54.363 statistical programming skills you know, program.

266 00:16:00.790 --> 00:16:03.240 So not, I want to emphasize here again,

267 00:16:03.240 --> 00:16:08.093 that for the MPH degree.

268 00:16:12.811 --> 00:16:14.730 So we are looking for students who have a

269 00:16:14.730 --> 00:16:18.220 strong interest in public health.

270 00:16:18.220 --> 00:16:19.313 Next slide, please.

271 00:16:23.660 --> 00:16:26.310 So the last that I said,

272 00:16:26.310 --> 00:16:29.560 what I'm going to cover is give a very brief overview

273 00:16:29.560 --> 00:16:33.890 about the MPH curriculum.

274 00:16:33.890 --> 00:16:38.603 So we require 20 courses for

275 00:16:40.660 --> 00:16:44.610 MPH degree in biostatistics. So, MPH

276 00:16:44.610 --> 00:16:49.610 co curriculum including four core courses related

277 00:16:50.350 --> 00:16:54.590 to public house, including foundation of epic module,

278 00:16:54.590 --> 00:16:57.893 couple of property house, social justice, and house equity,

279 00:16:59.115 --> 00:17:01.620 health policy, and health care system,

280 00:17:01.620 --> 00:17:02.663 are major health threats.

281 00:17:03.621 --> 00:17:07.720 So those are the four major core courses to learn,

282 00:17:08.605 --> 00:17:10.650 to learn public health,

283 00:17:10.650 --> 00:17:14.963 We also have a required courses focused on

284 00:17:14.963 --> 00:17:18.580 best statistical knowledge and skills,

285 00:17:18.580 --> 00:17:21.515 including regression model, survival,

286 00:17:21.515 --> 00:17:24.973 statistical programming and progress area,

287 00:17:25.812 --> 00:17:29.180 and theory of statistics.

288 00:17:29.180 --> 00:17:34.180 We also have designed a year long statistical practice

289 00:17:34.421 --> 00:17:39.421 courses that can help our to students to enhance

290 00:17:39.850 --> 00:17:42.073 the applied practical experience.

291 00:17:42.933 --> 00:17:47.933 And also, this course that has been in the recent years

292 00:17:50.200 --> 00:17:55.200 has been used as a replacement for thesis requirement.

293 00:17:55.825 --> 00:18:00.825 So, the students is not required to complete thesis

294 00:18:01.260 --> 00:18:03.430 but if students are interested in it,

295 00:18:03.430 --> 00:18:08.430 we still provide options for students to, to write thesis

296 00:18:11.676 --> 00:18:14.133 Besides the required course

297 00:18:16.772 --> 00:18:18.680 we also, students who are, have

298 00:18:20.450 --> 00:18:23.330 to complete the eight unit electives

299 00:18:23.330 --> 00:18:25.543 that's approved by the registrar.

300 00:18:27.162 --> 00:18:30.640 A big component of the curriculum also includes

301 00:18:30.640 --> 00:18:34.280 summer internship that helps students to

302 00:18:35.560 --> 00:18:37.123 get exposed to real watch experience.

303 00:18:39.314 --> 00:18:42.230 All right. So, next that I'm going to pass faculties

304 00:18:43.668 --> 00:18:46.373 who are talking about more details about MS program,

305 00:18:50.314 --> 00:18:52.988 I want to emphasize that tomorrow,

306 00:18:52.988 --> 00:18:55.930 I'm going to at nine o'clock in the morning.

307 00:18:55.930 --> 00:18:57.460 So I'm going to give a

308 00:18:58.587 --> 00:19:02.300 separate information session for MPH degree,

309 00:19:02.300 --> 00:19:05.313 if you're interested in, more than welcome to attend.

310 00:19:07.580 --> 00:19:08.713 <v ->Thank you, Anita.</v>

311 00:19:10.669 --> 00:19:12.450 So I'm, my name is Maria Claralaglia

312 00:19:13.512 --> 00:19:14.345 I am an associate professor in the department.

313 00:19:16.212 --> 00:19:17.663 I'm going to talk about the standard pathway,

314 00:19:18.558 --> 00:19:20.560 which Steven mentioned is, is not really,

315 00:19:20.560 --> 00:19:22.980 you know, too descriptive of the name,

316 00:19:22.980 --> 00:19:24.910 that it was the original pathway.

317 00:19:24.910 --> 00:19:28.290 We recently added the data science and

318 00:19:28.290 --> 00:19:30.627 the implementation science pathway.

319 00:19:30.627 --> 00:19:33.793 So this is the standard or the original pathway.

320 00:19:35.570 --> 00:19:37.530 So depending on the pathway that you choose,

321 00:19:37.530 --> 00:19:41.647 they're either 15 or 16 required courses in the MS

322 00:19:41.647 --> 00:19:44.230 and bio statistics program.

323 00:19:44.230 --> 00:19:47.500 There are public health courses,

324 00:19:47.500 --> 00:19:50.540 not as many as the MPH degree,

325 00:19:50.540 --> 00:19:53.710 there are a departmental required courses,

326 00:19:53.710 --> 00:19:56.913 also approved electives, and then the summer internship,

327 00:19:57.855 --> 00:20:01.520 and also the optional master's thesis,

328 00:20:01.520 --> 00:20:05.388 which the practicum the year long consulting course

329 00:20:05.388 --> 00:20:08.620 sync replaces that master's thesis,

330 00:20:08.620 --> 00:20:11.920 although you're still able to do one, and it is encouraged,

331 00:20:11.920 --> 00:20:14.723 strongly encouraged for implementation science students.

332 00:20:15.850 --> 00:20:18.750 So you see that we have for the MS degrees,

333 00:20:18.750 --> 00:20:20.400 no matter the pathway you choose,

334 00:20:21.840 --> 00:20:23.320 there are just two required public health courses,

335 00:20:23.320 --> 00:20:24.630 one in epidemiology,

336 00:20:24.630 --> 00:20:26.893 and then one in frontiers of public health.

337 00:20:28.266 --> 00:20:30.520 There are different departmental required courses

338 00:20:30.520 --> 00:20:32.448 and approved electives,

339 00:20:32.448 --> 00:20:35.043 depending on the pathway that you choose.

340 00:20:35.930 --> 00:20:39.690 And you choose your pathway after you choose to come to Yale

341 00:20:40.530 --> 00:20:41.445 and either the traditional standard pathway,

342 00:20:41.445 --> 00:20:46.445 data science pathway, or implementation science pathway.

343 00:20:47.720 --> 00:20:50.310 And then we have the required summer internship,

344 00:20:50.310 --> 00:20:51.823 that's required of everyone.

345 00:20:54.381 --> 00:20:58.210 The traditional or the standard pathway gives students a

346 00:20:58.210 --> 00:21:02.633 strong foundation, core biostatistics courses,

347 00:21:04.155 --> 00:21:06.340 really the same required departmental courses as the

348 00:21:06.340 --> 00:21:11.340 MPH degree, they'll cover topics, including study design,

349 00:21:11.350 --> 00:21:15.209 statistical inference, regression methods, programming,

350 00:21:15.209 --> 00:21:17.506 and SAS, and R,

351 00:21:17.506 --> 00:21:20.160 and then the statistical consulting for

352 00:21:20.160 --> 00:21:23.280 the variety of electives to choose from.

353 00:21:23.280 --> 00:21:26.840 So you can really make it what you want.

354 00:21:26.840 --> 00:21:28.840 You know, you really hit, you have five,

355 00:21:30.398 --> 00:21:32.877 at least five electives that you can take, five minimum

356 00:21:32.877 --> 00:21:34.960 required electives for this pathway.

357 00:21:34.960 --> 00:21:36.920 But again, as Dr Ma mentioned,

358 00:21:36.920 --> 00:21:41.490 you have many courses available to you outside biostatistics

359 00:21:41.490 --> 00:21:44.773 in the statistics department, in computer science and,

360 00:21:45.671 --> 00:21:47.710 you know, in school management.

361 00:21:47.710 --> 00:21:49.840 So a lot of opportunities,

362 00:21:49.840 --> 00:21:53.100 and we really can make the degree focus on

363 00:21:53.100 --> 00:21:55.540 what you are interested in.

364 00:21:55.540 --> 00:21:58.680 It's really designed to train statisticians,

365 00:21:58.680 --> 00:22:00.460 to work in technology,

366 00:22:00.460 --> 00:22:02.953 biomedical research, pharmaceuticals,

367 00:22:03.825 --> 00:22:05.970 healthcare organizations, and then a lot of our students

368 00:22:05.970 --> 00:22:08.650 go on for doctoral studies and are very successful

369 00:22:08.650 --> 00:22:12.710 in getting into very good doctoral programs.

370 00:22:12.710 --> 00:22:17.190 So now I will pass it on to Dr. Kane,

371 00:22:17.190 --> 00:22:20.190 he'll talk about the data science pathway in the MS program.

372 00:22:21.890 --> 00:22:23.180 <v ->Thanks Maria.</v>

373 00:22:23.180 --> 00:22:26.006 Right. So my name is Michael Kane.

