

10:12:55 From Sarah MacGillivray to All panelists : Great job, Joyce!
10:13:36 From Joyce Malyn-Smith to Pat Riley - Webinar
Coordinator(Privately) :
We forgot About the Polls Can we add the first poll after suzanne speaks?
10:14:19 From Pat Riley - Webinar Coordinator to Joyce
Malyn-Smith(Privately) : Whenever you are ready. Just let me know. I also got a
question about the definition of "middle skill data practitioner". Can you address
that when you get the chance?
10:14:20 From Joyce Malyn-Smith to Pat Riley - Webinar
Coordinator(Privately) : I'll ask you to put up the polls after suzanne
speaks
10:14:35 From Paul Hansford : knime is a great open source tool!
10:15:02 From Kelly Fitzpatrick : This is 24 credits. Is that a lot for a
certificate at a two year college?
10:15:20 From Paul Hansford : comparable to tools like alteryx etc.
10:16:28 From Joyce Malyn-Smith : The Data Practitioner is a job title
created by the expert panel to describe the work they held in common as middle
skilled data workers. they defined the Data Practitioner as a person who "in
service of an organization and/or stakeholders, supports the data life cycle by
collecting, transforming, and analyzing data, and communicating results in order to
inform and guide decision making."
10:16:41 From Michael Harris to All panelists : It depends on what the
goal of the certificate is, 24 is a good amount for a decent introduction to the
field.
10:16:47 From Paul Hansford : there are levels of certificates with
various credit levels
10:17:04 From Jeff Thies : @ Kelly No, relatively normal cert size. Some
as low as 18, some as high as 30
10:17:21 From Kelly Fitzpatrick : Thank you
10:18:27 From Sarah MacGillivray to All panelists : We're doing great
on time, fyi.
10:18:32 From Kelly Fitzpatrick : How many students at Johnson CC?
10:18:49 From Radhika Ramjee to All panelists : Do you use R
programming at all
10:19:06 From Michael Harris to All panelists : I will talk a bit
about it, but I do in my courses
10:19:17 From Jeff Thies : Greatest challenge is COVID moving our focus.
10:20:20 From Paul Hansford : We have Math courses that have R in them
10:21:05 From Kelly Fitzpatrick : We also run R in our Stats and DS
courses. We are using Python in the computer science classes.
10:21:58 From Sarah MacGillivray : To join the Community of Practice,
visit the ODI website: <http://oceansofdata.org/data-pathways-community-practice>
10:22:05 From Jennifer Travis : Pat, I'm curious.... how many people are
attending the webinar?
10:22:49 From Pat Riley - Webinar Coordinator : We currently have a little
over 50 in attendance. It has been fluctuating between 50 and 55.
10:23:29 From Paul Hansford : We have a python for analytics course in CS
as well which is common for dat analytics related courses
10:23:29 From Suzanne Smith to All panelists : We used R along with
Python for a couple of years. Lately, all instructors have moved to Python.

10:23:39 From Joyce Malyn-Smith : Most of our colleagues consider middle skilled data workers to be those people who work on data teams - contributing various tasks to the full data effort -

10:24:13 From Joyce Malyn-Smith : A middle skilled data worker would, for example, not be the data scientist leading the effort - but be part of the work team carrying it out.

10:25:34 From Wayne Lewis : Michael Harris and I share geographic and familial sleep deprivation data.

10:25:53 From Maula Allen to All panelists : which industries were/are being consulted?

10:26:39 From Jerome Tuttle : Absolutely agree with domain specialization. I have seen analyses from people who clearly did not understand an industry, and their analyses were foolish.

10:27:59 From Joyce Malyn-Smith : We have also found the Gap Analysis tool to be a useful tool in generating dialog between the colleges and their business partners - because it focused on the tasks included in the profile, with the specificity of the verbs, the resulting dialog has been energetic, focused and resulted, often, in a closer relationship between the college and local employers.

10:28:00 From Paul Hansford : We have done this all well through certifications in areas of specialty: GIS, Healthcare, marketing, Accounting, UAS, etc. spreading out data analytics offering across the campus

10:28:54 From Kelly Fitzpatrick : Where will the slides be posted? AMATYC prof. Development page?

10:30:10 From Julie Hanson : The recording and slides will be posted on AMATYC's webinar webpage, as well as the AMATYC Statistics Resources webpage. It usually takes a week or two before they are posted.

10:30:29 From William Velez : I am interested in programs that link the CC curriculum with that of a university. How many examples are there of CC/university partnerships that have managed to create a seamless program of study for students to allow them to complete a 4 year degree. What are the barriers in creating such a partnership.

10:31:18 From Jeff Thies : First level certs with Statistics, do your MAT Stats courses have a College Algebra Prerequisite? If so is that a challenge for industry students?

