

COMMONWEALTH OF PENNSYLVANIA

LABOR RELATIONS BOARD

\* \* \* \* \*

U.S. STEEL, PAPER AND FORESTRY, \*  
RUBBER, MANUFACTURING, ENERGY, \*  
ALLIED-INDUSTRIAL AND SERVICE \*  
WORKERS INTERNATIONAL UNION \*  
AFL-CIO CLC, \*

Petitioner

\*No.: PERA-R-17-355-W

~vs~

UNIVERSITY OF PITTSBURGH, \*

Respondent \*

\* \* \* \* \*

HEARING TRANSCRIPT

\* \* \* \* \*

BEFORE: STEPHEN A. HELMERICH, Hearing Examiner

HEARING: Tuesday, October 30, 2018

9:21 a.m.

LOCATION: Hilton Garden Inn

Pittsburgh University Place

3454 Forbes Avenue

Pittsburgh, PA 15213

Reporter: Kaylyn Shaffer

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1 WITNESSES: David Swigon, Ph.D.  
2 Maria Mori Brooks, Ph.D.  
3 Paul Foreancig, Ph.D.  
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A P P E A R A N C E S (cont.)

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97	Thesis	1501	1607
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EXHIBITS NOT ATTACHED

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EXHIBITS NOT ATTACHED



## P R O C E E D I N G S

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HEARING EXAMINER: We are back on the record in day six of PERA-R-17-355-W. Why don't we introduce the counsel for the petitioning union?

ATTORNEY HEALEY: Michael Healey of Healey, Block & Hornack in Pittsburgh, PA.

ATTORNEY MANZOLILLO: Brad Manzolillo, United Steelworkers.

ATTORNEY SHARMA: Maneesh Sharma, United Steelworkers.

ATTORNEY KILBERT: Nathan Kilbert, United Steelworkers.

HEARING EXAMINER: And counsel for the Respondent, University?

ATTORNEY FARMER: Shannon Farmer, of Ballard Spahr, Philadelphia, PA.

ATTORNEY DANTE: Meredith Dante, Ballard Spahr, Philadelphia, Pennsylvania.

ATTORNEY CORLEONE: Gianni Corleone, Ballard Spahr, Cherry Hill, New Jersey.

HEARING EXAMINER: Any preliminary issues that you'd like to bring to my attention?

ATTORNEY FARMER: None for us.

HEARING EXAMINER: I still have an

1 outstanding motion to quash certain evidence or  
2 subpoena requests for some disciplinary and health  
3 records.

4 Does the Union have anything they want  
5 to add or say about that outstanding motion to quash  
6 at this time? Have you gotten sufficient  
7 information from - via the witnesses? Or do you -  
8 what do you have as to the motion to quash?

9 ATTORNEY HEALEY: Can we talk it over  
10 in a break?

11 HEARING EXAMINER: That's fine.

12 ATTORNEY HEALEY: Okay.

13 HEARING EXAMINER: Do you have  
14 anything to add to your motion to quash at this time  
15 or will you address it as the week goes on?

16 ATTORNEY FARMER: Yeah. That's fine.

17 HEARING EXAMINER: All right.

18 We are on the Defense case in chief.  
19 Where are we at?

20 ATTORNEY FARMER: It's our case.

21 HEARING EXAMINER: All right. You're  
22 in Defense. Okay. Raise your right hand for me.

23

---

24

DAVID SWIGON, PH.D.,

25 CALLED AS A WITNESS IN THE FOLLOWING PROCEEDING, AND

1 HAVING FIRST BEEN DULY SWORN, TESTIFIED AND SAID AS  
2 FOLLOWS:

3 ---

4 HEARING EXAMINER: Spell your name for  
5 us.

6 THE WITNESS: My name is David Swigon,  
7 S-W-I-G-O-N.

8 HEARING EXAMINER: Okay.

9 Your witness, then.

10 ATTORNEY DANTE: Thank you.

11 ---

12 DIRECT EXAMINATION

13 ---

14 BY ATTORNEY DANTE:

15 Q. Dr. Swigon, where are you currently  
16 employed?

17 A. I'm employed by the University of  
18 Pittsburgh.

19 Q. In what capacity are you employed by the  
20 University?

21 A. I am a Graduate Director in the  
22 Mathematics Department.

23 Q. Do you - are you also appointed as a  
24 professor?

25 A. Yes.

1 I am an associate professor in that same  
2 department.

3 Q. How long have you been the Director of  
4 Graduate Studies?

5 A. For the past six years. This is my sixth  
6 year.

7 Q. What are your responsibilities as a DGS?

8 A. As a Director of Graduate Studies, I  
9 oversee the progress of our graduate students.

10 Q. In which school is the Department of  
11 Mathematics housed?

12 A. It's in the Dietrich School of Arts and  
13 Sciences.

14 Q. Can you tell us -?

15 HEARING EXAMINER: Dietrich?

16 THE WITNESS: Dietrich.

17 BY ATTORNEY DANTE:

18 Q. Can you tell us just briefly about your  
19 educational background?

20 A. Yes.

21 I got my undergraduate degree in  
22 Charleston University and Prague. And then PhD and  
23 Master degrees in - at Rutgers University.

24 Q. Let's talk a bit about graduate education  
25 in the Department of Mathematics.

1                   What types of graduate degrees are  
2 offered in your department?

3           A.       We offer a PhD degree, Bachelor degree  
4 and Master degrees. Two types of Master's degrees.  
5 Master's of Arts and Master's of Science.

6           Q.       Approximately how many PhD students do  
7 you have in the department?

8           A.       Last year we had 79 graduate students.

9           Q.       What is the purpose of having a PhD  
10 program in math?

11          A.       The purpose of a PhD degree is for the  
12 student to be - to develop into an expert in the  
13 field. So the requirements are effectively that the  
14 student is able to - has a deep knowledge of a  
15 particular field.

16                   In mathematics, that he is able to  
17 identify and research questions, open questions, at  
18 the cutting edge of the field. That he is able to  
19 address those questions in the research.

20                   And that the student is able to present  
21 those answers and solutions to a wide audience,  
22 through written and oral presentations.

23          Q.       When students enter the PhD program, do  
24 they have some of the skills and knowledge that you  
25 just described to be an independent researcher?

1           A.       They may have some of the skills in some  
2 capacity, but they're not sufficient for them to do  
3 independent research. I mean, they generally  
4 mathematically lack the background in the area.

5                    They don't have sufficient communications  
6 skills. And also they rarely have any written  
7 records of papers and publications of some sort.

8           Q.       Do students - PhD students in the  
9 department receive funding?

10          A.       Yes.

11                    I mean, all our PhD students get  
12 guaranteed funding for five years in the program, as  
13 long as they stay on track. We call it satisfactory  
14 progress in getting their degree.

15          Q.       Can students have different types of  
16 appointments over the course of their graduate  
17 studies?

18          A.       They can and they generally do.

19          Q.       And can that appointment change from year  
20 to year?

21          A.       Yes.

22          Q.       At a high level, what are the general  
23 core components of a PhD curriculum in math?

24          A.       The core components, in terms of - of  
25 course they have to perform and they have to learn.

1           And then there's research they have to  
2 do. Complete their dissertation. And then there's  
3 a teaching requirement that we have. You know, for  
4 them to learn how to communicate with students and  
5 also with FTAs.

6           Q.     Let's talk a little bit about research.

7                     So you mentioned that one of the  
8 components is research. Is a student able to earn a  
9 PhD without conducting research?

10          A.     No, that's impossible.

11          Q.     Okay.

12                     Is the research sometimes performed on an  
13 externally-funded grant?

14          A.     Yes, yes.

15                     Our type of PA grants coming from various  
16 external sources, NSF, NIH, DOD, various funding  
17 agencies. And through those grants they support  
18 students.

19          Q.     Do students - can students perform  
20 research while on a fellowship as well?

21          A.     Yes, yes. There is a fellowship that  
22 they can receive that's awarded by the - by the  
23 school.

24          Q.     Do students earn academic credit for  
25 performing research regardless of the funding

1 source?

2 A. Yes.

3 I mean, when they - when they pass the  
4 comprehensive exam, they can enroll in what's called  
5 a thesis PhD credit course. And then they  
6 accumulate credits towards that - that degree, for  
7 research.

8 Q. And are those research credits needed to  
9 graduates?

10 A. Yes.

11 They need 72 credits total -.

12 HEARING EXAMINER: Do you know what  
13 course number that is?

14 THE WITNESS: I don't know. I think  
15 it's -.

16 ATTORNEY DANTE: 3000.

17 THE WITNESS: 3000?

18 BY ATTORNEY DANTE:

19 Q. Does that sound right?

20 A. Yes.

21 Q. For a thesis PhD?

22 HEARING EXAMINER: We'll see - we'll  
23 figure it out. Go ahead.

24 BY ATTORNEY DANTE:

25 Q. How - how do students go about conducting



1 the research for their degree?

2 A. Well, generally they start by choosing a  
3 research advisor. Then they discuss with the  
4 advisor the area that they are invested in.

5 They would pick the advisor based on the  
6 area they are invested in, which they usually get  
7 from their coursework. And then upon discussing  
8 with the advisor, they would take an area of more -  
9 more focused area.

10 They then - the advisor usually helps  
11 them to formulate a research question. And then  
12 they would advance that research.

13 You know, the advisor would point them  
14 towards particular papers or books they would need  
15 to read. And perhaps sometimes even opinions on how  
16 or suggestions on how the problem could be solved.

17 In mathematics it's usually an unanswered  
18 question they have to solve or a problem they have  
19 to find the solution to.

20 Q. Do - do mentors and advisors provide  
21 other kinds of opportunities for their students?

22 A. Well, besides guiding them in research,  
23 they help them with the networking. They introduce  
24 them to other faculty from other departments and  
25 other researchers in the field.

1           They also guide them in their  
2 presentation skills. They can help them, for  
3 example, rehearse their presentation. They can help  
4 them edit or look over their papers the students are  
5 writing and - and those sort of things.

6           Q.     Why are those opportunities important for  
7 students?

8           A.     Because, as I said in the beginning, the  
9 students are not ready to - or they cannot - they  
10 are not experts in the field when they enter the  
11 studies. So the faculty and then the whole program  
12 is designed to give them all the necessary skills.

13          Q.     Have you been an advisor to PhD students?

14          A.     Yeah.

15                 I've advised, I believe, eight students.

16          Q.     Can you describe a little bit what that  
17 relationship is like?

18          A.     Well, it depends, you know. Each student  
19 - the relationship with each student is individual.  
20 So they - they can come to me in the beginning of  
21 their studies.

22                 For example, during the second year it's  
23 common. Or some students approach me during their  
24 third year.

25                 Some of the students have a better idea

1 about what they want to do in their research. Other  
2 students need more guidance.

3           And then they - and then I try to help  
4 them with formulating their - you know, showing them  
5 what the questions are.

6           You know, I usually go over the different  
7 areas of my research. I work in about four  
8 different distinct fields of mathematics that I show  
9 them through my presentations of what's interesting  
10 and what's out there. And then they pick from  
11 there. And then I help them - help them get  
12 started.

13           Some of them - depending on what the  
14 student lacks. Some of them are strong in  
15 mathematical but lack computational skills. Other  
16 students may have the opposite situation.

17           So - so I guide them through whatever  
18 they need. And then the - I help them to go through  
19 the program. They have to pass the preliminary exam  
20 and comprehensive exams.

21           And then I try keep them on track. I  
22 mean, there are nonexpert things that as an advisor  
23 you have to keep track. For example, you know, for  
24 the student being on time with their - with their  
25 assignments.

1           So I mean, we try to have them finished  
2 by the - by their fifth year in the program. So in  
3 order for them to do that, they have to progress  
4 through their milestones in a particular timing to  
5 be maintained.

6           Q.     Are students encouraged to publish their  
7 research?

8           A.     Yes.

9           I mean, it's more or less understood that  
10 the students are aware that if they want to find  
11 jobs, you know, their résumé won't look good unless  
12 they publish research based on - unless they publish  
13 papers based on their research.

14           Now, how many publications they have by  
15 the end of their graduation depends on the field.

16           So in some fields like Applied  
17 Mathematics or Mathematical Biology, they publish  
18 more papers, sometimes three or four.

19           In other fields, like Algebra, the  
20 background is difficult to acquire and the research  
21 is complex. So sometimes they publish after their  
22 degree, based on whatever the topics of their  
23 research is.

24           But we - we try -. It's not a stated  
25 appointment in their - in the - we have spelled out

1 appointments on our page as to what they need for a  
2 degree. The publications are not one of them. But  
3 it's understood in the field that for their future  
4 careers, it's best if they publish.