374 00:22:26.006 --> 00:22:28.950 I'm the director of the data science pathway,

375 00:22:28.950 --> 00:22:31.140 essentially for the data science pathway.

376 00:22:31.140 --> 00:22:32.740 There's kind of two parts to it.

377 00:22:33.861 --> 00:22:35.791 The first part is kind of how do you go from,

378 00:22:35.791 --> 00:22:38.691 from theorems to implementation, to algorithm construction

379 00:22:45.293 --> 00:22:48.458 so a lot of what we do then is understand kind of

380 00:22:48.458 --> 00:22:51.034 the mathematical properties of the objects
381 00:22:51.034 --> 00:22:52.479 that we're pretty interested in.
382 00:22:52.479 --> 00:22:55.277 How do we think about applying those to data
383 00:22:55.277 --> 00:22:58.232 so that we can extract information from them?
384 00:22:58.232 --> 00:23:00.351 And then how do we think about algorithms?
385 00:23:00.351 --> 00:23:02.880 So sequences of mathematical operations,
386 00:23:02.880 --> 00:23:05.003 actually build those models and then do pre-
dictions.
387 00:23:06.260 --> 00:23:09.100 So the other part is, kind of,
388 00:23:09.100 --> 00:23:11.490 is a little more software, is a subset of
389 00:23:11.490 --> 00:23:12.593 software engineering.
390 00:23:13.633 --> 00:23:16.290 So in that case, we're mostly interested in
391 00:23:16.290 --> 00:23:17.810 how do we build software systems?
392 00:23:17.810 --> 00:23:21.584 How do we go beyond kind of writing analysis
to thinking
393 00:23:21.584 --> 00:23:23.383 about software that other people are going to
use?
394 00:23:24.258 --> 00:23:26.480 How do we make that such that it's going to
be robust,
395 00:23:26.480 --> 00:23:30.002 such that it can, and then it's going to
396 00:23:30.002 --> 00:23:34.563 be very usable for other people.
397 00:23:37.226 --> 00:23:38.483 So, yeah. Can you go to the next slide?
398 00:23:40.717 --> 00:23:43.556 So for the class that we have
399 00:23:43.556 --> 00:23:47.140 so there are two classes that are specifically
400 00:23:47.140 --> 00:23:49.140 better part of the data science pathway,
401 00:23:50.037 --> 00:23:52.600 along with the other courses that are available
through,
402 00:23:52.600 --> 00:23:54.050 through the stats department.
403 00:23:55.130 --> 00:23:57.210 right now, I'm teaching the data science
404 00:23:57.210 --> 00:23:58.800 software systems class.
405 00:23:58.800 --> 00:24:01.485 And again, so it goes over things like, again,
406 00:24:01.485 --> 00:24:03.853 data analysis using our, you know,

407 00:24:03.853 --> 00:24:05.820 what are the tools that you want to use?
408 00:24:05.820 --> 00:24:08.909 How do you build software systems? in R,
409 00:24:08.909 --> 00:24:11.180 how do you communicate visual information?
410 00:24:11.180 --> 00:24:13.281 So visualizations, tables,
411 00:24:13.281 --> 00:24:16.810 and how do you think about constructing
those
412 00:24:16.810 --> 00:24:20.810 such that you can to help collaborate with
other people?
413 00:24:20.810 --> 00:24:25.650 So I can collaborate with clinicians
414 00:24:25.650 --> 00:24:27.270 on lately clinical trials,
415 00:24:27.270 --> 00:24:31.280 and I'm mostly interested in what prognostic
heterogeneity.
416 00:24:31.280 --> 00:24:33.570 So who are the people that are coming to the
trials and how
417 00:24:33.570 --> 00:24:36.940 do we expect them to do, given that they have
a disease.
418 00:24:36.940 --> 00:24:39.140 So, along with kind of, there's some theory,
419 00:24:39.978 --> 00:24:42.218 there's some computing, but then there's also
this,
420 00:24:42.218 --> 00:24:46.000 there's also this emphasis on collaboration
since this is,
421 00:24:46.000 --> 00:24:50.580 this is interdisciplinary practice.
422 00:24:50.580 --> 00:24:52.330 So is there, is there a next slide?
423 00:24:53.627 --> 00:24:56.887 Okay. So yeah, that's it.
424 00:25:04.780 --> 00:25:06.339 <v ->Hi. Okay.</v>
425 00:25:06.339 --> 00:25:08.090 Well, I'm Donna Spiegelman.
426 00:25:08.090 --> 00:25:10.930 I'm the Susan Dwight bliss professor of bio-
statistics
427 00:25:11.872 --> 00:25:13.940 and I'm director of our center on methods
428 00:25:13.940 --> 00:25:16.290 for implementation and prevention science
429 00:25:16.290 --> 00:25:20.290 and our center, which is a little bit over three
years old
430 00:25:20.290 --> 00:25:24.390 is a very unique one in the country, in the
world,

431 00:25:24.390 --> 00:25:27.077 because it's the only center devoted to methods
432 00:25:27.077 --> 00:25:30.230 and implementation and prevention science.
433 00:25:30.230 --> 00:25:32.220 Now, some of you might be wondering,
434 00:25:32.220 --> 00:25:33.610 what do we even mean by
435 00:25:33.610 --> 00:25:36.219 implementation and prevention science and
436 00:25:36.219 --> 00:25:40.450 the basic idea of implementation and prevention science
437 00:25:40.450 --> 00:25:45.450 is that a very large proportion of deaths and
438 00:25:45.640 --> 00:25:48.929 disease that occur around the world, both in high income,
439 00:25:48.929 --> 00:25:52.290 middle income and low income countries is actually
440 00:25:52.290 --> 00:25:55.810 completely preventable by known interventions.
441 00:25:55.810 --> 00:25:58.343 We call them evidence-based interventions.
442 00:26:00.091 --> 00:26:02.530 And so we don't necessarily need more science,
443 00:26:02.530 --> 00:26:05.380 that is more discovery of new cures for diseases.
444 00:26:05.380 --> 00:26:07.820 That's not true for all diseases, but again,
445 00:26:07.820 --> 00:26:10.070 it's true for the majority of those
446 00:26:10.070 --> 00:26:12.720 causing health issues around the world.
447 00:26:12.720 --> 00:26:17.270 But the issue is of the uptake of these known interventions.
448 00:26:17.270 --> 00:26:21.180 There's a big gap between producing the evidence and
449 00:26:21.180 --> 00:26:24.690 actually disseminating it and scaling it to all of the
450 00:26:24.690 --> 00:26:28.493 populations that could benefit from access.
451 00:26:30.235 --> 00:26:33.620 So implementation science focuses on that, on that step,
452 00:26:33.620 --> 00:26:37.300 the implementation adaption scaling step.
453 00:26:37.300 --> 00:26:42.230 And of course, by doing that, we prevent disease

454 00:26:43.234 --> 00:26:44.334 and we promote health.

455 00:26:46.283 --> 00:26:49.073 So this is a growing field.

456 00:26:49.073 --> 00:26:53.207 There was recently an op-ed and the probably leading journal

457 00:26:53.207 --> 00:26:56.910 in, in the scientific community science,

458 00:26:56.910 --> 00:26:59.640 making the case for implementation science.

459 00:26:59.640 --> 00:27:02.073 And there are centers around the country and

460 00:27:03.018 --> 00:27:05.400 in other countries focused on implementation science,

461 00:27:05.400 --> 00:27:09.010 but none of them are actually focused on methods.

462 00:27:09.010 --> 00:27:13.700 So we play a very unique role in having the center

463 00:27:14.882 --> 00:27:17.340 and my methods, we mean essentially biostatistics,

464 00:27:17.340 --> 00:27:20.890 causal inference and other methods too,

465 00:27:20.890 --> 00:27:23.258 that are not traditionally a part of

466 00:27:23.258 --> 00:27:25.070 what we might think of in the quantitative sciences,

467 00:27:25.070 --> 00:27:29.050 which include advancing methods for qualitative research,

468 00:27:29.050 --> 00:27:33.370 which involves the idea of collecting data

469 00:27:33.370 --> 00:27:35.860 by talking to people individually,

470 00:27:35.860 --> 00:27:40.420 or in groups to find out why are they not taking up this

471 00:27:40.420 --> 00:27:43.810 evidence based intervention? It's not just patients.

472 00:27:43.810 --> 00:27:47.040 It's also providers, directors of health systems,

473 00:27:47.040 --> 00:27:49.320 policy makers, and so forth.

474 00:27:49.320 --> 00:27:52.753 And then there's also the whole issue of health economics.

475 00:27:53.611 --> 00:27:56.352 So we may have an evidence-based intervention,

476 00:27:56.352 --> 00:27:57.185 but is it cost-effective?