10:31:18 From Paul Hansford : It is usually the math requirements that make the articulation paths possible

10:31:25 From Pat Riley - Webinar Coordinator : The PowerPoint and recording will be posted on the Webinar section at amatyc.org within the next day or so. In addition, I will send these by email to all who register.

10:32:08 From Lynette Painter : We have a CC/University partnership with our program; the challenges included not having too many credits at the CC level before transferring to the university within the program requirements

10:32:56 From Jeff Thies : Are the programs available fully online?

10:33:04 From James Polzin : MinneAnalytics - Twin Cities Industry Users' Group with more than 10,000 members! Free membership. Several annual seminars. Weekly webcasts.

10:33:10 From James Polzin : <http://minneanalytics.org/>

10:34:33 From Kelly Fitzpatrick : Do you have the link to this matrix?

10:34:49 From Suzanne Smith : Some of our courses are taught online but not all yet. In the fall, those that are not totally online will be taught

remotely using Zoom. We hope to eventually move all courses online.

10:35:20 From Suzanne Smith : We used R along with Python for a couple of years. Lately, all instructors have moved to Python.

10:35:37 From Lynette Painter : Most courses are offered online in our program

10:36:13 From Jerome Tuttle : There seems to be some rivalry between R and Python. I am a fledgling here, but my broad generalization is that math folks prefer R, and computer science folks prefer Python. As a quick example, in R it takes me one command to open and read a file. In Python it takes one statement to open a file, and a second statement to read it. In R it takes me one statement to do a square root. In Python it takes me one statement to open the math library, and a second to use it to a square root.

10:36:55 From Kelly Carey : will recording of this be sent out?

10:37:20 From Pat Riley - Webinar Coordinator : The PowerPoint and recording will be posted on the Webinar section at amatyc.org within the next day or so. In addition, I will send these by email to all who register.

10:37:25 From Yeng Miller-Chang : As someone who has used R and now uses Python for my current data analyst position, I am glad that I am starting students out in R rather than Python, since using Pandas (in my opinion) requires some understanding of object-oriented programming to use effectively.

10:37:37 From Kelly Fitzpatrick : Jerome I agree - I am in math so I use R. I don't want to learn Python so our CS folks picked that up

10:37:49 From Susan Uland : Will it be possible to save the chat information? Thanks!

10:38:03 From Pat Riley - Webinar Coordinator : Yes, I can save and send the chat as well.

10:38:33 From James Rauff : Our data science program is a track within the mathematics major. We use Python.

10:38:47 From Sarah MacGillivray : We will share links to where you can access these tools later in the presentation.

10:38:56 From Kelly Fitzpatrick : So nice to hear others using Tableau. I just taught myself how to use it. I think it is great!

10:39:22 From Michael Harris to All panelists : I would like to say they R and Python are complementary rather than competing. There are some things that R does well and others Python does well. As a generalizations though, R tends to me more for math because it is an open source statistics language, whereas Python is a full blown computer language which does statistics. Depending on the company though, they may have R, Python, SAS or some other language.

10:39:51 From Jerome Tuttle : Hi Kelly.

10:41:12 From Annie Han : What is the diff bet Level 3A and 3B?

10:41:13 From Jennifer Travis : Can someone talk about the credentials needed for faculty to teach these courses? Who can teach them? Do the different accreditation bodies have similar requirements in different parts of the country?

10:41:18 From Sarah MacGillivray to All panelists : Presenters - Joyce will pick up after Paul, then I'll read off a couple of questions. Feel free to add your thoughts once she's done, then I'll read off some questions.

10:41:48 From Pamela Pape-Lindstrom to All panelists : I am also interested in learning about how to determine appropriate faculty credentials.

Thanks.

10:42:48 From Maula Allen to All panelists : what was the process in finding faculty who could teach the data analytics courses (ML, viz, ...). Are there pre-quals to be able to teach the courses.

10:42:49 From Robert Tudor to All panelists : Sarah: can you have Paul speak to the Level 3A versus level 3B Associates.

10:42:50 From William Velez : I want to mention a semester broad program in Mexico in data analysis. Here is the website:<https://mathsciencesgto.cimat.mx/>

10:43:46 From Paul Hansford : The difference is calculus courses for articulation

10:44:21 From William Velez : I want to mention a semester abroad program in Mexico in data analysis. Here is the website:<https://mathsciencesgto.cimat.mx/> This is held in the spring semester. I am the chair of the advisory committee for this program and would be happy to provide any further information.

10:45:01 From Suzanne Smith : To teach our courses, we require a masters degree in either mathematics, data science, or computer science. If there is not a masters degree but 18 hours or more in those areas, then they can be considered if they also have some good industry experience.

10:46:36 From James Rauff : We've placed graduates with agribusiness, insurance, aerospace, and gambling casinos.