5 Q. Why is that?

6 A. Well, because that's what a fact of -  
7 that's what the hiring committees are looking at  
8 when they're hiring people for jobs, you know?

9 It's an evidence - it's evidence that  
10 they are able to present results of their work in a  
11 clear and succinct manner that's acceptable to peer  
12 reviews.

13 Q. Can the publications that students  
14 publish during the course of their program end up in  
15 their dissertation?

16 A. Yeah.

17 I mean, that's normally the case.

18 ---

19 (Whereupon, Respondent's Exhibit 96, Publication,  
20 was marked for identification.)

21 (Whereupon, Respondent's Exhibit 97, Thesis, was  
22 marked for identification.)

23 ---

24 BY ATTORNEY DANTE:

25 Q. Dr. Swigon, I'm going to show you what

1 I've marked as R-96 and R-97.

2 A. Okay.

3 Q. If you'd take a look at R-96.

4 Do you recognize that document?

5 A. Yes, yes. This is a paper published by  
6 one of our former graduate students. It's  
7 coauthored - it's coauthored with his research  
8 advisor.

9 Q. And how long, generally speaking, does  
10 the research take to - to formulate a publication  
11 like this?

12 A. Well, it generally takes several years.  
13 Usually two - two to three years. And then multiple  
14 projects, the students work on the same things.

15 Q. Does the student stop or start research  
16 based on what their funding source is?

17 A. No, no.

18 I mean, the students are expected to  
19 start research in their second year. And I mean  
20 regardless of their support.

21 This particular student was funded by a  
22 teaching assistant during his first year and then  
23 reassigned in the second and third year.

24 And then he went back to teaching -  
25 teaching fellowship in his fourth year and fifth

1 year.

2 Q. And throughout that time, was the student  
3 conducting research -?

4 A. He was conducting research on this  
5 project.

6 Q. And if we take a look at R-97, do you  
7 recognize that document?

8 A. Yes.

9 That's a thesis - Doctoral thesis of the  
10 student.

11 Q. And did R-96 make it in as a chapter to  
12 the student's dissertation in R-97?

13 A. Yes.

14 In fact, the first chapter of this  
15 dissertation.

16 Q. And is this comment, what you just  
17 described, where students performed research on  
18 appointments, and that leads to publications that  
19 are ultimately incorporated into a dissertation?

20 A. It's - it's very common.

21 I mean, the only exception would be when  
22 a student doesn't research in their first or second  
23 year and maybe they decide to switch directions.  
24 They find new advisors.

25 And in that case with the new advisor,

1 there'd be new direction to that PhD. But I mean  
2 the paper still is valuable, in looking through this  
3 case and their publication record.

4 Q. Is the research performed by a student on  
5 a GSR separate from that performed by a students  
6 towards his or her dissertation or degree?

7 A. No.

8 I mean, that would be very unlikely in  
9 our department. The students keep their research  
10 advisors based on the area they're interested in.

11 And the advisors are under those areas.  
12 So it's natural that the project they'd be working  
13 on would be in the same direction.

14 Q. And students are conducting research  
15 regardless of their funding source?

16 A. Yes.

17 I mean, the funding source is a means of  
18 providing the students with ways to support  
19 themselves, so they don't have to find any outside  
20 jobs outside of the University.

21 Q. Okay.

22 A. I mean, we don't want them to have any -  
23 have any financial problems while they're working on  
24 their PhD.

25 It's a common practice in all the



1 universities nowadays to provide guaranteed funding  
2 to all the students - all the PhD students.

3 Q. If I were to come into your office and  
4 observe you and a student conducting research, would  
5 I be able to tell how that student was funded?

6 A. Not during our research.

7 Q. That student could be funded on the  
8 fellowship?

9 A. Yes.

10 Q. Funded on a grant?

11 A. On a teaching assistant's employer grant.  
12 I mean, that's - it doesn't come up during the  
13 research.

14 Q. Let's talk a little bit about teaching I  
15 think you mentioned at the beginning. Does the - do  
16 PhD students in the Department of Mathematics have  
17 an academic teaching requirement?

18 A. Yes.

19 They're required to teach I think two  
20 semesters.

21 Q. And do your students satisfy the academic  
22 teaching requirement by being on a TA appointment?

23 A. Of course.

24 Q. What is the purpose of having graduate  
25 students teach?

1           A.       Well, more than half of our graduate  
2 students will eventually find jobs in academia, the  
3 research-type universities or colleges, four-year  
4 colleges, some of them even high schools. So I mean  
5 teaching is a natural component of their job, future  
6 jobs.

7                       So we want to provide them training. But  
8 besides that, even for people who do not end up in  
9 academia, they need the communication skills. They  
10 need to be able to address audiences of people.  
11 They need to be able to speak to experts in the  
12 field.

13                      There is also another issue. Many of our  
14 students are international students. And they don't  
15 have the necessary language skills that we would  
16 like them to have when they enter a workforce.

17                      So teaching - teaching is a good  
18 opportunity for them to practice those language  
19 skills. They listen to students asking questions  
20 and responding to them appropriately.

21           Q.       Before students enter the classroom, does  
22 the department do anything to help prepare them?

23           A.       Yes. We have introductory teaching  
24 orientation, where the students are familiarized  
25 with our system and with our coursework. And that's

1 during - before the first semester in the program.

2           And then we have a teaching orientation  
3 course, Math 2020. No. It was a different number.  
4 It's called teaching and orientation. It's one  
5 course they're required to take during their first  
6 year they are teaching.

7           So they're on a fellowship course that  
8 first year they would take when they start teaching.  
9 And they are doing their orientation course. They  
10 basically practice various components of teaching.

11           And they talk about responsible behavior  
12 in the classroom and how to handle students,  
13 questions and various other things and effective  
14 teaching methods, pretty much.

15           Q.     But while the students are teaching, do  
16 they receive any mentoring?

17           A.     They receive mentoring based on - for  
18 example, if they do recitations or grading they're  
19 always assigned to work with a faculty lecturer. So  
20 they're being trained by the faculty lecturer.

21           It's a common practice that the lecturer  
22 visits the teaching recitation, for example, of a  
23 student and provide them with feedback.

24           And also have a TA mentor. That's a  
25 senior graduate student who goes to - who attends

1 the recitations of our beginning TAs and he gives  
2 them - and they give them hints and guidance as to,  
3 you know, how to do - how to teach effectively.

4 Q. As the Director of Graduate Studies, do  
5 you ask students for their preferences when it comes  
6 to teaching assignments?

7 A. Yes, yes, of course.

8 Each student we ask them for their  
9 schedule, because we don't want there to be any  
10 conflict between the teaching assignments and what  
11 courses they have to take.

12 And they can also notify us about any  
13 conflicts with their like research advisors'  
14 meetings or if they want to study or they prefer the  
15 mornings to evenings, you know, those kind of  
16 preferences.

17 And also what type of teaching assignment  
18 they want to have. We have different assignments,  
19 starting from recitations of lower-level classes and  
20 recitations and upper-level classes and grading. So  
21 they can choose among those assignments.

22 And then after the assignments are done,  
23 they can - they can exchange with each other those  
24 assignments and they can trade those assignments.

25 Q. If they want?

1           A.       If they want.

2           Q.       Are there also some undergraduate TAs?

3           A.       Yes.

4                    Some of our courses, the low-level  
5 introductory Algebra, for example, there, we utilize  
6 undergraduate teaching assistants. You know, those  
7 are undergraduate students who want to practice  
8 their teaching skills.

9                    I'm not responsible for those  
10 appointments.

11          Q.       We talked about research and teaching.

12                    Does the program track the hours that  
13 student spend conducting research?

14          A.       No.

15                    I mean, it's up to the individual student  
16 to put in whatever work is necessary to make  
17 sufficient progress in the research.

18          Q.       And what about for teaching?

19          A.       The same thing.

20                    We tried the maximum. We don't want the  
21 student to be burdened with too much teaching. So  
22 we require that they teach no more than 20 hours a  
23 week.

24                    And so if any student has a - has a  
25 problem, they have too difficult of a teaching

1 appointment, we try to work it out, you know, spread  
2 it around. So they can come to me or the Chair and  
3 we'll try to address that issue.

4 Q. What's the purpose of that 20-hour  
5 component for that - for the teaching?

6 A. Well, there's a certain amount - I mean,  
7 when you're training and trained in a particular  
8 area of research or teaching, there is a certain  
9 amount of hours you need to put in per week to  
10 become proficient in that particular skill.

11 So we believe that a certain amount of  
12 teaching is necessary at any - you know, during the  
13 week, to become - to come to that proficiency.

14 And the same with research. But we don't  
15 put any lower limit on - on research.

16 Q. Okay.

17 Are students evaluated regarding their  
18 academic -?

19 HEARING EXAMINER: Can I interrupt for  
20 a moment?

21 ATTORNEY DANTE: Sure.

22 HEARING EXAMINER: You said there's no  
23 lower limit.

24 So you could have someone satisfy the  
25 teaching requirement by teaching zero hours?

1                   THE WITNESS: Well, no.

2                   HEARING EXAMINER: Well, so there is -  
3 there is a lower limit?

4                   THE WITNESS: Well, there is a  
5 teaching assignment, standard teaching assignments  
6 that we give to the students. And there has never  
7 been a situation where the students would refuse to  
8 participate in those assignments or not come to  
9 class.

10                  HEARING EXAMINER: What would happen  
11 if they did?

12                  THE WITNESS: I would - we would have  
13 to resolve that. We don't have a mechanism.

14                  HEARING EXAMINER: Go ahead, Miss -.

15                  ATTORNEY DANTE: Sure.

16 BY ATTORNEY DANTE:

17                  Q. Are students evaluated regarding their  
18 academic progress toward a degree?

19                  A. Yes, yes.

20                         There are milestones that they have to  
21 satisfy. There is a preliminary exam that they have  
22 to pass, which is based on introductory courses.

23                         There is a comprehensive exam, which is  
24 based on more advanced courses, that judges whether  
25 they - whether they're prepared to do independent

1 research.

2           And then there's an overview, which  
3 spells out whether the area they chose for research  
4 is adequate, and whether the research projects  
5 they're planning to make would satisfy the thesis -  
6 the defense requirements.

7           And then there is the thesis defense,  
8 where they present the results.

9           Q.     Do -?

10          A.     And then in addition to that, there is a  
11 certain number of courses. They have to take ten  
12 courses of a certain level with - with satisfactory  
13 grades.

14          They have to satisfy what you call a  
15 sequence requirement, which combines certain courses  
16 to provide a complete background in a particular  
17 area. And then - then there is a credit  
18 requirement.

19          Q.     Do your students receive any sort of  
20 letter that documents their progress?

21          A.     Yes.

22          We give every student every year a  
23 progress letter that spells out how they're  
24 proceeding.

25          Q.     I'll show you what I marked as R-98.



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(Whereupon, Respondent's Exhibit 98, Progress Letter, was marked for identification.)

---

BY ATTORNEY DANTE:

Q. Do you recognize that document?

A. Yes.

This is an example of our progress letter.

Q. Can you explain what's going on in this one?

A. This was a student who didn't pass the comprehensive exam on time, which would be by the end of their second year. So as a rule we need to spell out the possible consequences of their not -. The student was not on a satisfactory progress in their - in their studies.

And therefore, since support is guaranteed based on satisfactory progress, we need to notify the student that they're behind, and that they need to complete their milestones to get back on satisfactory progress.

Q. And if they don't, what - what could happen?

A. Well, the only real situation where they

1 - the students have lost support in the past were  
2 the preliminary exams. So if the student doesn't  
3 pass preliminary exams by the end - by the end of  
4 their second year in the program, we don't guarantee  
5 support for their third year.

6 Now, depending on whether there is enough  
7 support available, we might. And we have been  
8 funding those students.

9 But it's not - as I said it's not  
10 guaranteed. It's based on availability.

11 Now, if they don't pass, then it's  
12 awarded on a - on a - support is awarded on a  
13 semester-to-semester basis. Because we have two  
14 opportunities to take the preliminary exam.

15 And then if they don't pass by the end of  
16 their third year in the program, then they cannot  
17 continue in the PhD Program. And they can transfer  
18 to the Master program, which does not provide  
19 support.

20 Q. Okay.

21 Have there ever been any instances of a  
22 student's academic appointment being terminated  
23 early or not renewed because they did not meet the  
24 expectations of the appointment?

25 A. Of the teaching appointment or research?

1 No.

2 HEARING EXAMINER: What did you say?

3 THE WITNESS: We have never terminated  
4 students' support because they didn't meet  
5 expectations of the teaching assignment or the  
6 research assignment.