477 00:27:57.185 --> 00:27:59.973 and how can we improve its cost-effectiveness?
478 00:28:00.870 --> 00:28:02.660 So that's the big picture,
479 00:28:02.660 --> 00:28:06.120 but this program focuses on the quantitative
side,
480 00:28:06.120 --> 00:28:09.650 which is the biostatistics and causal inference
side.
481 00:28:09.650 --> 00:28:14.490 And so we have these, we have this unique
pathway.
482 00:28:14.490 --> 00:28:18.020 It's the only one I know of that's exists now
and
483 00:28:18.020 --> 00:28:20.271 has ever existed focusing on
484 00:28:20.271 --> 00:28:23.510 implementation and prevention methods.
485 00:28:23.510 --> 00:28:26.230 And so we have the pathway for the
486 00:28:26.230 --> 00:28:29.340 masters of science degree, as well as the PhD.
487 00:28:29.340 --> 00:28:33.270 And we welcome you to apply to either as
your background
488 00:28:33.270 --> 00:28:36.020 and interests in qualifications, see fit,
489 00:28:36.020 --> 00:28:40.760 and to be a really strong implementation
methodologist,
490 00:28:40.760 --> 00:28:43.940 you need to be a really strong biostatistician.
491 00:28:43.940 --> 00:28:48.940 So what we've done is the implementation
science pathway
492 00:28:48.940 --> 00:28:51.990 is absolutely identical to what Maria
493 00:28:51.990 --> 00:28:54.350 was calling the standard pathway.
494 00:28:54.350 --> 00:28:57.770 What it does is it's a rigorous
495 00:28:57.770 --> 00:29:00.370 biostatistical training, plus
496 00:29:00.370 --> 00:29:02.900 and then the plus is that we have
497 00:29:02.900 --> 00:29:05.900 a few additional required courses.
498 00:29:05.900 --> 00:29:08.650 I believe it's two for the master of science
499 00:29:08.650 --> 00:29:10.583 and three for the PhD.
500 00:29:11.500 --> 00:29:15.320 One is the implementation science course of-
fered in our
501 00:29:15.320 --> 00:29:19.540 epidemiology of microbial diseases department
and gives a

502 00:29:19.540 --> 00:29:23.110 sort of subject matter overview of implementation science,
503 00:29:23.110 --> 00:29:26.960 and the background theories and frameworks that are used to
504 00:29:26.960 --> 00:29:31.673 motivate kind of structure implementation science research,
505 00:29:33.097 --> 00:29:35.105 and then causal inference,
506 00:29:35.105 --> 00:29:37.140 which we feel is absolutely essential for
507 00:29:37.140 --> 00:29:38.809 implementation science,
508 00:29:38.809 --> 00:29:41.167 where we're working out in the real world.
509 00:29:41.167 --> 00:29:43.860 Often very large scale studies of 100,000s
510 00:29:43.860 --> 00:29:46.020 of people using at when
511 00:29:46.020 --> 00:29:48.800 possible administrative data.
512 00:29:48.800 --> 00:29:52.420 There's all kinds of data messiness that occurs,
513 00:29:52.420 --> 00:29:54.740 there's issues with who's enrolling,
514 00:29:54.740 --> 00:29:55.920 who's dropping out,
515 00:29:55.920 --> 00:29:58.010 who we get outcomes for it so forth.
516 00:29:58.010 --> 00:30:01.014 So causal inferences are the foundational
517 00:30:01.014 --> 00:30:03.850 type of approach for
518 00:30:03.850 --> 00:30:05.780 implementation and prevention science.
519 00:30:05.780 --> 00:30:09.402 And then the other thing as has been mentioned is
520 00:30:09.402 --> 00:30:11.920 that we prefer very strongly
521 00:30:11.920 --> 00:30:14.670 that students in the master of science
522 00:30:14.670 --> 00:30:18.580 program do a master's thesis in place of
523 00:30:18.580 --> 00:30:21.050 the two semester consulting course.
524 00:30:21.050 --> 00:30:25.130 And of course the master's thesis will be motivated
525 00:30:25.130 --> 00:30:28.870 by implementation science projects that we're engaged in.
526 00:30:28.870 --> 00:30:31.263 And, but we'll be focusing on the methods.
527 00:30:33.030 --> 00:30:35.367 So it's, we're a smaller program.
528 00:30:35.367 --> 00:30:38.653 And It's almost, you might even say by design

529 00:30:38.653 --> 00:30:40.936 because we have four faculty,
530 00:30:40.936 --> 00:30:44.560 four primary faculty kind of who oversee this
program and
531 00:30:44.560 --> 00:30:48.343 teach some of the required courses and mentor
our students.
532 00:30:49.618 --> 00:30:51.310 And we worked very closely with you and
533 00:30:51.310 --> 00:30:54.450 we'll work very closely with you on your mas-
ter's thesis.
534 00:30:54.450 --> 00:30:56.510 And so far, we've had great luck.
535 00:30:56.510 --> 00:30:59.459 Most of the masters, not even most,
536 00:30:59.459 --> 00:31:02.327 I think all of the master's thesis so far
537 00:31:02.327 --> 00:31:03.867 have been submitted for publication.
538 00:31:03.867 --> 00:31:05.980 And a number of them have been published,
539 00:31:05.980 --> 00:31:07.120 as been mentioned,
540 00:31:07.120 --> 00:31:11.310 our students have gone on to outstanding PhD
programs in the
541 00:31:11.310 --> 00:31:14.859 United States and one in the UK and
542 00:31:14.859 --> 00:31:19.440 this kind of a program is for you.
543 00:31:19.440 --> 00:31:23.550 If you're interested in applying your quanti-
tative knowledge
544 00:31:23.550 --> 00:31:26.560 to literally improve public health around the
world
545 00:31:26.560 --> 00:31:29.350 and especially in disparities,
546 00:31:29.350 --> 00:31:32.560 disenfranchised populations and so forth.
547 00:31:32.560 --> 00:31:36.190 And so projects, we work on include things
like
548 00:31:36.190 --> 00:31:40.360 increasing the uptake of cervical cancer screen-
ing
549 00:31:40.360 --> 00:31:43.410 and followup after abnormal screen,
550 00:31:43.410 --> 00:31:47.170 cervical cancer is almost a completely pre-
ventable disease.
551 00:31:47.170 --> 00:31:48.810 Yet let's say for example,
552 00:31:48.810 --> 00:31:52.150 the second leading cause of cancer mortality
in Mexico.

553 00:31:52.150 --> 00:31:53.710 So in the United States,
554 00:31:53.710 --> 00:31:55.640 almost nobody gets cervical cancer.
555 00:31:55.640 --> 00:31:58.880 In Mexico, women who die of cancer'
556 00:31:58.880 --> 00:32:02.160 quite frequently are dying of cervical cancer.
557 00:32:02.160 --> 00:32:05.710 So this is what we mean by preventable dis-
eases
558 00:32:05.710 --> 00:32:08.347 with evidence-based interventions.
559 00:32:08.347 --> 00:32:11.639 We're also working on stigma in cancer.
560 00:32:11.639 --> 00:32:14.300 We're working in Nepal, we're working in
South Africa
561 00:32:14.300 --> 00:32:18.020 we're working right here in New Haven and
there's
562 00:32:18.020 --> 00:32:20.950 a whole range of possibilities of projects.
563 00:32:20.950 --> 00:32:24.040 You can be involved in data analysis' or
564 00:32:24.040 --> 00:32:26.980 most of our students choose to work on
565 00:32:26.980 --> 00:32:29.310 methodologic research, which could include
566 00:32:29.310 --> 00:32:33.670 working out the mathematics of a particular
problem,
567 00:32:33.670 --> 00:32:38.670 proving the properties of estimators, study
design problems
568 00:32:39.720 --> 00:32:42.871 simulation studies, and so forth.
569 00:32:42.871 --> 00:32:45.280 So, and our PhD program again is
570 00:32:45.280 --> 00:32:48.530 identical to the standard pathway PhD,
571 00:32:48.530 --> 00:32:50.680 but we have these additional requirements
that
572 00:32:50.680 --> 00:32:54.170 I've mentioned and will also involve
573 00:32:54.170 --> 00:32:57.140 the PhD thesis should be motivated by
574 00:32:57.140 --> 00:32:59.210 implementation science in some way.
575 00:32:59.210 --> 00:33:02.570 And then the last thing I'd like to mention is
576 00:33:02.570 --> 00:33:04.773 we're very excited that we have
577 00:33:04.773 --> 00:33:07.671 what's called a 2 32 or training grant from
578 00:33:07.671 --> 00:33:10.870 the National Institute of Health for our PhD
program.

579 00:33:10.870 --> 00:33:13.789 We have three students already enrolled in that,

580 00:33:13.789 --> 00:33:16.100 through that mechanism.

581 00:33:16.100 --> 00:33:18.470 And for those of you who are US citizens

582 00:33:18.470 --> 00:33:20.901 or green card holders,

583 00:33:20.901 --> 00:33:23.141 which is the requirement of the

584 00:33:23.141 --> 00:33:26.740 U.S. NIH training grant program, it's not ours,

585 00:33:26.740 --> 00:33:31.080 but if you satisfy those criteria and

586 00:33:31.080 --> 00:33:33.620 you're interested in implementation science,

587 00:33:33.620 --> 00:33:35.990 also, we encourage you to apply and

588 00:33:35.990 --> 00:33:37.956 be in touch with me.