10:46:50 From Paul Hansford : for industry in the Midwest, we have an Air Force base near by, large hospital system, and lots of mid size companies tech, manufacturing etc

10:49:04 From Kelly Fitzpatrick : I think there are more business analytics at 4 years

10:49:15 From Paul Hansford : our next challenge is working on pathways to near by 4 year schools and marketing of our data related programs

10:49:34 From James Rauff : Try us: <https://millikin.edu/mathematics>

10:50:04 From Radhika Ramjee to All panelists : I have to do the R and statistics course next spring. Could I get some help to develop the curriculum. I am in the math department

10:50:25 From James Rauff : If you have an associates degree and calculus, you can transfer seamlessly.

10:50:44 From Rick Cleary : Bill Velez and I are co-chairing a national task force sponsored by TPSE Math (www.tpsemath.org) on alternate pathways to math major; including ones that don't necessarily start with calculus. We hope to publicize the kind of four year programs you need, and encourage more math departments to take part. Please contact either of us if you have ideas in this area.

10:51:05 From Maula Allen to All panelists : what have enrollments been like

10:51:34 From Jennifer Travis : The math department at big university near us (most common destination for our transfers) just started offering a new degree option: BS in Mathematics - Data Science Option

10:51:43 From Kelly Fitzpatrick : Our stats requires a non credit algebra class - not college algebra

10:52:44 From Yeng Miller-Chang : For the program I am in, there is a new 4-year program which requires Calc. I through III, and requires two semesters of calculus-based statistics as part of the major

10:53:01 From Yeng Miller-Chang : Correction: For the (two-year) program, there is a *local 4-year program

10:53:40 From Paul Hansford : in Ohio to teach, I think you need 18 hrs of domain experience (CS/IT etc) for HCL requirements

10:53:58 From Michael Harris to All panelists : Radhika, open into to statistics from Duke uses R along side learning stats up through linear regression

10:54:40 From Jennifer Travis : Suzanne, most of our math faculty have a MS in math but would not have the knowledge to teach theses courses....I assume you would also vet their knowledge? But just having the MS is enough to be "qualified on paper"?

10:55:53 From James Rauff : Our data science faculty have graduate degrees in mathematics, computational linguistics, business, and statistics. We all retrained.

10:57:27 From William Velez : This has been a very informative presentation. Thanks.

10:57:32 From Joe Ippolito to All panelists : Great job all!

10:57:48 From Kelly Fitzpatrick : This was excellent thank you!

10:59:18 From Maula Allen to All panelists : how have industry adjuncts been able to adapt to teaching and various students' needs -- any program in college to help them adapt

10:59:32 From Sarah MacGillivray to All panelists :
<https://go.edc.org/BigDataCareer>

10:59:45 From Sarah MacGillivray : Tools presented:
<https://go.edc.org/BigDataCareer>

11:00:09 From Sarah MacGillivray : Link to the profile:
<https://go.edc.org/ProfileofDP>

11:00:15 From Lynette Painter : This was great - thank you!

11:00:45 From Paul Hansford : we do offer courses face to face, online, hybrid, and CBE for most all of the CIS/IT courses

11:00:53 From James Rauff : Thank you panelists and Pat. Very helpful!

11:00:59 From Paul Hansford : face to face is a little challenging with COVID

11:01:01 From Pamela Pape-Lindstrom : Thank you! Great information!!

11:01:03 From Matthew Prager to All panelists : Thank you!

11:01:04 From Robert Tudor to All panelists : Thank you, panelists!
Well done!

11:01:04 From Annie Han : THANK YOU!!

11:01:17 From Maula Allen to All panelists : thank you very much!
great information

11:01:18 From Jennifer Travis : Fantastic webinar, thank you so much to all the panelists!

11:01:26 From Brent Wilson : Thank you! Great information! Very well presented!

11:01:41 From Sarah MacGillivray : Please join our COP:
<http://oceansofdata.org/data-pathways-community-practice>

11:01:50 From Margaret Rejto : Super webinar - thanks to all!

11:02:01 From Pat Riley - Webinar Coordinator : <https://bit.ly/070820web>

11:02:04 From Joyce Malyn-Smith to All panelists : I think we are done.

11:02:11 From Suzanne Smith : We require the adjunct interviewees to do a teaching demo so we are able to find those who will be good with students.
11:02:16 From Julie Guelich to All panelists : Thank you! Excellent presentation.
11:03:10 From Pat Riley - Webinar Coordinator : Link to webinar evaluation <https://bit.ly/070820web>

11:03:16 From Paul Hansford : thank you AMATYC!
11:03:48 From Radhika Ramjee to All panelists : I have to do the R and statistics course next spring. Could I get some help to develop the curriculum. I am in the math department
11:04:07 From Michael Harris to All panelists : Hi Radhika, e-mail me at mdharris@bhcc.mass.edu
11:04:09 From Rick Cleary : Wonderful webinar, thanks!
11:04:26 From Paul Hansford : Radhika joining the community of practice
11:04:30 From Kendrick Hang to All panelists : Thank you, all!