7 That means they would not perform  
8 their duties properly. I guess that was the  
9 question?

10 ATTORNEY DANTE: Uh-huh (yes). Yeah.

11 HEARING EXAMINER: Didn't you say  
12 essentially now, though?

13 ATTORNEY DANTE: No.

14 HEARING EXAMINER: You didn't?

15 ATTORNEY DANTE: No qualifications.

16 HEARING EXAMINER: Thank you. Go  
17 ahead.

18 ATTORNEY DANTE: Okay. Thank you.

19 BY ATTORNEY DANTE:

20 Q. And - okay. So when you started - when  
21 you started testifying, you stated that the purpose  
22 of graduate education for PhD students was to have  
23 students become experts in the field, be able to  
24 identify and address questions, research those  
25 questions independently and then present their

1 findings to a wider audience.

2 Do you recall, generally, that  
3 testimony -

4 A. Can you restate the question?

5 Q. - earlier today?

6 When you started, you stated that -

7 A. Yes.

8 Q. - the purpose of graduate education for  
9 PhD students in your department was for students to  
10 become experts in their field and be able to  
11 identify problems, answer those problems through  
12 conducting independent research and then present  
13 those findings to a wider audience?

14 A. That's right.

15 Q. Are the requirements and the training  
16 opportunities that we discussed today designed to  
17 achieve that purpose?

18 A. Yes.

19 ATTORNEY DANTE: I don't have anything  
20 further from this witness.

21 HEARING EXAMINER: All right.

22 How much time would you like to  
23 prepare?

24 ATTORNEY KILBERT: Five to ten.

25 HEARING EXAMINER: All right. Why

1 don't we do 15? We'll just come back at 10:00.

2 All right. Come back at 10:00.

3 Please don't talk to anyone about your testimony.

4 ---

5 (WHEREUPON, A SHORT BREAK WAS TAKEN.)

6 ---

7 HEARING EXAMINER: Back on the record.

8 Cross Examination.

9 ---

10 CROSS EXAMINATION

11 ---

12 BY ATTORNEY KILBERT:

13 Q. Good morning, Professor. My name is  
14 Nathan Kilbert. I am an attorney for the Union. I  
15 just have a few questions for you.

16 We heard from Professor Federspiel in  
17 early October, who indicated he was affiliated with  
18 the McGowan Institute for Regenerative Medicine.

19 You're also affiliated with that McGowan  
20 Institute for Regenerative Medicine?

21 Correct?

22 A. Yes. Yes, that's correct.

23 Q. And what is that affiliation?

24 A. I'm formally part of the - part of the -  
25 the group of researchers. They maintain contact

1 with us through my collaboration with Dr. Joe  
2 Klinmon when we worked on the research and tissue  
3 cell migration and influence -.

4 Q. Some people who are -.

5 HEARING EXAMINER: Wait. Aren't you  
6 mathematics?

7 THE WITNESS: Yes.

8 This was mathematic modeling.

9 HEARING EXAMINER: Oh, okay.

10 Go ahead.

11 BY ATTORNEY KILBERT:

12 Q. Some people who are PhD students in the  
13 Mathematics Department work as teaching assistants  
14 or teaching fellows for more than just two  
15 semesters.

16 Isn't that correct?

17 A. That's correct.

18 Q. And in fact, Mr. Young did so himself.

19 Isn't that correct?

20 A. Yes.

21 Q. Do all students finish their PhD in the  
22 five years when funding is guaranteed?

23 A. Generally, no. About half of them need  
24 the sixth year to finish.

25 Q. All right.

1 I am going to hand you a document that  
2 has been marked as Union 242.

3 ---

4 (Whereupon, Petitioner's Exhibit 242, Webpage  
5 Printout, was marked for identification.)

6 ---

7 BY ATTORNEY KILBERT:

8 Q. Take a look at this and let me know when  
9 you're ready.

10 A. Okay.

11 ---

12 (WHEREUPON, WITNESS COMPLIES.)

13 ---

14 THE WITNESS: Yes.

15 BY ATTORNEY KILBERT:

16 Q. What is this document?

17 A. It appears to be a printout of our  
18 webpage. The graduate handbook that's listed on our  
19 webpage.

20 Q. This is the handbook that is -?

21 A. The Department of Mathematics.

22 Q. So this is the handbook that your PhD  
23 students in the Department of Mathematics are  
24 governed by?

25 A. Yes.

1                    ATTORNEY KILBERT:    Union moves 242.

2                    ATTORNEY DANTE:    No objection.

3                    HEARING EXAMINER:    Admitted.

4                    ---

5                    (Whereupon, Petitioner's Exhibit 242, Webpage  
6                    Printout, was admitted.)

7                    ---

8                    BY ATTORNEY KILBERT:

9                    Q.        I wonder if you could turn to the first  
10                    page?

11                    A.        Uh-huh (yes).

12                    Q.        And if you could just read the final  
13                    sentence on that first page?

14                    A.        You mean the starting - teaching  
15                    assistants and fellows are expected to work 20 hours  
16                    a week per week in addition to the time required for  
17                    coursework and study.

18                    Q.        Thank you.

19                                    And can I please ask you to turn to page  
20                    eight?

21                    A.        Uh-huh (yes).

22                    Q.        There's a list of nine things toward the  
23                    bottom of that page.

24                    A.        Yes.

25                    Q.        Could you please read item nine?



1           A.       Participate in a teaching assignment of  
2 at least one lecturer or recitation section per term  
3 for a minimum of two terms.

4           Q.       And -.

5           A.       This requirement can be waived by the  
6 Graduate Committee.

7           Q.       So you testified on Direct somewhat about  
8 a one credit teaching course?

9           A.       That's right.

10          Q.       That has a component that's separate from  
11 the teaching assistant's duties, in terms of  
12 teaching. It has a classroom component.

13                    Is that right?

14          A.       It's a classroom component, yes.

15          Q.       Does this handbook indicate that that  
16 teaching course is required of PhD students?

17          A.       I'm not sure whether it does. It should,  
18 but it's possible that we haven't included it yet.

19          Q.       Okay.

20                    Could you put that aside for a moment -

21          A.       Yes.

22          Q.       - and turn to Respondent's Exhibit 98,  
23 which is the review letter?

24          A.       Yes.

25          Q.       Does this review letter mention anything

1 about satisfaction of teaching requirements?

2 A. No.

3 Q. You testified on Direct somewhat about  
4 undergraduate and teaching assistants?

5 A. Yes.

6 Q. Are those individuals paid?

7 A. I'm not sure what the method is. I know  
8 in the University some undergraduate TAs get  
9 coursework credit, some get paid.

10 Q. And you're not sure what the case is for  
11 these?

12 A. No, I'm not responsible for this.

13 ATTORNEY KILBERT: Nothing further.

14 HEARING EXAMINER: Redirect?

15 ATTORNEY DANTE: One minute.

16 HEARING EXAMINER: Thank you.

17 ATTORNEY DANTE: I don't have any  
18 further questions.

19 HEARING EXAMINER: You may step down,  
20 sir. Thank you very much for your testimony.

21 Do you need a break to get your next  
22 witness?

23 ATTORNEY FARMER: Yes.

24 HEARING EXAMINER: All right.

25 What time do you need?

1                    ATTORNEY FARMER: I'm going to see if  
2 we - the witness was supposed to be here at 11:00.  
3 I'm checking right now to see if we can get her  
4 quicker.

5                    HEARING EXAMINER: Off the record.

6                    ---

7                    (WHEREUPON, A SHORT BREAK WAS TAKEN.)

8                    ---

9                    MARIA MORI BROOKS, PH.D.,  
10 CALLED AS A WITNESS IN THE FOLLOWING PROCEEDING, AND  
11 HAVING FIRST BEEN DULY SWORN, TESTIFIED AND SAID AS  
12 FOLLOWS:

13                    ---

14                    HEARING EXAMINER: What's your name?

15                    THE WITNESS: My name is Maria Mori  
16 Brooks.

17                    HEARING EXAMINER: M-O-R -?

18                    ATTORNEY FARMER: Can you spell that  
19 for the court reporter?

20                    HEARING EXAMINER: Yeah.

21                    THE WITNESS: Sure.

22                    M-A-R-I-A, M-O-R-I-, B-R-O-O-K-S.

23                    HEARING EXAMINER: Thank you, miss.

24 Go ahead.

25                    ---

## 1 DIRECT EXAMINATION

2 ---

3 BY ATTORNEY FARMER:

4 Q. And Dr. Brooks, where do you work?

5 A. I work at the University of Pittsburgh in  
6 the Graduate School of Public Health.7 Q. And what specifically within the Graduate  
8 School of Public Health? Are you in a specific  
9 department?

10 A. Sure.

11 I have a primary appointment in the  
12 Department of Epidemiology, that is my home. And  
13 then I have a secondary appointment in the  
14 Department of Biostatistics.15 Q. Do you also have any administrative  
16 appointments?17 A. I do. I serve as what's called the Vice  
18 Chair for Education within our department. And then  
19 in our department we have two vice chairs, one for  
20 research and one for education. And I am the Vice  
21 Chair for Education.22 I also am the co-director for the  
23 Epidemiology Data Center, which is one of the - I  
24 think it's considered a center within the  
25 department. And it's a large research group, where

1 we coordinate multicenter clinical studies.

2 Q. How long have you worked at Pitt?

3 A. I've been at Pitt since 1995. I started  
4 as a staff person and as a statistician. And I've  
5 been faculty since 2001.

6 Q. And how long have you held the role as  
7 the Vice Chair for Education?

8 A. I began that role in January of 2013.

9 Q. Can you tell us about your educational  
10 background?

11 A. Sure.

12 I was an undergraduate mathematics major  
13 at Williams College. I then got a Master's degree  
14 in statistics from Harvard University. And then a  
15 PhD, also in statistics, from the University of  
16 North Carolina, Chapel Hill.

17 Q. And when you were at Pitt as a staff  
18 person, what were you doing?

19 A. I was working as a statistician on the  
20 bypass angioplasty revascularization investigation.  
21 So basically the same sort of thing, but in a  
22 staff-type role working in a multicenter clinical  
23 study.

24 Q. And let's just now talk about graduate  
25 education in the School of Public Health.

1                   Can you give us an overview of the  
2 structure of the school?

3           A.       Sure.

4                   So the School of Public Health is  
5 obviously one of the schools within the University.  
6 Within the school there are seven departments.  
7 Epidemiology is one of those departments, as is  
8 Biostatistics.

9           Q.       Is Epidemiology the largest department?

10          A.       I believe it is. I think both in terms  
11 of research dollars, faculty and I think graduate  
12 students as well.

13          Q.       What type of graduate degrees does the  
14 school offer?

15          A.       Our department offers four. I think some  
16 other departments may offer another one. There's  
17 the MPH, which is the Master's of Public Health,  
18 there is an MS, which is the Master's of Science.  
19 There is a PhD, which is a Doctor of Philosophy.  
20 And there's a DRPH, which is a Doctor of Public  
21 Health.

22                   I do think health administration, for  
23 example, has a Master's of Health Administration.  
24 But we offer those. The Department of Epidemiology  
25 offers the four degrees I mentioned.

1 Q. Within this School of Public Health, are  
2 there also undergraduates?

3 A. There are no undergraduates that are  
4 enrolled in the school.

5 Q. So it's graduate only?

6 A. Yes.

7 In fact, it's called the Graduate School  
8 of Health.

9 Q. Okay.

10 When students are seeking admission, what  
11 are - what is that admission based on?

12 A. We look for students who are very  
13 capable. And I think those are - that's generally  
14 exemplified through their grade point average, as  
15 well as their GRE scores. As well as we really do  
16 want them to have a passion for public health.

17 And so we do want to see some commitment  
18 toward - ideally toward research to a certain  
19 extent, but certainly toward public health. The  
20 understanding of prevalence of disease, spread of  
21 disease, treatment of disease, that sort of thing.

22 Q. What's the difference between a DRPH and  
23 the PhD?

24 A. Sure.

25 The PhD is intended to be a research

1 degree. It is intended for the students, I think,  
2 to pursue academics afterwards. I think academics  
3 can be very broad.

4 The DRPH has a strong emphasis towards  
5 leadership and management. And so both in terms of  
6 the course requirements as well as dissertation  
7 focus.

8 We do expect more of a management-type  
9 focus, evaluation of programs, implementation of  
10 programs. And I think the concept is that they are  
11 more likely to go into government type or like the  
12 State Health Department, that type of a position.