589 00:33:37.956 --> 00:33:40.570 And we can see about the suitability

590 00:33:40.570 --> 00:33:42.510 for you to come in through training grant,

591 00:33:42.510 --> 00:33:44.650 which covers your tuition,

592 00:33:44.650 --> 00:33:46.660 your stipend, and so forth.

593 00:33:46.660 --> 00:33:50.170 So I think I've pretty much given an overview of

594 00:33:50.170 --> 00:33:53.710 what we're doing with our implementation science pathways.

595 00:33:53.710 --> 00:33:58.710 I can pass it back to, I think it might be Maria or no,

596 00:33:58.969 --> 00:34:00.453 I think it's Cindy, Cindy brant.

597 00:34:01.830 --> 00:34:03.680 <v ->Actually it's me, but</v>

598 00:34:03.680 --> 00:34:04.963 <v ->Robert McDougal.</v>

599 00:34:05.830 --> 00:34:07.858 <v ->All right. Hey everybody.</v>

600 00:34:07.858 --> 00:34:09.092 So I'm Robert McDougal.

601 00:34:09.092 --> 00:34:11.740 I'm an assistant professor here in the department.

602 00:34:11.740 --> 00:34:12.930 So this is slightly different.

603 00:34:12.930 --> 00:34:14.720 This is a separate Master's degree.

604 00:34:14.720 --> 00:34:17.730 The other three things were pathways that you choose

605 00:34:17.730 --> 00:34:19.860 after you've been accepted into Yale.

606 00:34:19.860 --> 00:34:22.130 This is a separate program that you applied to,

607 00:34:22.130 --> 00:34:25.070 this is the Masters of Health and Dramatics.

608 00:34:25.070 --> 00:34:27.510 If you're not familiar with Informatics,

609 00:34:27.510 --> 00:34:29.060 just think of it as the study of how to

610 00:34:29.060 --> 00:34:32.350 represent, store, integrate and communicate

611 00:34:32.350 --> 00:34:34.750 information and how to apply domain knowledge.

612 00:34:34.750 --> 00:34:37.186 In our case health and public health

613 00:34:37.186 --> 00:34:40.777 to data to try and deliver new insights.

614 00:34:40.777 --> 00:34:44.410 So our program seeks to provide you with a broad training

615 00:34:44.410 --> 00:34:46.630 and information, science, data science,

616 00:34:46.630 --> 00:34:51.240 and clinical consumer health population, health informatics.

617 00:34:51.240 --> 00:34:53.283 You're going to learn how to use data,

618 00:34:54.202 --> 00:34:55.330 information and knowledge to improve the health and

619 00:34:55.330 --> 00:34:58.200 wellbeing of individuals and populations.

620 00:34:58.200 --> 00:35:00.360 And of course, you're going to get exposure

621 00:35:00.360 --> 00:35:02.103 to computational techniques.

622 00:35:03.030 --> 00:35:05.150 I'm definitely partly responsible for that.

623 00:35:05.150 --> 00:35:08.710 I teach a computational methods course, but you know,

624 00:35:08.710 --> 00:35:11.063 Informatics is so much wider than that.

625 00:35:11.960 --> 00:35:13.970 And our courses are going to also expose you to things,

626 00:35:13.970 --> 00:35:16.700 questions about data representation and the health,

627 00:35:16.700 --> 00:35:19.670 user centered design, clinical decision support,

628 00:35:19.670 --> 00:35:21.653 and more, you're not just going to be

629 00:35:21.653 --> 00:35:23.090 sitting around writing code.

630 00:35:23.090 --> 00:35:25.653 You're going to be working with data,
631 00:35:25.653 --> 00:35:27.156 thinking about data and thinking about
632 00:35:27.156 --> 00:35:28.153 how to apply it to solve problems.
633 00:35:29.075 --> 00:35:29.908 Can we go to the next slide please?
634 00:35:30.870 --> 00:35:34.916 All right. So what do you do to actually go
into this work?
635 00:35:34.916 --> 00:35:35.900 It's a very diverse field, right?
636 00:35:35.900 --> 00:35:38.043 We're trying to do healthy things,
637 00:35:38.043 --> 00:35:39.148 trying to do computer things,
638 00:35:39.148 --> 00:35:40.657 we're trying to analyze data.
639 00:35:40.657 --> 00:35:42.580 And so one of the things that we do in par-
ticular
640 00:35:42.580 --> 00:35:44.494 for this master's program is we
641 00:35:44.494 --> 00:35:45.995 try to make sure that we bring in
642 00:35:45.995 --> 00:35:48.010 people with a wide range of backgrounds.
643 00:35:48.010 --> 00:35:51.117 And so the idea here is that we, you know,
we've got,
644 00:35:51.117 --> 00:35:53.820 people with a medical degree taking this.
645 00:35:53.820 --> 00:35:55.780 We've got nursing students, we've got math
students,
646 00:35:55.780 --> 00:35:58.580 we've got biology students. And by working
together,
647 00:35:58.580 --> 00:36:01.003 we can all, you know, share a knowledge and
648 00:36:01.003 --> 00:36:02.980 everybody knows something and
649 00:36:02.980 --> 00:36:05.120 collectively we can grow much faster.
650 00:36:05.120 --> 00:36:07.760 So the main thing that I would say, you know,
651 00:36:07.760 --> 00:36:10.520 try to have some something health, computer
science,
652 00:36:10.520 --> 00:36:11.960 mathematics, statistics related,
653 00:36:11.960 --> 00:36:13.780 but don't focus too much on that.
654 00:36:13.780 --> 00:36:16.820 Make sure that you're able, that you're good
at what you do.
655 00:36:16.820 --> 00:36:18.820 And you're able to share your knowledge.

656 00:36:19.780 --> 00:36:21.086 Can we go to the next slide?
657 00:36:21.086 --> 00:36:26.086 So the degree here requires a total of 14 courses.
658 00:36:26.800 --> 00:36:29.830 So it is the same two public health courses
659 00:36:29.830 --> 00:36:32.579 as the MS and biostatistics.
660 00:36:32.579 --> 00:36:34.510 We do have, can you click?
661 00:36:34.510 --> 00:36:36.230 I think there's another, yeah,
662 00:36:36.230 --> 00:36:40.790 we do have eight required health informatics focus courses.
663 00:36:40.790 --> 00:36:44.240 And again, I just want to say point out that these are,
664 00:36:44.240 --> 00:36:45.610 you know, even if you're not taking
665 00:36:45.610 --> 00:36:47.560 the Health Informatics track,
666 00:36:47.560 --> 00:36:50.030 you're certainly welcome to take these courses
667 00:36:50.030 --> 00:36:52.550 and we invite you to do so.
668 00:36:52.550 --> 00:36:54.400 So these are going to cover some,
669 00:36:54.400 --> 00:36:57.320 some things are more computational, more data science,
670 00:36:57.320 --> 00:37:01.743 more conceptual, it's all there, more clinical,
671 00:37:02.610 --> 00:37:03.960 this huge range of things.
672 00:37:03.960 --> 00:37:06.533 And in addition to these eight required courses,
673 00:37:07.527 --> 00:37:09.360 we also have four additional
674 00:37:09.360 --> 00:37:11.488 and you can click two for this.
675 00:37:11.488 --> 00:37:15.430 We also invite you to do four additional courses
676 00:37:15.430 --> 00:37:18.560 more if your schedule permits and
677 00:37:18.560 --> 00:37:20.610 you can take these things from biostatistics,
678 00:37:20.610 --> 00:37:23.805 we've got computational biology and bioinformatics,
679 00:37:23.805 --> 00:37:25.150 lab statistics and data science,
680 00:37:25.150 --> 00:37:28.040 and really anything that's relevant from
681 00:37:28.040 --> 00:37:29.303 across the University.

682 00:37:30.376 --> 00:37:31.650 We can work with you to see
683 00:37:31.650 --> 00:37:33.950 if it's appropriate for this degree.
684 00:37:33.950 --> 00:37:34.833 Right. Thank you.
685 00:37:38.150 --> 00:37:40.610 <v ->Okay. I think I'm going to go first.</v>
686 00:37:40.610 --> 00:37:42.000 Hi everyone.
687 00:37:42.000 --> 00:37:45.273 My name is Mary Keefe. Can you all see me?
688 00:37:46.195 --> 00:37:49.270 Okay, good. My name is Mary Keefe.
689 00:37:49.270 --> 00:37:52.410 I am the director of admissions for the MPH
program
690 00:37:52.410 --> 00:37:54.683 and I'm joining, keeping an eye on the clock.
691 00:37:56.107 --> 00:37:57.923 I know we want to be able to allow you all to
ask questions.
692 00:37:58.784 --> 00:38:01.050 So I'm going to go through this a little quickly,
693 00:38:01.050 --> 00:38:03.376 but would encourage any of you with ques-
tions.
694 00:38:03.376 --> 00:38:05.613 I know we're giving you a lot of information
today
695 00:38:05.613 --> 00:38:06.446 and can be a little bit confusing
696 00:38:06.446 --> 00:38:08.010 to reach out to me separately.
697 00:38:08.010 --> 00:38:09.491 If you'd like,
698 00:38:09.491 --> 00:38:11.619 I'd be happy to set up an individual meeting
699 00:38:11.619 --> 00:38:13.430 or answer questions via email.
700 00:38:13.430 --> 00:38:16.210 I will be on Anita's call tomorrow morning
about
701 00:38:16.210 --> 00:38:19.910 the MPH program and biostatistics it's at
9:00 AM.
702 00:38:19.910 --> 00:38:22.360 And there was a registration link on our web-
site
703 00:38:22.360 --> 00:38:25.920 that we hope you will a link through.
704 00:38:25.920 --> 00:38:30.040 We will also have a session on Thursday
evening at 7:30
705 00:38:30.970 --> 00:38:35.280 with our current MPH students in biostats
that may help you
706 00:38:35.280 --> 00:38:37.950 get an appreciation for what their experience

707 00:38:37.950 --> 00:38:39.930 is in the department,
708 00:38:39.930 --> 00:38:42.090 in the Yale school of public health and what
it's like to be
709 00:38:42.090 --> 00:38:44.640 a student at Yale and living in New Haven.
710 00:38:44.640 --> 00:38:46.420 We found those can be really helpful, again,
711 00:38:46.420 --> 00:38:50.280 that there's a link to that in our website as
well.
712 00:38:50.280 --> 00:38:55.170 So the MPH is offered through the school of
public health.
713 00:38:55.170 --> 00:38:57.338 As Chris alluded to earlier,
714 00:38:57.338 --> 00:39:00.210 we have a separate application process
715 00:39:00.210 --> 00:39:01.971 than the MS or PhD program..
716 00:39:01.971 --> 00:39:04.561 Applicants who apply to the MPH
717 00:39:04.561 --> 00:39:06.750 must apply through SOPHAS.
718 00:39:06.750 --> 00:39:10.460 That is the schools of public health application
service,
719 00:39:10.460 --> 00:39:11.798 all of your documentation and
720 00:39:11.798 --> 00:39:14.067 supporting letters of recommendation
721 00:39:14.067 --> 00:39:17.104 along with your resume and test score,
722 00:39:17.104 --> 00:39:22.104 TOEFL will be submitted through that portal.
723 00:39:22.640 --> 00:39:26.300 We utilize a rolling process of admissions.
724 00:39:26.300 --> 00:39:27.770 So we are actually going to
725 00:39:27.770 --> 00:39:30.290 start reviewing applications next week.
726 00:39:30.290 --> 00:39:32.810 And the deadline is December 15th,
727 00:39:32.810 --> 00:39:36.100 which simply means you have to submit all
the information
728 00:39:37.528 --> 00:39:39.954 that the SOPHAS application asks for,
729 00:39:39.954 --> 00:39:42.000 pay SOPHAS and click submit,
730 00:39:42.000 --> 00:39:44.420 the supporting documentation can come in
731 00:39:44.420 --> 00:39:47.353 following the December 15th deadline.
732 00:39:48.466 --> 00:39:49.780 We will review applications probably
733 00:39:50.818 --> 00:39:51.651 all the way through February.

734 00:39:53.394 --> 00:39:54.703 And as you can see on the slide,
735 00:39:55.649 --> 00:39:57.190 we do require the TOEFL for applicants
736 00:39:57.190 --> 00:40:00.640 whose language of instruction was other than
English
737 00:40:00.640 --> 00:40:02.083 in their degree programs.
738 00:40:02.983 --> 00:40:06.763 And we are looking for a score of at least 100
or better.
739 00:40:06.763 --> 00:40:11.763 We have waived the GRE requirement for our
MPH applicants.
740 00:40:12.030 --> 00:40:14.430 This is our second year in doing so.
741 00:40:14.430 --> 00:40:18.330 However we do look for evidence of quantita-
tive ability and
742 00:40:18.330 --> 00:40:21.360 that can, has, seems to be causing a lot of
confusion.
743 00:40:21.360 --> 00:40:23.960 So information is on our website about that,
744 00:40:23.960 --> 00:40:26.923 but that is another thing we'll discuss tomor-
row
745 00:40:26.923 --> 00:40:27.756 in our MPH session.
746 00:40:27.756 --> 00:40:30.750 And I'm happy to work on you with under-
standing what,
747 00:40:30.750 --> 00:40:34.950 how to clarify that I would like to make this
point clear.
748 00:40:34.950 --> 00:40:38.900 I think Anita alluded to this earlier successful
applicants
749 00:40:38.900 --> 00:40:43.900 to the MPH program do have to have a focus
or interest area
750 00:40:44.500 --> 00:40:47.930 or question in public health that they're look-
ing to solve
751 00:40:47.930 --> 00:40:51.227 and focus on in their studies.
752 00:40:51.227 --> 00:40:53.150 And you have to be able to articulate this
753 00:40:53.150 --> 00:40:55.010 in your personal statement.
754 00:40:55.010 --> 00:40:57.660 Your connection to public health is crucial to
755 00:40:57.660 --> 00:41:01.010 being a successful applicant to the MPH pro-
gram.

756 00:41:01.010 --> 00:41:05.761 So be sure to concentrate on that and articulate that for,

757 00:41:05.761 --> 00:41:09.460 for us in your statement of purpose help.

758 00:41:09.460 --> 00:41:12.220 Sometimes, hopefully your letters of recommendation

759 00:41:12.220 --> 00:41:14.490 can help clarify that as well,

760 00:41:14.490 --> 00:41:17.825 but we will have other information sessions throughout the

761 00:41:17.825 --> 00:41:20.207 course of the year that you're welcome to attend.

762 00:41:20.207 --> 00:41:22.810 And these are all available on our website as well.

763 00:41:22.810 --> 00:41:25.330 So now I'm going to pass it over to Melanie Elliott,

764 00:41:25.330 --> 00:41:29.463 who is going to discuss the Ms and PhD application process.

765 00:41:31.040 --> 00:41:32.900 <v ->Thank you everybody.</v>

766 00:41:32.900 --> 00:41:36.150 So the. PhD program is a full-time program

767 00:41:36.150 --> 00:41:39.760 and students should apply.

768 00:41:39.760 --> 00:41:43.137 This gets a little confusing through the graduate school of

769 00:41:43.137 --> 00:41:45.320 arts and sciences to the department of public health,

770 00:41:45.320 --> 00:41:49.503 and then choose biostatistics as their concentration.

771 00:41:51.050 --> 00:41:53.750 Also for both the MS and PhD,

772 00:41:53.750 --> 00:41:57.300 you will be asked to choose a pathway

773 00:41:57.300 --> 00:41:59.760 at the time of your application.

774 00:41:59.760 --> 00:42:04.760 That said you do have until January, you know,

775 00:42:05.707 --> 00:42:07.607 the second semester of your first year

776 00:42:08.673 --> 00:42:09.773 to change the pathway.

777 00:42:10.900 --> 00:42:12.847 We just want to have some indication

778 00:42:12.847 --> 00:42:15.880 of the interest when you're applying.

779 00:42:15.880 --> 00:42:20.880 So you do have to also submit TOEFL scores,
780 00:42:21.130 --> 00:42:25.013 our policy for both the PhD and the MS.
781 00:42:25.013 --> 00:42:27.660 And this is the graduate school's policy is
that
782 00:42:27.660 --> 00:42:32.660 if your undergraduate education was in En-
glish,
783 00:42:32.860 --> 00:42:34.963 you are waived from the TOEFL.
784 00:42:36.896 --> 00:42:39.633 And unfortunately for those in the PhD ap-
plicant pool,
785 00:42:40.664 --> 00:42:44.840 this means that if you have a master's from
a US university
786 00:42:44.840 --> 00:42:46.640 or the university where English was
787 00:42:47.645 --> 00:42:48.903 the primary language of instruction,
788 00:42:49.750 --> 00:42:52.680 but your undergraduate was not in taught in
English,
789 00:42:52.680 --> 00:42:54.800 you do still have to submit the TOEFL
790 00:42:56.330 --> 00:43:00.585 and the code is there 3, 9, 8, 7,
791 00:43:00.585 --> 00:43:04.130 the GRE is required for both the MS
792 00:43:04.130 --> 00:43:07.620 and the PhD in Biostatistics.
793 00:43:07.620 --> 00:43:09.920 It is not required for the MS and
794 00:43:09.920 --> 00:43:11.333 Health Informatics.
795 00:43:14.532 --> 00:43:19.307 Our MS Program, you can apply for the MS
and
796 00:43:19.307 --> 00:43:23.640 the MPH program at the same time.
797 00:43:23.640 --> 00:43:27.510 And many, many applicants do that because,
you know,
798 00:43:27.510 --> 00:43:31.810 they want to sort of get a sense of, you know,
799 00:43:31.810 --> 00:43:35.360 which program would be a better fit. And
during the process,
800 00:43:35.360 --> 00:43:37.730 they can do some more exploratory research
801 00:43:37.730 --> 00:43:40.120 and make a better decision When they're
admitted.
802 00:43:40.120 --> 00:43:43.730 You cannot apply for the PhD and the MS at
the same time