13 It's not always as clean-cut as all of  
14 that, but that's the distinction of the two  
15 programs.

16 Q. Okay.

17 What types of funding do graduate  
18 students in the program receive?

19 A. Well, they're Doctoral students.

20 Q. Okay.

21 A. Our Master students occasionally have a  
22 scholarship of sorts. But I think that's largely  
23 it.

24 Q. Okay.

25 A. Our Doctoral students, there really are



1 three major types of funding. The most common one  
2 is the graduate student researcher position.

3 Do you just want me to name them or do  
4 you want me to describe them?

5 Q. Yeah. Go ahead.

6 A. So the graduate student researcher  
7 position.

8 And then we have - currently we have a  
9 couple of active T-32 training grants for both  
10 actually pre-Doctoral and post-Doctoral students.  
11 But we fund several Doctoral students on that.

12 And we just had a couple more funded. So  
13 we're very pleased that we should be expanding that  
14 element. And then we do have a couple of - and  
15 literally when I say a couple I mean two - TA  
16 positions in our department as well.

17 Q. Okay.

18 Why are graduate students and Doctoral  
19 students specifically provided funding?

20 A. I think it's two things. One is it is to  
21 help them with the financial burden of graduate  
22 education. But I think much more importantly it  
23 does provide experiential learning. And it allows  
24 them to be part of the research projects or part of  
25 the academic mission of the department.

1 Q. And this may seem like a silly question,  
2 but why have PhD programs or Doctoral programs?

3 A. I'm sorry. Say that again? Why have  
4 them?

5 Q. Yeah.

6 A. That's a good question. Right?

7 So I think that we have them -. You  
8 know, I want to be idealistic. I work in the School  
9 of Public Health. I was originally trained as a  
10 statistician. Right?

11 And we go to find an area that appeals to  
12 us. And I think it's not an accident mine was  
13 School of Public Health.

14 I do believe we have a very important  
15 mission of improving the health in this country and  
16 actually across around the world. I tend to do more  
17 focused in this country.

18 I do believe that the Doctoral students  
19 and those who ultimately have a Doctorate have the  
20 correct skills and the rigorous methodological  
21 approaches to best be able to produce research that  
22 reflects the scientific principles. And then,  
23 therefore, apply them to help people appropriately  
24 throughout our country.

25 Q. Do you have international students with

1 public health who are funded, for example, by their  
2 own countries?

3 A. Absolutely.

4 We always have a couple who come in,  
5 often physicians. And then they come in and get a  
6 Doctorate in Epidemiology. Sometimes a Master's,  
7 but most often a Doctorate. And then they go to  
8 Kazakhstan, Saudi Arabia. Those are some of the  
9 countries I can certainly think of.

10 And they're - Chile. They may work  
11 within the Department of Health for their country.  
12 That's most common. That's often who sends them.  
13 Or they may work in other kind of public health  
14 positions.

15 Q. We heard the terms faculty advisor,  
16 academic advisor, faculty mentor, sometimes used  
17 interchangeably. So I may call them mentors. I  
18 know people talk about them as advisors.

19 But how are they assigned to students  
20 within public health?

21 A. Sure.

22 And I do think they are very overlapping  
23 but somewhat distinct at times as well. We have one  
24 advisor. And so your advisor is assigned largely  
25 due to an overlap of interest of what the student is

1 expressing that they want to do. They sometimes  
2 change their mind. They sometimes change advisors.

3 But the whole purpose of matching the  
4 advisor with a student is to take advantage of  
5 common interests.

6 Q. And does that happen during the admission  
7 process or when students get on campus or both?

8 A. It's probably somewhere in between. We -  
9 they might express their interest of who they want  
10 their advisor to be. We typically don't assign them  
11 until they say they're coming. Because like every  
12 institution, not everybody comes who's accepted.

13 Q. And do you personally advise students,  
14 graduate students, PhD students?

15 A. I certainly do.

16 Q. Can you talk about what is involved in  
17 being the advisor for a PhD student?

18 A. Sure.

19 So at the beginning in a Doctoral program  
20 the way it typically works the first two years  
21 they're mostly taking courses. And so - and then  
22 the next couple years they're mostly doing research.  
23 So it sort of - there definitely is a shift there.

24 And so at the beginning you're trying to  
25 evaluate what their long-term goals are. And then

1 trying to help them put together a curriculum.

2 There's a lot of requirements.

3 But in addition trying to meet the needs  
4 of where they are heading with their - with their  
5 research degree. I literally had an appointment  
6 today with one of my Doctoral advisees, who is in  
7 her second year. And I am trying to advise her  
8 which electives would be best suited for her, for  
9 her path.

10 Q. Can you talk - just give us an overview  
11 of what a typical student's first year in the  
12 program looks like, how they're spending their time,  
13 what they're doing?

14 A. Sure.

15 They're largely - they have - I think a  
16 full-time student has to be taking nine credits.  
17 And many of them are taking at least 12. And so  
18 they're taking courses on biostatistics, they're  
19 taking courses on epidemiology. They may be taking  
20 courses on other things like health policy and  
21 environmental health.

22 They're learning basically I like to  
23 think the building blocks of what we need to do  
24 research and what we need to appropriately evaluate  
25 data and make decisions.

1 Q. When do they take their qualifying exam?

2 A. Typically after the second year.

3 Different students come in. Some of our students  
4 come in with an MPH from another program. Some come  
5 in with an MPH from our program.

6 They can take it after the first year.  
7 Nobody comes in and immediately takes it. Either  
8 the first or second year.

9 Q. And when do the students start doing  
10 research?

11 A. So they often start exploring and doing  
12 preliminary research from the beginning. I think  
13 part of our goal - University of Pittsburgh is a  
14 research institution. I think that goes without  
15 saying.

16 In many ways we also have an academic  
17 mission. But we - we are committed to, I think,  
18 doing high quality research.

19 And we have a lot of research programs  
20 available. And so I think at the beginning they're  
21 exploring different research projects, different  
22 research interests and then - but they're mostly  
23 taking classes.

24 And so by again the end - really the  
25 summer after their second year they should be

1 getting more involved in the research program.

2 Q. So you said that you have advisees.  
3 You've advised students and you obviously currently  
4 do.

5 Are those students typically supported on  
6 your grants?

7 A. Yes. Not all, but most of them are, yes.

8 Q. So if you're supporting a first-year  
9 student on one of your grants that are appointed on  
10 the GSR, what are they doing?

11 A. At the beginning, they are learning.  
12 They are - so I could describe for you one of the  
13 studies I work on.

14 Q. Uh-huh (yes).

15 A. I have two studies currently where I'm  
16 the PI of a major grant. And one of them is called  
17 the Study of Women's Health Across the Nation. It's  
18 a study of women as they transition through  
19 menopause and sort of describing that transition and  
20 the health repercussions that go along with that  
21 transition.

22 So we get everything from hormone levels  
23 from blood, over time studies going on for 20 years.  
24 Symptoms that women have. We get carotid scans of  
25 atherosclerosis, we get bone-density scans.

1           We get quality of life in many  
2 dimensions. We get physical function, physical  
3 activity, sleep. And so there is - these studies  
4 are very complicated, with a wide array of data.  
5 And I mean the fun part is that the data changes  
6 over time.

7           And as we see as women age, we see that  
8 bone density decline and the arthrosclerosis  
9 increases, et cetera. And so understanding how the  
10 database is created, how retention occurs within  
11 these studies.

12           We don't actually see any participants.  
13 We are a Data Center. So we have all the health  
14 data. So to understand what the variables are, how  
15 they're defined, how they've been coded, how they're  
16 associated with one another, how they change over  
17 time.

18           They start reading the literature in the  
19 area, so that they understand the basics of women's  
20 health and aging. And actually depending on what  
21 they're interested in, perhaps reproductive health  
22 or cardiovascular disease or bone health.

23           And so they're learning about the area,  
24 they're learning about the study in particular. And  
25 they're learning - and all of these are actively



1 funded.

2           So they're learning about how we conduct  
3 the study. And they take part in our staff  
4 meetings, our conference calls, et cetera.

5           Q.     And does their involvement in that  
6 research then change over time as they're  
7 progressing through that program?

8           A.     Absolutely. Absolutely.

9           I think I - all of us learn over time.  
10 That at the beginning the graduate students come in  
11 with usually a very strong knowledge base in one  
12 area. But their skillsets are usually quite limited  
13 at the beginning.

14           And that's part of what they're learning.  
15 And that's part of the whole program. Not just the  
16 research project, but also the classes.

17           Both of those combine together to help  
18 build those - those skillsets. I think as they do  
19 learn more about database management, as they do  
20 learn more about statistical methods and statistical  
21 programming, they're able to apply what they learned  
22 to the data that we have as part of our study. And  
23 then I mean the ultimate goal, besides their  
24 dissertations, that they work within the study to  
25 produce some meaningful research. Which might be a

1 presentation, it might be a publication. And they  
2 may be a part of a team that does that.

3 Q. So is working on funded research projects  
4 the way in which graduate students learn to conduct  
5 research?

6 A. I personally think that it is one of the  
7 important things that they learn how to conduct  
8 research. Because I think they learn the principles  
9 in class. There's no question.

10 We build out - we are very I like to  
11 think dedicated about building our curriculum to  
12 cover the competencies, so that they do learn the  
13 principles.

14 And we try to cover all of those  
15 principles. But I think seeing the complexities of  
16 - and most of what we do is human research. Right?

17 And so it is very complex. And how we  
18 conduct research, how we collect those data, how we  
19 analyze those data, how we interpret the results I  
20 think is part of what they gain from the process.

21 Q. How do students determine what area  
22 they're going to focus on for their dissertations?

23 A. Some students come in knowing what they  
24 want to do. And they - they do choose an area.

25 I think more commonly students know they

1 want to do public health. They might even have a  
2 leaning one way or the other. And if they're more  
3 interested in cancer research, they're more likely  
4 to have an advisor in the cancer research area.

5           And so I think they try to find a topic  
6 that excites them, but that is feasible. And so  
7 often these studies provide a feasible way for them  
8 to pursue a topic. Because there often are existing  
9 data. Or there often are existing infrastructure so  
10 that they can pursue a particular topic within that  
11 area.

12           Q.     Is it common for students who are doing  
13 funded research to incorporate that into their  
14 dissertation?

15           A.     Yes. I think that's very common.

16           Q.     Is that the goal?

17           A.     You know, I think it is. It is part of  
18 the goal. I don't think it has to be.

19                   And we've seen - we've seen many  
20 different combinations. But I think that that works  
21 very well. They learned that study very well. They  
22 understand how - I'd like to believe it fits into  
23 the larger field. And then they're able to use a  
24 part of that study to pursue their own research and  
25 then accomplish their goals.

1 Q. And that funded research that they're  
2 working on, could they be on a GSR while they're  
3 doing that?

4 A. Yes, yes.

5 Q. Could they also be on one of those  
6 trainings grants?

7 A. Absolutely. In fact, I've had two  
8 students who started as GSRs and went on to training  
9 grants. Because the training grants, I think they  
10 have the luxury of being a bit more selective and  
11 conservative.

12 And they almost never take first-year  
13 students. They always want students who have been  
14 there for a year and have proven their capabilities.

15 And so the training grants, if we have a  
16 GSR that is doing very well and that is interested  
17 in our current ones, our aging research and  
18 cardiovascular research, and they're interested in  
19 cardiovascular research, they're a nice fit for the  
20 training grant and then that complements their  
21 learning. They continue to work on a project when  
22 they go on the training grant.

23 They don't - they don't - it's not like  
24 we lose them. We actually - we keep working with  
25 them and they are partners in the research.

1 Q. Do students typically publish based on  
2 the research they're involved in?

3 A. They generally do. And I - so there is a  
4 distinction. The ones that they do for their  
5 dissertation, which may or may not be on the same  
6 project will typically be the first topic.

7 And then they - not uncommonly, in fact  
8 it's our goal is to have a few of these. They'll  
9 often have a couple other papers where they're not  
10 the first author, but they are the coauthor on a  
11 team from the project. And that's - that's actually  
12 a different kind of learning experience, which I  
13 could go into detail.

14 Q. Why is that a goal that they would have  
15 that mix?

16 A. So they have the role. Often being like  
17 the person who's analyzing the data and interpreting  
18 the data for our clinical colleagues. They  
19 collaborate with our clinical colleagues. They help  
20 write up the sections for - you know, with the team.

21 And I actually think - I think it's  
22 essential, actually, to learning some of those  
23 collaboration skills that are so important in  
24 research.

25 Q. Where the students are the first authors

1 of publications that you mentioned, does that  
2 generally then form the basis of their dissertation?

3 A. It does, yes.

4 In fact, our dissertation we have one  
5 format that is used the majority of the time. It  
6 doesn't have to be this. But it's - three  
7 publishable papers are the three primary chapters of  
8 your dissertation. The introduction on the field,  
9 the gaps in the field, et cetera.

10 You have a discussion that synthesizes  
11 the work from the three papers and emphasizes the  
12 public health importance and significance of that  
13 question.

14 But the three chapters that are the core  
15 content of the dissertation actually are supposed to  
16 be publishable papers. And that's eventually -  
17 that's a majority of our dissertations are like  
18 that.

19 Q. What does it mean to be a publishable  
20 paper?

21 A. We debate that and faculty does as well.  
22 A publishable paper - because obviously there's  
23 everything from The New England Journal to much  
24 smaller journals as well. But I think it's - it's  
25 work that's done in a rigorous way that there is

1 confidence in this scientific merit of what they do  
2 and the scientific merit of the conclusions that  
3 they draw from their research.

4           Such that it could be published in the  
5 journal. And I think the concept is, we don't want  
6 to hold them up. That it has to be published before  
7 they leave.

8           Like they could be doing the submission  
9 process. But that's often somewhat of a  
10 time-consuming process or while they're a graduate  
11 student or while they're a post-doc or some other  
12 point. But that we believe that the quality and the  
13 scientific rigor is appropriate for publication.

14           Q.     Do students leave with actual published  
15 papers and -?

16           A.     Generally they do. Generally, they - if  
17 they have three in their dissertation the very  
18 common thing will be one is already published. And  
19 the other two are probably not yet accepted, but are  
20 in that process.

21           And then they may have - generally again,  
22 in order to learn the field and in order to learn  
23 the research we're doing, we have them on  
24 collaborative teams. So they often are - I've had a  
25 couple of papers with a team where they're not the

1 first author. But that that's the same area.

2 ATTORNEY FARMER: Okay.

3 We're going to do 99, 100 and 101.

4 ---

5 (Whereupon, Respondent's Exhibit 99, Document,  
6 was marked for identification.)

7 (Whereupon, Respondent's Exhibit 100, Document,  
8 was marked for identification.)

9 (Whereupon, Respondent's Exhibit 101, Document,  
10 was marked for identification.)

11 ---

12 BY ATTORNEY FARMER:

13 Q. Dr. Brooks, I'm showing you what we're  
14 marking as Exhibits 99, 100 and 101. Can you -  
15 first let's with 99 and 100.

16 Can you explain what these are?

17 A. Yes.

18 So Andrew Althouse was my Doctoral  
19 student. He probably finished about four years ago.  
20 I could probably check. In 2013. Okay.

21 So five years ago he finished his  
22 dissertation. He worked on BARI 2D, which is a  
23 randomized clinical trial that looked at both  
24 different forms of treatment for patients who have  
25 both coronary artery disease and diabetes.



1           And in particular he was quite interested  
2 in the diabetes-type treatments, which either give  
3 people insulin or they make their body more  
4 sensitive to the insulin that is circulated.  
5 They're called insulin sensitizers.

6           And peripheral arterial disease, this was  
7 an area that he actually really explored within the  
8 trial. The main outcomes were something else,  
9 death, heart attack, stroke, for the trial.

10           But then as part of his dissertation, he  
11 was very interested in peripheral arterial disease,  
12 which is how blood flows to the legs and other  
13 coronary events outside of the heart.

14           And so part of his dissertation - he was  
15 a BARI 2D GSR. He then went on the cardiovascular  
16 training grant. And on his dissertation he used the  
17 BARI 2D Data. And these were actually great papers.  
18 They were diabetes care, they're an insulin journal.  
19 And they showed that in particular this insulin  
20 sensitization type drugs had a benefit for  
21 peripheral arterial disease.

22           This - this actually was a really nice  
23 example. Because the trial actually was neutral for  
24 the primary outcome, which again was death and heart  
25 attacks and strokes. There was not a significant

1 benefit with one of these drugs.

2           And in his research he pursued the  
3 secondary outcome, which is actually a very  
4 important outcome in terms of quality of life and  
5 function and did find that there was a benefit to  
6 one of the drug types. So it was both meaningful  
7 and it was an interesting question.

8           Q.       And the research that he did that formed  
9 the basis of these papers was then part of his  
10 dissertation?

11          A.       Absolutely.

12                 And we do - so two of the chapters were  
13 exactly probably these two things. And the third  
14 chapter actually wasn't published. It was a nice  
15 complement.

16                 It was how you measure peripheral  
17 vascular disease. It was actually a study of nice -  
18 a nice demonstration of measuring. But these two  
19 published papers I think - I don't know. Are they  
20 chapters one and two? I don't actually know. But  
21 they would be two chapters of his dissertation.

22          Q.       Yeah.

23                 And then the table of contents is in  
24 there?

25          A.       Yeah.

1 Q. Let's switch gears for a minute and talk  
2 about teaching?

3 A. Sure.

4 Q. Is there a teaching requirement for PhD  
5 students?

6 A. So not - not teaching, per se, in terms  
7 of leading a classroom, -

8 Q. Okay.

9 A. - leading a class, rather. But we have -  
10 so on the funding side we have those two TAs that I  
11 spoke about. Those are paid positions.

12 In addition, we have what's called a  
13 teaching practicum.

14 Q. Okay.

15 A. That is a requirement within - within our  
16 program.

17 Q. And the teaching practicum, does that  
18 require students to get classroom experience as part  
19 of it?

20 A. Absolutely.

21 We have - again, I keep using the word  
22 competencies. Because that is sort of a part of how  
23 we think about it. We have a communication  
24 competency. We have a data management competency.

25 And we have what we think is a teaching

1 competency. Many people, whether they go into  
2 academics or even if they go into working for the  
3 federal government or even I think pharmaceutical  
4 firms, et cetera, do - do a certain amount of  
5 teaching and instruction and communication.

6 And so the teaching practicum is a  
7 requirement and it is for credit. They get credit  
8 for it. They don't - they don't get paid, but they  
9 do get credit.

10 To support one of the classes in our  
11 department -. And when I say support it can be a  
12 variety of tasks. But it is, again, meant to help  
13 both, you know, the student learn how class is  
14 conducted, as well as how we evaluate students, how  
15 - how we interact with students, even sometimes when  
16 their problems - plagiarism, et cetera. And all  
17 kinds of issues that are part of classroom work.

18 Q. And when do students typically take this  
19 practicum?

20 A. So almost always they use the class that  
21 they've already had. So almost always it's second,  
22 third year or something like that.

23 Q. And who are the students involved in  
24 teaching? Since you don't have undergraduates in  
25 the School of Public Health.

1 A. Oh, who are the students?

2 Q. Yes.

3 A. They are fellow students who are either  
4 Master students or they're Doctoral students who are  
5 a year or two, you know, more junior within the  
6 program.

7 Q. How do students get assigned to what  
8 class they're using to satisfy this academic  
9 requirement?

10 A. Mostly, it's by their choice. We do have  
11 to make sure that several of classes are covered.  
12 But I have to say I teach an epidemiology methods  
13 class. And I have been fortunate, but I always tend  
14 to have volunteers who ask if they could be the  
15 teacher, the teaching assistant for my class the  
16 next year.

17 I think they typically choose a class, if  
18 possible, that they - typically they did very well  
19 and they liked the class.

20 And I like to assume they liked the way  
21 the class was run and so they want to be part of  
22 that. Occasionally I have had students who  
23 volunteer, because they want to work extra hard in  
24 that area. They maybe felt like they didn't fully  
25 understand the area.

1                   And so they are helping with the course.  
2 But I think - I think sometimes the motivation is to  
3 help prepare themselves.

4           Q.       So you mentioned that you have two TA  
5 spots within - within the department?

6           A.       Uh-huh (yes).

7           Q.       If the student is in one of those TA  
8 spots, can they also be taking the practicum in the  
9 same semester?

10          A.       I think they can. I mean, I guess if  
11 they were the TA the whole time they'd have to do  
12 that at some point, like an overlap. It's not  
13 common. I mean, they wouldn't be -. The teaching  
14 practicum has a little bit more of an emphasis on -.  
15 In fact, I think there's a requirement that they  
16 have to be - they have to present a certain amount  
17 of time in the classroom.

18                   Which is really meant to be like an  
19 internship. You know, give them some chance to both  
20 be doing grading as well as presenting, et cetera.  
21 So you'd have slightly different responsibilities  
22 for the teaching practicum. But it's very  
23 overlapping with what the TA does. The TA covers  
24 more classes at a time.

25          Q.       And those - those two TAs, what degree

1 program are they typically in?

2 A. I mean, they're Doctoral students for  
3 sure. But they - our program is probably 90 percent  
4 PhD and ten percent DRPH. And to be honest, once  
5 the students are there, we, as faculty, don't tend  
6 to know the difference very well, who's who.

7 Like we don't give different physicians  
8 to different students because they're a DRPH or  
9 because they're a PhD. We try to treat our Doctoral  
10 students regarding both the teaching side and the  
11 research side, you know, based on their skills and  
12 their interests and where - where they're going.

13 Q. I'll show you what we're marking as 102.

14 ---

15 (Whereupon, Respondent's Exhibit 102, Document,  
16 was marked for identification.)

17 ---

18 BY ATTORNEY FARMER:

19 Q. Can you identify what this is?

20 A. Absolutely.

21 I mean, I teach a course every year. I  
22 always teach one course a year. That's typical in  
23 our department.

24 But what we have is, again, for your -  
25 the person who is your - who is doing the teaching

1 practicum with you, I think it always works better  
2 when our expectations are aligned. And so we start  
3 with this agreement form.

4           And we meet typically a month or two  
5 before the class begins and we talk about what the  
6 teaching practicum will involve.

7           So it would be all of these aspects. But  
8 you'll say that you would like them to lead one of  
9 the classes. You'd like them to grade homeworks,  
10 but not exams, because I like to grade the exams  
11 myself.

12           I would like them to have office hours  
13 and communicate with the students who are having  
14 difficult in the class and to work with those  
15 students. And so, again, this is exactly what I was  
16 speaking about. The minimum of three minutes - 30  
17 minutes in front of the classroom.

18           For my class we have two classes a week.  
19 Each one is an hour and 15 minutes. Typically the  
20 TA leads one of the classes. Or one class period of  
21 the three class periods that TA leads.

22           I usually meet with them a couple times  
23 before, go over their slides, give them recommended  
24 reading before they prepare their slides. And then  
25 so we talk about what - again, what is going to be



1 involved before they start the process.

2 Q. So in this expected workload section, -

3 A. Uh-huh (yes).

4 Q. - is that something that is done jointly  
5 between the student and the faculty member? Or is  
6 that set by the faculty member?

7 A. I think - I mean, there's some - there is  
8 some discussion. But largely the concept would be,  
9 we have weekly homeworks. So we expect that he'll  
10 be grading a weekly homework.

11 And therefore, I would also like weekly  
12 office hours, because effectively the purpose of  
13 office hours is to assist the students as they're  
14 preparing for their homework.

15 So it's a discussion, but I think it is  
16 guided by the parameters of the course.

17 Does that make sense or -?

18 Q. I'm sorry.

19 And the course that they're assisting the  
20 faculty member with?

21 A. Exactly, exactly, exactly. And in some  
22 sense, I will also say their choice of which course  
23 they assist is based on part of that format. Right?

24 I mean, because some of our classes are  
25 SAS classes, which are in the lab. Some of our

1 classes are larger lecture classes. Some of our  
2 classes are smaller discussion classes.

3 So again, part of what they're choosing  
4 to do their teaching practicum in, the class  
5 parameters, again, differ course to course.

6 Q. When students are taking the practicum,  
7 could they be on a GSR?

8 A. Yeah, yeah.

9 This is a credit. Absolutely. It  
10 doesn't - it's like a class. It shows up on their  
11 transcript like that.

12 And in fact, it was very interesting.  
13 The students like them. It's documentation that  
14 they have had experience and work - and I think we  
15 heard this from our student representative on the  
16 Improvement Committee, which actually surprised me.  
17 They like that was there, so that when they go and  
18 their transcript is there, they're able to  
19 demonstrate that they also have some teaching  
20 experience.

21 Q. Meaning they like it for the job market?

22 A. Yeah. Absolutely.

23 Q. Are graduate students ever the primary  
24 instructor for a course?

25 A. No.

1 I don't think in our school at all. But  
2 certainly not - I can speak for our department, not  
3 in our department.

4 Q. I'm going to show you what we're going to  
5 mark as 103 and 104.

6 ---  
7 (Whereupon, Respondent's Exhibit 103, Document,  
8 was marked for identification.)