803 00:43:43.730 --> 00:43:45.823 you have to pick one or the other,
804 00:43:47.520 --> 00:43:50.920 as Mary said that the application deadline for
her program
805 00:43:50.920 --> 00:43:54.543 is the 15th of December. Ours is also Decem-
ber 15th.
806 00:43:55.480 --> 00:43:57.900 We do not review on a rolling basis.
807 00:43:57.900 --> 00:44:00.843 We review all at the same time and
808 00:44:04.204 --> 00:44:06.050 a couple of other things, the PhD program,
809 00:44:06.050 --> 00:44:09.223 our average time to graduation is five years.
810 00:44:10.580 --> 00:44:14.075 And as was mentioned earlier,
811 00:44:14.075 --> 00:44:17.550 our graduates all get positions in great com-
panies
812 00:44:17.550 --> 00:44:21.653 throughout the United States and internation-
ally also.
813 00:44:25.667 --> 00:44:27.200 So I think I've covered everything.
814 00:44:27.200 --> 00:44:30.103 I just want to mention for the MS and Health
Informatics,
815 00:44:31.099 --> 00:44:33.351 that will be the same idea when you apply,
816 00:44:33.351 --> 00:44:35.661 you'll have to pick Public Health and then
817 00:44:35.661 --> 00:44:38.803 Health Informatics will populate as a choice.
818 00:44:40.078 --> 00:44:40.911 And you'll choose that.
819 00:44:41.804 --> 00:44:43.000 But again, if you have any questions,
820 00:44:43.000 --> 00:44:45.620 my name is on the website and
821 00:44:45.620 --> 00:44:48.000 I'm available to answer your questions on
email or
822 00:44:48.000 --> 00:44:50.033 have a separate meeting. Thank you.
823 00:44:52.730 --> 00:44:54.950 <v ->So before we move on to questions,</v>
824 00:44:54.950 --> 00:44:58.340 I just want to really quickly thank my col-
leagues for
825 00:44:58.340 --> 00:45:00.103 very comprehensive information.
826 00:45:01.813 --> 00:45:03.800 And one thing I want to mention is
827 00:45:03.800 --> 00:45:07.030 even though we have different programs, dif-
ferent pathways,

828 00:45:07.030 --> 00:45:11.460 this is really one highly highly integrated program.

829 00:45:11.460 --> 00:45:15.329 So if you are in the data science pathway,

830 00:45:15.329 --> 00:45:17.990 you are welcome to do implementation science projects

831 00:45:17.990 --> 00:45:21.175 with Donna and her team and

832 00:45:21.175 --> 00:45:23.700 how you can definitely take courses in

833 00:45:23.700 --> 00:45:28.053 House informatics and also outside of the department.

834 00:45:30.385 --> 00:45:32.136 And, well, this is a lot of information.

835 00:45:32.136 --> 00:45:35.944 So we are going to let her post these slides and also our

836 00:45:35.944 --> 00:45:37.113 videotape.

837 00:45:38.421 --> 00:45:43.421 And I'm going to give the last 13- 15 minutes to questions.

838 00:45:46.932 --> 00:45:48.682 I think someone just typed in chat.

839 00:45:51.540 --> 00:45:54.583 <v ->Can you please mention the online executive program?</v>

840 00:45:58.871 --> 00:46:01.607 So that program is that program is different.

841 00:46:01.607 --> 00:46:03.970 It's offered through the school of public health.

842 00:46:03.970 --> 00:46:04.970 They also let's see.

843 00:46:07.076 --> 00:46:09.051 <v ->I can, I can address that a little bit Maria,</v>

844 00:46:09.051 --> 00:46:10.201 if you'd like me to

845 00:46:10.201 --> 00:46:11.444 <v ->That'll be great.</v>

846 00:46:11.444 --> 00:46:14.490 <v ->Okay, Yeah, that's a brand new program.</v>

847 00:46:14.490 --> 00:46:18.550 Actually. We have our first cohort enrolled now.

848 00:46:18.550 --> 00:46:21.810 We rolled it out last August and

849 00:46:23.630 --> 00:46:26.923 it is designed for working professionals.

850 00:46:26.923 --> 00:46:30.899 It is as the line implies and name implies, excuse me,

851 00:46:30.899 --> 00:46:33.660 and online program. It is a hybrid program.

852 00:46:33.660 --> 00:46:36.034 However, it's, part-time over two years,
853 00:46:36.034 --> 00:46:39.940 it requires three visits to the Yale campus
854 00:46:39.940 --> 00:46:41.650 for what we call Intensives.
855 00:46:41.650 --> 00:46:46.280 Those are five days of a program design study
that take
856 00:46:46.280 --> 00:46:50.863 place two in the first year and one in the third
year.
857 00:46:53.747 --> 00:46:58.270 It requires participation in evening discussion
groups,
858 00:46:58.270 --> 00:47:00.420 which at this point are taking place
859 00:47:00.420 --> 00:47:02.523 at 8:00 PM in the evening.
860 00:47:03.690 --> 00:47:07.570 And it does have a focus in biostatistics and
861 00:47:07.570 --> 00:47:10.330 epidemiology is one of the tracks that
862 00:47:10.330 --> 00:47:14.840 you can apply for and enroll in.
863 00:47:14.840 --> 00:47:19.300 Currently, our cohort is about 38-39 students.
864 00:47:19.300 --> 00:47:22.493 We are looking to grow the program a little
bit this year.
865 00:47:23.900 --> 00:47:26.466 One of the challenges, however,
866 00:47:26.466 --> 00:47:29.370 is that you have to be in residence in the
United States
867 00:47:29.370 --> 00:47:31.893 during the full two years of the program.
868 00:47:32.906 --> 00:47:34.843 This has nothing to do with the School of
Public Health.
869 00:47:35.801 --> 00:47:37.803 This is a Yale University requirement,
870 00:47:37.803 --> 00:47:39.160 and it has to do with taxes and
871 00:47:39.160 --> 00:47:40.910 things well above my pay grade.
872 00:47:40.910 --> 00:47:44.530 So we have not been able to open this program
up yet,
873 00:47:44.530 --> 00:47:47.323 to students who are residing internationally.
874 00:47:48.360 --> 00:47:51.240 We will host some executive online sessions
875 00:47:52.124 --> 00:47:54.010 across the next couple of weeks,
876 00:47:54.010 --> 00:47:56.255 which you're welcome to join in.
877 00:47:56.255 --> 00:47:58.310 Also, it's a really unique program.

878 00:47:58.310 --> 00:48:00.900 So happy to answer questions separately from
879 00:48:00.900 --> 00:48:03.110 this presentation about that,
880 00:48:03.110 --> 00:48:04.860 for anyone who might be interested.
881 00:48:05.820 --> 00:48:07.370 I don't know if that's helpful,
882 00:48:08.254 --> 00:48:10.087 sort of a very brief overview.
883 00:48:10.087 --> 00:48:12.293 <v ->Yeah. Can I ask a question?</v>
884 00:48:13.860 --> 00:48:14.693 <v ->Yeah, please.</v>
885 00:48:15.843 --> 00:48:17.373 <v Joseph>Yeah. Currently I'm an
Indian,</v>
886 00:48:18.280 --> 00:48:21.230 I'm currently in the Antigua. Island of An-
tigua
887 00:48:21.230 --> 00:48:23.830 in here in the Caribbean.
888 00:48:23.830 --> 00:48:27.363 And I did my masters in hospital administra-
tion.
889 00:48:28.557 --> 00:48:31.213 Currently, I'm attached with the medical
school.
890 00:48:32.390 --> 00:48:35.374 American university of Antigua here.
891 00:48:35.374 --> 00:48:37.083 I'm working as a part-time facilitator.
892 00:48:38.328 --> 00:48:41.366 So will there be any course which is associated
with the
893 00:48:41.366 --> 00:48:46.366 doctoral or the master's program, which I can
enroll in.
894 00:48:48.828 --> 00:48:51.310 It can be a hybrid or a hundred percent online
program.
895 00:48:51.310 --> 00:48:52.860 Is there any program like that?
896 00:48:55.470 --> 00:48:57.983 Like now you have mentioned that the online
MPH
897 00:48:58.853 --> 00:49:01.140 the program is exclusively for those people
898 00:49:01.140 --> 00:49:03.073 who are residing in the US.
899 00:49:04.030 --> 00:49:05.650 I am residing in the Caribbean.
900 00:49:05.650 --> 00:49:10.037 And is there any program which is open for
901 00:49:10.037 --> 00:49:12.687 those people who are saying other than United
States?
902 00:49:14.069 --> 00:49:15.440 <v ->Good question, Joseph.</v>