9 (Whereupon, Respondent's Exhibit 104, Document,  
10 was marked for identification.)

11 ---  
12 BY ATTORNEY FARMER:

13 Q. Can you identify what these are?

14 A. Do you mind if I start with 104?

15 Q. Sure.

16 A. Because 104 goes with 102.

17 Q. Okay.

18 A. Oh, no. No, I'm sorry. They both do.  
19 I'm sorry. I misunderstood.

20 Okay. You've got a student on the  
21 teaching side. Okay. Got it. Got it. So this is  
22 our - so what you've given me as 102 was what we do  
23 before we start.

24 Q. Okay.

25 A. And that's to make sure our goals are

1 aligned. After the course is over, we meet with the  
2 person who is serving in the teaching practicum.

3 And we not only talk to them about how  
4 they - you know, what they do well, what they could  
5 improve, what aspects went really well and what  
6 maybe didn't go as well.

7 And similarly, they tell us what - as  
8 part of that experience - because, again, this is a  
9 class for them - what was valuable, what wasn't  
10 maybe so valuable. And what could be improved as we  
11 move forward, in terms of the teaching practicum.

12 And since most of us tend to teach the  
13 same class, I tend to be in a cycle where I teach  
14 the same class for six or seven years. And even if  
15 I go on to a different class, it actually is useful  
16 to get their feedback about what worked well and  
17 what didn't work well. And I actually do believe  
18 that it does help for them to get the feedback as  
19 well.

20 Typically we fill these out each on our  
21 own. We come together and we meet. And we meet  
22 usually right at the end of the semester or right  
23 after the semester is over.

24 But I don't think they get credit unless  
25 these are turned in. So I think it's right at the

1 end of the semester we meet. And we discuss them.  
2 And I think it's actually a nice way to close out  
3 that whole experience.

4 Q. So just so it's - 103 is the one that's  
5 completed by the faculty member?

6 A. Correct.

7 Q. 104 is sort of that self-evaluation  
8 completed by the student?

9 A. Correct, correct, correct. So I  
10 apologize. I got mixed up at the beginning. That's  
11 absolutely correct.

12 Q. Do students seek out additional teaching  
13 experience sometimes?

14 A. Occasionally they do. Occasionally, as I  
15 said, you know, we have discussion classes. We have  
16 classes that are a little bit more lecture format.

17 I can recall a couple - I can recall a  
18 couple instances where students wanted to do a  
19 second teaching practicum, because they were  
20 particularly interested in going into academics and  
21 they did want that experience.

22 They don't always do it as a teaching  
23 practicum. Sometimes they even do it - they can get  
24 other kinds of certificates. I guess there's a  
25 certificate of - it's an education-type certificate.

1 So that they put together a portfolio.

2 They can get that kind of credit as well  
3 and some students do that.

4 Q. Could they also seek out one of the TA  
5 slots to do that?

6 A. They could. They - they could, they  
7 could. Because there's only two they don't turnover  
8 as often, but they could.

9 Q. This will be 105.

10 ---

11 (Whereupon, Respondent's Exhibit 105, Individual  
12 Development Plan, was marked for identification.)

13 ---

14 BY ATTORNEY FARMER:

15 Q. I'm showing you what we've marked as  
16 Exhibit R-105.

17 Can you identify this?

18 A. Absolutely.

19 This is our - I would normally call it  
20 our IDP or Individual Development Plan. But I guess  
21 it's formally called the Graduate Student  
22 Development Plan. This is - this is really a tool  
23 for us to use with the students that we advise.

24 And we - every year we are supposed to go  
25 over - they are supposed to complete this. They

1 send it to us or they bring it. And we are to  
2 discuss this information with them each year.

3 BY ATTORNEY FARMER:

4 Q. And what's the purpose of having this?

5 A. Personally there are two major purposes.  
6 There are probably more. It's - historically, this  
7 was introduced, interestingly enough, by NIH due to  
8 the concern that too many academicians assumed that  
9 their students wanted to be academicians, too. And  
10 so I think it was required, something close to this,  
11 not exactly this.

12 But they created a template. That it was  
13 required for all students who have federal funds.  
14 And almost all of our GSRs are NIH-trained, are on  
15 NIH grants. So that's considered federal funds as  
16 well as the training grants.

17 And I think it is to help the advisor  
18 understand what are the career goals of the student.

19 Which I think that the main point was in  
20 case they're not to be just like the advisor, him or  
21 himself, but rather they want to go into federal  
22 government, work for the FDA, work for CDC. Or if  
23 they want to work for industry, we should know.

24 The second part I really like about it,  
25 what I find useful. Because I'd like to believe

1 that I'm in touch with my graduate students and I do  
2 know what their career goals are. But that's a  
3 great goal. The part that I find the most useful is  
4 the assessment - their self-assessment of their  
5 skills. There's a list in here of the various  
6 skills.

7 I'm often surprised by that part, what  
8 they think they need more work on, what they want to  
9 work more on. And so it helps us then tailor their  
10 program to meet what they see as their deficiencies  
11 within the program, or within their training, I  
12 guess, is a better way to put it. Deficiencies  
13 within their own training so far.

14 Q. So let's - you talked about the career  
15 goals, -

16 A. Uh-huh (yes).

17 Q. - which is the first section on page one.  
18 The program requirements and the required  
19 coursework, does this give an opportunity for the  
20 faculty advisor to talk to the student about which  
21 courses they should be taking?

22 A. Yeah, it does. It does. I think we have  
23 - personally I think we have better tools. But this  
24 is another place where we have to do that. There  
25 are - you know, a Doctoral program is 72 credits.



1 Probably about half of that are required courses.

2           What you don't want to happen is them to  
3 think they're practically done and you realize  
4 you've missed a requirement. And so this is a way  
5 to help us keep track, to make sure that they're  
6 covering their requirements.

7           Q.     So in section three, which is on page  
8 four, it lists formal mentors. And then in section  
9 five on page five it lists informal mentors.

10          A.     Uh-huh (yes).

11          Q.     Could you explain what the difference is  
12 and why you try to capture both of them?

13          A.     Sure, sure.

14                 So formal mentors, once you get beyond  
15 coursework -. And in fact basically these  
16 milestones. Once you're past your preliminary  
17 exams, which are the written exams, you create a  
18 Dissertation Committee.

19                 And so as part of that Dissertation  
20 Committee, you have a dissertation advisor, who  
21 often is your academic advisor.

22                 But at that point you could change. I  
23 one time did have student after two years took a  
24 different position and changed who their advisor is.  
25 And that happens, you know, due to many reasons of

1 changing interests, et cetera.

2 But generally you then have your primary  
3 advisor for your Dissertation Committee, who is, you  
4 know, the primary mentor, hopefully, in terms of  
5 guiding your research. But then you have - and I  
6 really think this is an essential element of the  
7 dissertation. We have to have committee members.

8 And there are - there are rules at the  
9 University level and at the school level of how many  
10 need to be in your department, how many need to be  
11 outside of your department. How many are graduate  
12 faculty staff and how many need to be core faculty,  
13 et cetera. We also say that someone should have  
14 quantitative skills, for example.

15 And so you create a committee and they  
16 are your Dissertation Committee. They are the ones  
17 who eventually will evaluate the work and determine  
18 whether it is worthy of a PhD.

19 And in addition they are the ones who are  
20 guiding you through the whole process. So I  
21 actually just had someone who did their overview  
22 yesterday, one of my students. And so it was the  
23 first time the committee got together.

24 And we have someone who has  
25 cardiovascular expertise, we have someone that has

1 reproductive health expertise. We have someone who  
2 is a biostatistician that's there. And we have  
3 someone who's worked directly on SWAN besides  
4 myself, who's there.

5           And so the idea is that, this committee  
6 is selected to be able to formally mentor or guide  
7 the research of the student as they're moving  
8 forward. And often each with their own area of  
9 expertise to be able to lend to that process. And I  
10 think - I think this works really well. If you  
11 treat your committee well, it works very well.

12           Q.     And what about the role of the informal  
13 mentors that you also have?

14           A.     So informal mentors, you form your  
15 committee and then you start going through. And  
16 then it might be, oh, my goodness, I need to know  
17 more about bioinformatics. And you may start  
18 working with someone who is helping you with  
19 bioinformatics and they're not part of your  
20 committee. But you've learned a lot from them.

21                   They be a coauthor on a paper with you.  
22 Or they might just be someone who's helping you. It  
23 also could be a staff person.

24                   So we have - we have Doctoral level and  
25 high level Master's level staff people within our

1 projects who know a ton about the data and the area.  
2 And so it's not uncommon that a staff person is also  
3 working with the student, in terms of mentoring them  
4 and helping them learn, again, more about the area  
5 that they're going into.

6 Q. And just so the record is clear, you used  
7 the acronym SWAN. That is that Study on Women's  
8 Health that you mentioned previously?

9 A. The Study of Women's Health Across the  
10 Nation. Uh-huh (yes).

11 Q. Okay.

12 So turning to the section for the skill  
13 development section on page three that you talked  
14 about, so there is a list of items in the top half  
15 of the page.

16 A. Uh-huh (yes).

17 Q. Are these what you - and you meaning the  
18 department, considers to be sort of the essential  
19 types of skills that you need to be able to  
20 successfully complete a Doctoral degree?

21 A. We do.

22 And I think this might even be on a list  
23 that the school originally developed. I actually  
24 think it's probably good for the whole School of  
25 Public Health.

1           But this is specific for epidemiology.  
2   And absolutely, I think we have building blocks of  
3   knowledge. Like epidemiology and biostatistics. We  
4   have building blocks of skills, like using SAS,  
5   which is a statistical software, our data-management  
6   packages, et cetera.

7           But then there are all these other  
8   things, like being able to think through research,  
9   like the critical thinking. And there's the part  
10  that isn't directly taught in many classes. Like  
11  the management and leadership, the professionalism  
12  and ethics, the writing.

13           I mean, we may touch on various classes.  
14  But there are things that we're expecting them to  
15  pick up as they go through the program. And some  
16  have better opportunities to do so than others.

17           Q.     Does the experience that students get on  
18  funded research as a GSR or trainee help to develop  
19  these skills?

20           A.     I am absolutely convinced that it does.  
21  I think, you know, like you said before, teaching,  
22  you know, maybe comes from the academic department  
23  and other aspects. But the management and the  
24  professionalism, ethics, all kinds of things.

25           We have ethics of human research of who

1 we're working with in terms of participants. But we  
2 also have ethics of how we work with each other in a  
3 collaborative environment, which is more complex  
4 than I think one typically thinks of doing their own  
5 modules.

6           It seems awfully simple. Like which way  
7 is the right way and which is the wrong way. And  
8 you get into these research projects and the  
9 professionalism, the management, I think are things  
10 that they develop and they're exposed to initially.  
11 And then hopefully they participate to a - to a  
12 certain extent in those processes.

13           Q.     So you mentioned that you think earlier  
14 that you think the self-reading of the skills of the  
15 students is actually one of the most valuable parts  
16 of this.

17                     So if you sit down with your students  
18 and ---?

19                     HEARING EXAMINER:   Self-what, Ms.  
20 Farmer?

21                     ATTORNEY FARMER:   Excuse me?

22                     HEARING EXAMINER:   You said the  
23 self-what?

24                     ATTORNEY FARMER:   The self-rating -

25                     HEARING EXAMINER:   Thank you.

1                    ATTORNEY FARMER: - of these skills is  
2 one of the most valuable parts of this process.

3 BY ATTORNEY FARMER:

4            Q.        So if you sit down with your student and  
5 you see either an area where they identify that they  
6 have low skills or maybe there's a disconnect  
7 between what you think their skills are in an area,  
8 what they think their skills are in an area, what do  
9 you do?

10           A.        I mean, I think we - sometimes it's  
11 coursework. But often it's other kinds of  
12 opportunities.

13                    So if they feel like communication is  
14 something that they have as - that they would like  
15 more. And I think, oh, you know, we really should  
16 have them attend a conference and maybe try to  
17 present a poster. And often that's using the data  
18 that they're working on.

19                    And if they think that some of the  
20 management is - is lacking, you know, again within -  
21 the studies that I work on tend to be multicentral,  
22 which means not everybody's here at the University  
23 of Pittsburgh. And so we have weekly or monthly  
24 conference calls, some of which are actually are  
25 managing the study and some of which are actually

1 working on papers and research projects.

2           And so again, depending on the kinds of  
3 things that they might want to get involved with we  
4 definitely say, you know, maybe you should start  
5 joining the monthly calls and see how the management  
6 - how the Executive Committee works for this study  
7 or vice versa, join a research group.

8           Q.       Turning your attention to page five,  
9 which is the last page. Under section six it says  
10 finding your next position.

11          A.       Uh-huh (yes).

12          Q.       Why is that included?

13          A.       So I like to be idealistic and say that  
14 they're here to learn. But they're also here  
15 ultimately to get a job. And we do recognize that.

16                 And we do want to help with that process  
17 throughout - throughout their graduate studies. And  
18 again, as I said right at the very beginning,  
19 understanding what their goals are for getting a job  
20 is important, in terms of tailoring their - their  
21 program.

22                 But they also need to be prepared to go  
23 on the job market. And part of that is several of  
24 the things that are here. Putting together a  
25 résumé, meeting with the Career Office.



1           And then actually asking, often us, do we  
2 have connections in various programs, various areas  
3 about networking? Could they go to conferences,  
4 when they could again, network? You know, are there  
5 ways we could help them find a job?

6           Q.     You mentioned, and this refers to the  
7 Public Health Career Services Office, -

8           A.     Uh-huh (yes).

9           Q.     - can you explain what that is?

10          A.     Sure.

11                   We have - as a matter of fact I think her  
12 name is Joanne Anson is in charge of our Career  
13 Office. And she - she does talk to each of the  
14 faculty.

15                   She comes and talks at faculty meetings  
16 and lets us know what they have as opportunities.  
17 So that we're aware when we're advising our students  
18 that we can bring those up, in case they haven't  
19 recognized that.

20                   They do a few things. I think they have  
21 - the things I can remember that I've heard are very  
22 helpful, they have like an interview workshop, so  
23 they can role play through interviews. They have  
24 alumni networking breakfasts. So alumni, local and  
25 sometimes even from as far as like the DC area and

1 such, may come to have - that's a schoolwide event.

2 But it's a nice networking event, so that  
3 our students -. I actually think both learn about  
4 what kind of careers are out there as well as maybe  
5 get hooks into various organizations.

6 Q. So this Individual Development Plan that  
7 we've been talking about, this Exhibit 105, is this  
8 used by all graduate students in the program?

9 A. Yes.

10 So it - originally, as I said, it came  
11 about because NIH said that we needed to use it for  
12 federally funded graduate students. But we thought,  
13 you know what, this actually - this was several  
14 years ago - that it was a good idea for everybody.

15 And so we do mandate it in our department  
16 that every year - so once a year, typically in the  
17 spring advising, when you're advising them for  
18 courses in the fall or whatever they're doing in the  
19 fall, dissertation, we go through this with the  
20 students.

21 We do need to turn this into our Student  
22 Services Office. And this does need to be  
23 documented on an annual basis.

24 And it is really useful. It's like all  
25 those kinds of things. It's very useful.

1 Q. So you testified earlier that when  
2 students enter the Doctoral program they may have  
3 extensive knowledge in a single area. But they  
4 don't really have typically extensive research  
5 skills. Not the skills to be - to do Doctoral-level  
6 work.

7 Does the program give them those skills  
8 that they need?

9 A. Yes.

10 So I think - I think probably like most  
11 areas, we have -. There's sort of knowledge and  
12 skills. Right?

13 So there are these skills of being able  
14 to understand data analysis, statistical software.  
15 But there's also a lot of skills that come with the  
16 knowledge of understanding epidemiology methods,  
17 understanding biostatistics, understanding the  
18 diseases, the prevalence of disease and the spread  
19 of disease.

20 I think we do try very hard. We  
21 document what we think they should know as skills.  
22 And we've tried very hard to make sure -.

23 HEARING EXAMINER: These are like very  
24 high-order skills you're talking about.

25 Right?

1                   THE WITNESS: You know,  
2 interestingly -.

3                   HEARING EXAMINER: I think I answered  
4 the question.

5                   THE WITNESS: They are.

6                   But you know, on the other hand,  
7 they're writing and programming, too. It actually  
8 goes from - and I don't think you want me to go off  
9 on a mini, mini tangent.

10                   The School of Public Health, I really  
11 do think is unique in that very few people come in  
12 with undergraduate training in extensive public  
13 health. So we really do have - I can tell you among  
14 my students - people who have been math majors,  
15 people who have degrees in food science. People who  
16 have MDs that come in with those degrees.

17                   And so they come across a spectrum.  
18 And so they tend to all be bright and talented  
19 people. But we need to make sure that they're -  
20 comprehensively, that they have the skills both  
21 within public health and those tools to be able to  
22 do public health research.

23                   HEARING EXAMINER: I understand what  
24 you're saying. But you're admitting into your  
25 program everybody who has a BS or a BA.

1 Right?

2 THE WITNESS: Absolutely.

3 And the Doctoral program, a majority  
4 already have a Master's degree, a Master's as well.

5 HEARING EXAMINER: So what base level  
6 expectation of skills do you see or do you want?

7 THE WITNESS: So I actually believe we  
8 want talent and capability and -.

9 HEARING EXAMINER: What kind of  
10 capability?

11 THE WITNESS: I'm sorry?

12 HEARING EXAMINER: What kind of  
13 capability?

14 THE WITNESS: Within our program, they  
15 definitely do need both quantitative skills, because  
16 they do need to compute relative risks and  
17 attributable risk and the rate of diseases. And  
18 that is one area that definitely is limiting to  
19 some. So quantitative skills.

20 And I think the complement to that -  
21 well, I say there are three. They do need some type  
22 of a scientific comprehension. They need to have  
23 had biology.

24 They need to have a basic  
25 understanding of public health principles.

1                   And then third, and I believe this is  
2 universal, but it's true for us, too, communication.  
3 Both written and verbal communication skills.

4                   So for us that may be specifically  
5 grant writing. For us it may be manuscript writing.  
6 So we may tend to focus on the parts of  
7 communication that are most appropriate for our  
8 area. But it's quantitative communication and the  
9 content of some sort of biological area.

10                   HEARING EXAMINER: Go ahead, ma'am.

11                   BY ATTORNEY FARMER:

12                   Q. Does the experience that students get as  
13 GSRs contribute to developing the competences they  
14 need to be successful?

15                   A. Absolutely.

16                   I've repeatedly had students tell me that  
17 what they've learned through their GSR, which often  
18 are more things like learning how to manage some of  
19 the statistic software packages, learning how to  
20 manage some of the data management packages, and as  
21 well as how to utilize these things and apply them  
22 to real data -. That those are - that those are  
23 skills that - that go very far.

24                   Q. And the skills that the students learn,  
25 are they all important, whether the students decide

1 to ultimately go into academia or not?

2 A. I think they are, because -. Actually I  
3 think what they do at the CDC or even in  
4 pharmaceutical firms is really not - is really not  
5 that different. Right?

6 They're developing a drug. They're  
7 evaluating a device. They're evaluating a program.  
8 Most of what our people do in public health, there's  
9 a lot of overlap of what they're doing in the  
10 industry and the government, as well as academics.

11 Q. Do you need graduate students to do this  
12 research?

13 A. Do we need graduate students? Actually,  
14 truthfully, probably not.

15 Q. Why?

16 A. I'm not sure what you're looking for.  
17 But do we need them? No.

18 If - if I, you know, for each of these  
19 projects, if I had at least - you know, I have at  
20 least like ten people on one and, you know, 16 on  
21 the other, I have one or two graduate students.

22 Most of the - most of what we do is  
23 faculty and actually staff. We have 70 staff at the  
24 Data Center that are working on these projects.

25 ATTORNEY FARMER: Nothing further.

1                   HEARING EXAMINER: If you look at  
2 R-100 in front of you. It's a document -

3                   THE WITNESS: Yes.

4                   HEARING EXAMINER: - and your name's  
5 on there?

6                   THE WITNESS: Whose name is on there?

7                   HEARING EXAMINER: Your name's on  
8 there.

9                   THE WITNESS: Okay. My name's on  
10 there? Yep.

11                   HEARING EXAMINER: Is this article on  
12 your Curriculum Vitae?

13                   THE WITNESS: It is.

14                   HEARING EXAMINER: Okay.

15                   So this is considered to count as one  
16 of your publications?

17                   THE WITNESS: It is, it's interesting.  
18 We do - we do -.

19                   HEARING EXAMINER: It's very  
20 interesting today. That's good. All right.

21                   THE WITNESS: So it is on my CV and it  
22 does count on my CV. And it is interesting. I  
23 mean, we are evaluated for teaching service and  
24 research. And when I put this on my CV, I do - it's  
25 bold or underlined - but if we have a student where



1 we are their primary advisor, we do underline their  
2 name.

3 And this actually partially counts  
4 towards the mentorship and in terms of the - when we  
5 think of teaching, teaching has two components.  
6 Teaching is classroom teaching. And teaching is  
7 mentorship like on committees and -.

8 HEARING EXAMINER: So it's a double  
9 hitter for you?

10 THE WITNESS: And I think it is the  
11 kind of work we want to do, in terms of developing  
12 these kinds of students' research. But I'm very  
13 proud of this paper.

14 HEARING EXAMINER: So you're tenured.  
15 Right?

16 THE WITNESS: I am not.

17 HEARING EXAMINER: You're not?

18 THE WITNESS: I am actually - I have  
19 to tell you, I'm not on the tenure track.

20 HEARING EXAMINER: Okay.

21 And you're familiar with the tenure  
22 track?

23 THE WITNESS: I certainly am.

24 HEARING EXAMINER: And I think you  
25 already mentioned it, you have service, publication

1 and teaching -

2 THE WITNESS: Research.

3 HEARING EXAMINER: - research, are the  
4 triumvirate -

5 THE WITNESS: Yeah.

6 HEARING EXAMINER: - of what you're  
7 graded on? Or not graded on, evaluated on.

8 And well, how are you evaluated now?

9 THE WITNESS: No, I am a full  
10 professor.

11 HEARING EXAMINER: All right.

12 THE WITNESS: But I am not on the  
13 tenure track. I am - I am - I have - we have - I  
14 don't even know what they call it, the regular  
15 track, which is what I am.

16 HEARING EXAMINER: Yeah.

17 THE WITNESS: We have a tenure track.  
18 And they have a research track, too. But I am - I  
19 am a full professor, but I am not tenured.

20 HEARING EXAMINER: Okay.

21 But you're evaluated?

22 THE WITNESS: I am evaluated every  
23 year.

24 HEARING EXAMINER: Who evaluates you?

25 THE WITNESS: My Chair.

1                   HEARING EXAMINER: Okay.

2                   And then what standards are you  
3 evaluated on?

4                   THE WITNESS: So it is the same.

5                   HEARING EXAMINER: Okay.

6                   THE WITNESS: It's - it's research,  
7 and research if obviously the project we do, not  
8 just the publications, -

9                   HEARING EXAMINER: Right.

10                  THE WITNESS: - but the work we do  
11 within the projects, as well as the teaching and  
12 service.

13                  HEARING EXAMINER: So what year was  
14 this published, 100? It looks like 2014?

15                  THE WITNESS: Correct. Uh-huh (yes).

16                  HEARING EXAMINER: But you kind of  
17 would have known it was going to be published before  
18 that?

19                  THE WITNESS: Yes.

20                  HEARING EXAMINER: Okay.

21                  So, but this would have shown up  
22 during your 2013 to 2014 evaluation with your Chair.  
23 This article would have been reviewed by your Chair  
24 as part of your evaluation review?

25                  THE WITNESS: It is. And I don't know

1 before they're published.

2 HEARING EXAMINER: Right.

3 THE WITNESS: But I do wait until  
4 they're published. But I would say that it falls in  
5 the category more so for the mentorship than it does  
6 for the research. It is on my CV, but it is part of  
7 the mentorship that we do in our role as faculty.

8 HEARING EXAMINER: And then we had  
9 another article. What's the - what's the custom in  
10 your academic profession for first authors?

11 THE WITNESS: The custom is that they  
12 did it's usually most of the writing I think is the  
13 idea. That they wrote the initial draft. And so  
14 for a student like this, actually it's - you know,  
15 the journals do say what kinds of things you need to  
16 do.

17 These data were collected entirely by  
18 the study, by BARI 2D. He analyzed the data, he  
19 presented the data to this writing group, some of  
20 whom are in our department, but some of whom are  
21 people outside of our department.

22 He drafts the article. He sends it  
23 out to the writing group, they give comments. He  
24 revises it based on their comments. And then  
25 generally he goes through that process of submitting

1 it and then responding to the journal revisions and  
2 completes it that way.