903 00:49:15.440 --> 00:49:16.690 Thank you for allowing me
904 00:49:17.555 --> 00:49:18.790 to clarify that at this point.
905 00:49:18.790 --> 00:49:21.280 No, we are working closely with
906 00:49:21.280 --> 00:49:23.643 the University or the program director,
907 00:49:24.750 --> 00:49:27.102 actually, and the office of international stu-
dents
908 00:49:27.102 --> 00:49:28.690 and scholars, and some other groups to try
909 00:49:28.690 --> 00:49:30.170 and open it up for next year,
910 00:49:30.170 --> 00:49:32.300 but as for the following year for
911 00:49:32.300 --> 00:49:34.140 the admission process next year,
912 00:49:34.140 --> 00:49:36.973 which would be enrollment in the following
year.
913 00:49:36.973 --> 00:49:38.550 So at this point, unfortunately, no,
914 00:49:38.550 --> 00:49:41.460 and as Robert McDougal did just remind me
915 00:49:41.460 --> 00:49:43.010 and put in the chat, thank you.
916 00:49:44.097 --> 00:49:47.290 There is a health informatics track for the
executive MPH
917 00:49:47.290 --> 00:49:49.840 program, but at this point, unfortunately, no,
918 00:49:49.840 --> 00:49:53.710 we can only allow students who will be in
residence
919 00:49:53.710 --> 00:49:55.580 for the whole two year term.
920 00:49:55.580 --> 00:49:58.433 And it's about just, just for you know,
921 00:49:58.433 --> 00:50:00.040 sort of planning purposes.
922 00:50:00.040 --> 00:50:01.090 It requires two, and
923 00:50:01.090 --> 00:50:04.280 at what we call two and a half courses per
semester,
924 00:50:04.280 --> 00:50:06.770 in order to complete the program with a
summer,
925 00:50:06.770 --> 00:50:08.163 start to the curriculum.
926 00:50:10.541 --> 00:50:12.130 So Joseph, that's something to stay in touch
with me
927 00:50:13.164 --> 00:50:14.915 about over next year.

928 00:50:14.915 --> 00:50:17.370 We're working hard to get this, but it's beyond us.

929 00:50:17.370 --> 00:50:19.643 It's a University situation.

930 00:50:20.950 --> 00:50:22.444 <v ->I chose Yale only because my sister-in-law</v>

931 00:50:22.444 --> 00:50:24.713 is that in Connecticut.

932 00:50:26.507 --> 00:50:29.533 So frequently I'll be coming and going to connect together.

933 00:50:29.533 --> 00:50:31.380 It'll be easy for me to communicate with

934 00:50:31.380 --> 00:50:33.313 the University in person, even.

935 00:50:35.736 --> 00:50:37.080 So that was my concern

936 00:50:38.330 --> 00:50:39.163 All right.

937 00:50:41.418 --> 00:50:45.223 <v ->Yeah, can you rethink hands on?</v>

938 00:50:46.820 --> 00:50:50.852 <v ->Thanks. If I have two questions, one last one,</v>

939 00:50:50.852 --> 00:50:53.410 the first question is a wander for the PhD student

940 00:50:54.464 --> 00:50:56.064 in the biostatistics department,

941 00:50:56.942 --> 00:50:58.810 will it be possible for me to find a quarter wise

942 00:50:58.810 --> 00:51:01.401 from other departments, for example,

943 00:51:01.401 --> 00:51:04.313 the computer science or computational biology, since.

944 00:51:09.860 --> 00:51:11.930 <v ->Steven, did you want me to answer that?</v>

945 00:51:11.930 --> 00:51:13.110 Yep.

946 00:51:13.110 --> 00:51:13.943 Okay.

947 00:51:15.110 --> 00:51:18.700 We prefer that you only have one advisor

948 00:51:18.700 --> 00:51:19.970 for your dissertation,

949 00:51:19.970 --> 00:51:24.970 but when you do develop your research project,

950 00:51:24.990 --> 00:51:28.310 you will have a dissertation advisory committee.

951 00:51:28.310 --> 00:51:30.265 And on that committee,

952 00:51:30.265 --> 00:51:33.120 you can have faculty from other departments,
953 00:51:33.120 --> 00:51:36.625 as long as you know, their research aligns,
954 00:51:36.625 --> 00:51:40.010 and they will provide you with information
955 00:51:40.010 --> 00:51:43.660 and resources that aligns with your topic.
956 00:51:43.660 --> 00:51:44.910 But when you first start,
957 00:51:45.862 --> 00:51:48.170 the first two years are fully course,
958 00:51:48.170 --> 00:51:49.003 you know, full coursework.
959 00:51:49.894 --> 00:51:52.203 So you will be assigned to a PhD advisor,
960 00:51:53.392 --> 00:51:57.110 an advisor in the biostatistics department
during that time.
961 00:51:57.110 --> 00:51:59.880 But as you move on to your dissertation,
962 00:51:59.880 --> 00:52:03.190 you can explore other people to mentor you.
963 00:52:03.190 --> 00:52:04.890 And then somebody asked a question
964 00:52:05.884 --> 00:52:07.634 about the fees for the PhD program.
965 00:52:08.890 --> 00:52:12.323 The PhD program is fully funded for five
years.
966 00:52:13.641 --> 00:52:15.770 We provide you with a stipend.
967 00:52:15.770 --> 00:52:18.953 We pay your health insurance and your tu-
tion.
968 00:52:19.950 --> 00:52:24.727 And the stipend is about 36,000 to 37,000 a
year
969 00:52:28.240 --> 00:52:33.240 at this time for PhD students in biostatistics.
970 00:52:37.060 --> 00:52:40.093 <v ->Another question is along there, I
mean,</v>
971 00:52:41.100 --> 00:52:44.240 what is the importance of the GRE exam in
972 00:52:44.240 --> 00:52:45.943 the application process.
973 00:52:47.077 --> 00:52:48.593 I mean, what condition will you use?
974 00:52:49.511 --> 00:52:52.910 Sorry, this is the score to evaluate applications,
975 00:52:52.910 --> 00:52:56.253 for example, after interview or at first, thanks.
976 00:52:57.740 --> 00:53:02.740 <v ->So, it's upon coming how we use GRE,
has I referenced?</v>
977 00:53:06.199 --> 00:53:07.155 <v ->I'm sorry, Steve.</v>
978 00:53:07.155 --> 00:53:08.223 Who was that question directed to?

979 00:53:10.030 --> 00:53:12.663 <v ->Well, I know Anita, please.</v>
980 00:53:13.740 --> 00:53:17.620 So my understanding is we don't require GRE,
but I,
981 00:53:19.250 --> 00:53:21.850 let me rephrase that question. So it's not
required.
982 00:53:23.614 --> 00:53:24.520 Right. And so question is
983 00:53:25.518 --> 00:53:27.773 can student still take the exam,
984 00:53:27.773 --> 00:53:31.103 some made hand. Nobody. We still use that
for information.
985 00:53:32.700 --> 00:53:35.550 <v ->Yeah. So are they, are we asking about
the MPH program?</v>
986 00:53:37.345 --> 00:53:39.553 <v ->Sorry. I'm asking for the PhD program,
right?</v>
987 00:53:43.070 --> 00:53:45.613 <v ->Chris, did you want to talk about that
or?</v>
988 00:53:47.198 --> 00:53:50.417 <v ->Sure, sure. We do require the GRE,
but</v>
989 00:53:53.060 --> 00:53:57.950 I would say that this is not a major factor to
decide
990 00:53:57.950 --> 00:54:01.000 whether you are a fit for the program.
991 00:54:01.000 --> 00:54:03.613 What we really looking for is what I just said,
992 00:54:04.559 --> 00:54:06.510 that are you a fit for the program and do
993 00:54:06.510 --> 00:54:10.290 your research interests fit with the research
interests
994 00:54:10.290 --> 00:54:13.040 or the faculty in biostatistics?
995 00:54:13.040 --> 00:54:17.080 That's the major criteria that we look at,
996 00:54:17.080 --> 00:54:20.483 and that obviously comes through in your
personal statement.
997 00:54:21.980 --> 00:54:22.863 <v ->Okay. Thanks.</v>
998 00:54:27.540 --> 00:54:32.540 <v ->So Elizabeth, do you have a ques-
tion?</v>
999 00:54:40.926 --> 00:54:42.093 Okay. And man.
1000 00:54:44.522 --> 00:54:46.037 <v Man>Hi. Thank you.</v>
1001 00:54:46.037 --> 00:54:50.140 So basically I have a question that I remem-
ber someone

1002 00:54:50.140 --> 00:54:55.140 mentioned that if we apply through SOPHAS,

1003 00:54:55.680 --> 00:55:00.680 our supplemental materials can come later than the deadline.

1004 00:55:03.600 --> 00:55:08.600 Like, can I understand it in this way that

1005 00:55:08.910 --> 00:55:13.910 if I have accumulated three recommendation letters and

1006 00:55:14.040 --> 00:55:19.040 I want to add a reference letter after December 15th,

1007 00:55:20.690 --> 00:55:23.210 it is possible, right?

1008 00:55:23.210 --> 00:55:24.400 <v ->Oh, okay.</v>

1009 00:55:24.400 --> 00:55:26.430 So thank you for, for asking that

1010 00:55:27.330 --> 00:55:30.940 maybe what I said was a little confusing or misleading.

1011 00:55:30.940 --> 00:55:35.030 No. In the section of the application where you're asked

1012 00:55:35.030 --> 00:55:37.120 to provide letters of recommendation,

1013 00:55:37.120 --> 00:55:39.120 they will ask you prior to the,

1014 00:55:39.120 --> 00:55:43.610 or by the December 15th deadline to provide the names and

1015 00:55:43.610 --> 00:55:45.830 contact information for the people who

1016 00:55:45.830 --> 00:55:49.159 will be writing letters of evaluation or recommendation

1017 00:55:49.159 --> 00:55:50.532 on your behalf.

1018 00:55:50.532 --> 00:55:53.050 And then SOPHAS will send them information as

1019 00:55:53.050 --> 00:55:55.270 to how to submit those letters.

1020 00:55:55.270 --> 00:55:59.269 So all anyone that you want to have write a letter,

1021 00:55:59.269 --> 00:56:03.469 well, you'll have to have provided the information to SOPHAS

1022 00:56:03.469 --> 00:56:06.501 prior to the December 15th deadline, their letters,

1023 00:56:06.501 --> 00:56:08.501 however can come in after that deadline.

1024 00:56:09.459 --> 00:56:10.540 Is that how

1025 00:56:10.540 --> 00:56:12.119 <v ->Cool. Cool.</v>
1026 00:56:12.119 --> 00:56:15.621 That's very helpful. And so I have a follow-up question.
1027 00:56:15.621 --> 00:56:18.690 So if not through SOPHAS platform,
1028 00:56:18.690 --> 00:56:21.830 because I'm applying for PhD program.
1029 00:56:21.830 --> 00:56:23.860 <v ->Okay.</v> <v ->Yeah.</v>
1030 00:56:23.860 --> 00:56:28.550 Is it possible that through the Yale platform
1031 00:56:31.327 --> 00:56:34.810 and I have meet this three reference letter requirement
1032 00:56:34.810 --> 00:56:39.810 and I, I submit my application before December 15th, but
1033 00:56:40.850 --> 00:56:45.850 I still want to add an extra recommendation letter.
1034 00:56:48.168 --> 00:56:49.001 Is it possible?
1035 00:56:50.632 --> 00:56:53.783 <v ->So did you already press the submit button for</v>
1036 00:56:53.783 --> 00:56:56.062 your graduate school PhD application?
1037 00:56:56.062 --> 00:56:58.312 Or are you still working on your application?
1038 00:57:01.553 --> 00:57:04.240 <v ->I think, I think I had to press my</v>
1039 00:57:05.134 --> 00:57:07.530 submit button before December 15th, right?
1040 00:57:07.530 --> 00:57:08.750 <v ->Yes.</v>
1041 00:57:08.750 --> 00:57:11.243 But if you want to add a fourth reference,
1042 00:57:12.110 --> 00:57:13.917 if that's what your question is,
1043 00:57:13.917 --> 00:57:16.520 and you haven't submitted your application yet to
1044 00:57:16.520 --> 00:57:18.773 graduate school of arts and sciences,
1045 00:57:19.894 --> 00:57:22.830 then you can go back in and add a fourth person
1046 00:57:22.830 --> 00:57:24.850 as a letter of reference.
1047 00:57:24.850 --> 00:57:27.860 But if you've already submitted your application
1048 00:57:28.813 --> 00:57:30.360 and you know, basically said,
1049 00:57:30.360 --> 00:57:32.113 you're done with your piece of it,

1050 00:57:33.487 --> 00:57:35.166 then you need to email me and
1051 00:57:35.166 --> 00:57:37.610 I need to work with graduate school
1052 00:57:37.610 --> 00:57:39.813 admissions office to help you get that done.
1053 00:57:41.260 --> 00:57:42.950 <v ->Okay. So,</v>
1054 00:57:42.950 --> 00:57:47.280 so it means that I can add the fourth
1055 00:57:48.609 --> 00:57:50.583 Professor's contact information on my,
1056 00:57:52.450 --> 00:57:55.387 on my profile and submit it,
1057 00:57:55.387 --> 00:57:56.760 and the fourth recommendation letter
1058 00:57:56.760 --> 00:58:00.600 can come after December 15th, right?
1059 00:58:00.600 --> 00:58:03.194 <v ->Yeah. The letters, you know,</v>
1060 00:58:03.194 --> 00:58:05.557 you have no control over when the letters
come,
1061 00:58:05.557 --> 00:58:08.530 they are asked to be submitted by December
15th and
1062 00:58:08.530 --> 00:58:13.005 we hope to get them no later than January
1st or second.
1063 00:58:13.005 --> 00:58:15.830 You know, if your person,
1064 00:58:15.830 --> 00:58:20.830 your reference ask for a couple extra days,
you know,
1065 00:58:21.560 --> 00:58:24.283 January first or second is fine after that, it,
1066 00:58:25.762 --> 00:58:27.462 it is difficult for us to evaluate
1067 00:58:28.506 --> 00:58:31.960 if you don't have a full set of references on
file.
1068 00:58:31.960 --> 00:58:34.834 But that said we would reach out to you
1069 00:58:34.834 --> 00:58:39.172 if we wanted to try to get those references
expedited.
1070 00:58:39.172 --> 00:58:40.960 <v ->Okay. Thank you.</v>
1071 00:58:40.960 --> 00:58:41.973 That's very helpful.
1072 00:58:43.980 --> 00:58:45.953 <v ->So there's another question,
Chad,</v>
1073 00:58:47.456 --> 00:58:49.006 c'mon quick answer Maria Anita.
1074 00:58:51.339 --> 00:58:52.273 <v ->So the question is,</v>

1075 00:58:53.213 --> 00:58:55.778 is there a difference between gap year students or
students or
1076 00:58:55.778 --> 00:58:57.932 students who already have a master degree
in
1077 00:58:57.932 --> 00:58:59.423 terms of admission probability?
1078 00:59:00.430 --> 00:59:02.123 I don't know those numbers.
1079 00:59:03.112 --> 00:59:06.750 if we have information on students who've
taken a year off
1080 00:59:06.750 --> 00:59:09.260 and their chance of being admitted,
1081 00:59:09.260 --> 00:59:11.160 if you already have a master's degree.
1082 00:59:12.548 --> 00:59:13.698 Well, I don't know.
1083 00:59:13.698 --> 00:59:15.027 It just really depends on your
1084 00:59:15.027 --> 00:59:17.893 level of preparation, your background.
1085 00:59:19.463 --> 00:59:22.410 If you already have a master's degree, you
probably already,
1086 00:59:22.410 --> 00:59:25.940 you know, coursework and maybe this area
or a related area,
1087 00:59:25.940 --> 00:59:27.123 but you don't,
1088 00:59:28.370 --> 00:59:32.416 I don't think really would we have informa-
tion on that,
1089 00:59:32.416 --> 00:59:33.982 on those rates,
1090 00:59:33.982 --> 00:59:36.693 the likelihood of being admitted under dif-
ferent scenarios,
1091 00:59:38.111 --> 00:59:41.276 we wouldn't, it wouldn't bias our decision in
any way,
1092 00:59:41.276 --> 00:59:42.109 if you took a year off.
1093 00:59:44.904 --> 00:59:46.361 <v ->Okay, it's now too.</v>
1094 00:59:46.361 --> 00:59:48.393 I want you to thank all of you for our interest
and
1095 00:59:48.393 --> 00:59:51.030 also my colleagues again, for your time.
1096 00:59:51.030 --> 00:59:54.140 And for all students interested in applying,
1097 00:59:54.140 --> 00:59:57.180 please do so before the deadline.
1098 00:59:57.180 --> 01:00:00.410 And if you are interested in talking to any
of us

1099 01:00:00.410 --> 01:00:03.850 and also our faculty who are not here today,
1100 01:00:03.850 --> 01:00:06.230 you can find our contact information online.
1101 01:00:06.230 --> 01:00:07.923 So just the drop an email.
1102 01:00:09.394 --> 01:00:11.330 And if you want to talk to existing student,
1103 01:00:11.330 --> 01:00:16.330 master PhD student, get some site information,
1104 01:00:16.583 --> 01:00:18.040 you can also do that.
1105 01:00:18.040 --> 01:00:23.040 We will be happy to make that connection.
And again,
1106 01:00:23.706 --> 01:00:27.690 we are going to post our slides and also this record.
1107 01:00:27.690 --> 01:00:32.690 So really hope to see our applications and hope to see you
1108 01:00:33.266 --> 01:00:37.320 in person next fall. Thank you to all.