3 HEARING EXAMINER: So again, you said  
4 this R-100, this one you evaluated, this mostly went  
5 to the teaching -?

6 THE WITNESS: You know, I don't know  
7 exactly where it goes to. But I certainly - I  
8 certainly very strongly designate it as my  
9 students'.

10 HEARING EXAMINER: You mentioned the  
11 graduate students sponsored by foreign nations.

12 THE WITNESS: Uh-huh (yes).

13 HEARING EXAMINER: Are they GSRs or -?

14 THE WITNESS: No, no. They are - they  
15 are a - the GSR provides, you know, funding for the  
16 student for living expenses -

17 HEARING EXAMINER: Yeah.

18 THE WITNESS: - as well as tuition.  
19 They typically don't do that. So they have their  
20 own funding.

21 They often volunteer to work on  
22 projects, because they need a dissertation, too.  
23 But they do not have a GSR.

24 HEARING EXAMINER: So they don't have  
25 any assistance?

1                   THE WITNESS: No. We have a few that  
2 don't have any.

3                   HEARING EXAMINER: And then they get  
4 PhDs just the same?

5                   THE WITNESS: They do.

6                   HEARING EXAMINER: Okay.

7                   You mentioned 70 staff members. Yeah?  
8 You have to say yes or no?

9                   THE WITNESS: Yes.

10                  HEARING EXAMINER: All right.

11                  THE WITNESS: I mean, I was in the  
12 Department of Epidemiology.

13                  HEARING EXAMINER: Yeah.

14                  That's all I want you to talk about.

15                  THE WITNESS: Okay.

16                  HEARING EXAMINER: Can you broadly  
17 categorize them, please?

18                  THE WITNESS: Sure.

19                  Within - so again I work in the  
20 Epidemiology Data Center. And our mission is to  
21 conduct clinical studies. And generally we focus on  
22 multicenter clinical studies.

23                  We largely have three areas of staff,  
24 what I call administrative, data management and  
25 statistical. There is some overlap, but the

1 administrative are what we call coordinators.

2           They are the people that are working  
3 with the site coordinators and helping kind of with  
4 the training, helping with other kinds of issues  
5 with recruitment, regulatory issues. Making sure  
6 everybody has their IRB approval, making sure they -  
7 anything serious events get reported, et cetera.  
8 So that's our administrative group.

9           We have a data management group. And  
10 so the data management group and assistance group  
11 are people who are expert on database, both the  
12 development as well as the collection of data, as  
13 well as the creation and cleaning of data.

14           HEARING EXAMINER: Those people that  
15 have backgrounds in computer science?

16           THE WITNESS: We do have some people  
17 that have - yeah, it's a type of computer science.

18           HEARING EXAMINER: All right.

19           And then what's the third group?

20           THE WITNESS: Statistics.

21           So those people analyze the data and  
22 work with our colleagues who -.

23           HEARING EXAMINER: Are those post-  
24 docs?

25           THE WITNESS: No.

1 I don't think we have any post-docs.  
2 We - they're staff. Or they're staff or faculty.

3 HEARING EXAMINER: And -.

4 THE WITNESS: So that's what I am. I  
5 was one of those to start with for six years.

6 HEARING EXAMINER: I would assume none  
7 of the administrative staff have PhDs?

8 THE WITNESS: I think that's correct.

9 HEARING EXAMINER: Okay.  
10 The - the other two groups. Do any of  
11 them have PhDs?

12 THE WITNESS: So -.

13 HEARING EXAMINER: And my follow-up  
14 question would be, do they have Bachelor's degrees?

15 THE WITNESS: So they at least have  
16 Bachelor's degrees. And most of them have Master's  
17 degrees. So they do have - in fact, a lot of our  
18 people who get Master's degrees become coordinators  
19 or analysts.

20 And so these coordinators of the study  
21 often have Master's degrees. So the administrative  
22 type - the data management people I think almost all  
23 have Master's degrees.

24 HEARING EXAMINER: Right.

25 THE WITNESS: And then the statistics



1 people, again, I think they almost everybody except  
2 like administrative support almost everybody has a  
3 Bachelor's degree.

4 HEARING EXAMINER: Right.

5 THE WITNESS: Statistics are a  
6 combination of Master's and we have a few Doctoral  
7 people.

8 HEARING EXAMINER: Or experience that  
9 is substantially equal to those levels, right, if  
10 they don't actually have that?

11 And then where is everyone working?

12 THE WITNESS: For us?

13 HEARING EXAMINER: Yeah.

14 THE WITNESS: So -.

15 HEARING EXAMINER: Like literally  
16 geography.

17 THE WITNESS: Yeah, yeah, yeah.

18 HEARING EXAMINER: In Oakland?

19 THE WITNESS: Yes, absolutely.

20 So the Epidemiology Data Center is  
21 literally one-half mile parking distance from the  
22 School of Public Health. It's called Schenley  
23 Place.

24 HEARING EXAMINER: And then everyone  
25 has a cubicle or an office?

1                   THE WITNESS: Correct.

2                   Including the - including the  
3 students, the GSRs do, too.

4                   HEARING EXAMINER: And then what are  
5 your hours?

6                   THE WITNESS: Mine?

7                   HEARING EXAMINER: No, for the staff.

8                   THE WITNESS: For the staff? So the  
9 University of Pittsburgh staff hours are  
10 37-and-a-half hours a week. And so we usually have  
11 some flexibility. Some people work four days,  
12 that's okay, but it's 37-and-a-half hours.

13                   HEARING EXAMINER: But generally it's  
14 like 7:30 to 3:00, 3:30 to 4:00?

15                   THE WITNESS: Oh, 8:00 to 5:00, right.  
16 I mean, I think the doors are open 8:00 to 5:00.

17                   HEARING EXAMINER: Let me see if I  
18 have any more questions.

19                   ATTORNEY FARMER: While you're doing  
20 that. Just for the record, IRB, can you define what  
21 that is?

22                   HEARING EXAMINER: Yeah.

23                   THE WITNESS: Internal Review Board.

24                   HEARING EXAMINER: That's the human  
25 studies one.

1 Right?

2 THE WITNESS: That's correct. That's  
3 correct.

4 And again, an essential part of what  
5 we do is human research. And I think we respect  
6 that.

7 HEARING EXAMINER: And if you look at  
8 R-99, that's the other - Dr. Althouse.

9 THE WITNESS: Okay, okay. Uh-huh  
10 (yes).

11 HEARING EXAMINER: With our  
12 conversations about R-100, it would be similar for  
13 this one.

14 This one's been listed on your CV?

15 THE WITNESS: Yes.

16 HEARING EXAMINER: And then it would  
17 have been part of - when you are evaluated by your  
18 employment requirements, you were evaluated, this  
19 would have been a substantial -. Who knows how much  
20 weight it would have had, but it would have had some  
21 weight as part of your evaluation?

22 THE WITNESS: Correct.

23 I am an academic. And part of my role  
24 is to teach and mentor. And this is evidence of  
25 that role.



1 with the Union.

2 Okay. So you talked a little bit about -  
3 a fair bit about the teaching practicum. And that  
4 is a two-credit course?

5 A. That is correct.

6 Q. And they're graded on that?

7 A. They don't get letter grades, but they do  
8 get a grade. Uh-huh (yes).

9 Q. And you mentioned that there are a couple  
10 TA positions?

11 A. Correct.

12 Q. Those are actual funded positions?

13 A. Correct.

14 Q. I'll give you Union Exhibit 243.

15 ---

16 (Whereupon, Petitioner's Exhibit 243, Letter for  
17 Appointment of Teaching Fellow, was marked for  
18 identification.)

19 ---

20 BY ATTORNEY MANZOLILLO:

21 Q. And can you tell us what this is?

22 A. To be honest, I'm not familiar with the  
23 details of this. But this looks like a letter for  
24 the appointment of our teaching fellows, which are  
25 now teaching assistants, yes.

1                   HEARING EXAMINER: Do you know who  
2 Ann Noon is?

3                   THE WITNESS: She is my Chair.

4                   HEARING EXAMINER: Go ahead.

5 BY ATTORNEY MANZOLILLO:

6           Q.       So this would be a letter for the  
7 teaching assistant appointments?

8           A.       Correct.

9           Q.       For the academic term. So I'm looking at  
10 their duties. Tell us your understanding of the  
11 difference between having a TA position - a TA or a  
12 TF position and being in the course practicum.

13          A.       So if you are in the practice, you are  
14 assisting with one course.

15          Q.       Uh-huh (yes).

16          A.       If you are - have the TA position, that  
17 is as you said a position that has financial support  
18 with it. As well as it supports the tuition for  
19 that student. Right?

20                   And so they tend to support the classes  
21 that need more than one student that's helping out  
22 with the class. So some of the required classes  
23 that are large in nature, as well as like the  
24 seminar, one of the things that are there helping  
25 with the seminar, which is our weekly opportunity to

1 have an exchange of research ideas from other  
2 faculty in the area and for the department.

3 Q. So part of the difference is just there's  
4 more work to be done in those classes?

5 A. It's making sure - yes. The larger  
6 classes have - they have a lot of students. And  
7 they have a lot of things that need to be done.  
8 Uh-huh (yes).

9 Q. And also looking at the second paragraph  
10 in 243, it says in the second sentence -.

11 A. Uh-huh (yes). Okay.

12 Q. It says you will be required to attend  
13 and provide AB support for the weekly department  
14 seminars.

15 A. Uh-huh (yes).

16 Q. So they provide AB support. What does  
17 that mean?

18 A. So the department owns a projector. And  
19 - and microphones or the school owns microphones.  
20 Actually I think we own the projector and I think  
21 the microphones are part of the school. But the  
22 seminar is in the auditorium. And so they need to  
23 help set up a projector for the person's slides, get  
24 the slides loaded up. So that when they give their  
25 talk, it all works. And they get a microphone.

1 Q. So for this particular position, part of  
2 their hours are going to include this AB thing in  
3 addition to the grading and office hours -

4 A. Correct.

5 Q. - and whatever course-related things they  
6 need to do?

7 A. Correct.

8 HEARING EXAMINER: Is it back to that?  
9 Okay.

10 ATTORNEY MANZOLILLO: This is Exhibit  
11 244.

12

---

13 (Whereupon, Petitioner's Exhibit 244, Appointment  
14 Letter for GSRs, was marked for identification.)

15

---

16 BY ATTORNEY MANZOLILLO:

17 Q. All right.

18 So I'm going to give you this. If you  
19 want to review it here?

20 A. Okay.

21 Q. This is Union Exhibit 244. How about  
22 this one?

23 A. Again, I'm not familiar with the details,  
24 but I am aware of what this is.

25 Q. And would this be an appointment letter



1 for GSRs?

2 A. Correct.

3 Also from the chairman of - chairwoman of  
4 our department.

5 Q. And if you read the second paragraph,  
6 that would discuss a 20-hour work requirement again.

7 A. Yeah.

8 Q. Okay.

9 ATTORNEY MANZOLILLO: I'd move to  
10 admit the Union Exhibits 243 and 244.

11 HEARING EXAMINER: Any objections?

12 ATTORNEY FARMER: No.

13 HEARING EXAMINER: Admitted.

14 ---

15 (Whereupon, Petitioner's Exhibit 243, Letter for  
16 Appointment of Teaching Fellow, was admitted.)

17 (Whereupon, Petitioner's Exhibit 244, Appointment  
18 Letter for GSRs, was admitted.)

19 ---

20 BY ATTORNEY MANZOLILLO:

21 Q. Now, if you can look at Union's exhibit  
22 32. It should be in one of the binders up there.

23 HEARING EXAMINER: Let me help you  
24 out.

25 What did you say?

1                   ATTORNEY MANZOLILLO: Thirty-two (32).

2                   HEARING EXAMINER: All right.

3                   THE WITNESS: Okay.

4 BY ATTORNEY MANZOLILLO:

5           Q.       And this would be the student handbook  
6 for the epidemiology Doctoral program?

7           A.       Correct.

8           Q.       So this would be the document governing  
9 the record students of the department?

10          A.       It's a handbook, so it's guiding. It's  
11 guiding the - yes.

12          Q.       Okay.

13                   And if you look through this, there's a  
14 number of student responsibilities. And it goes  
15 through the sort of department requirements.  
16 Towards the back it talks about the Doctoral student  
17 funding options.

18                   HEARING EXAMINER: It looks like 5830,  
19 if you look at the bottom.

20                   THE WITNESS: Okay. Thank you. Okay.

21 BY ATTORNEY MANZOLILLO:

22          Q.       Could you read to yourself just the  
23 Doctoral student funding option, the bottom of page  
24 5830 and the top of the next page?

25          A.       Okay.

1 Q. And does this document make clear, again,  
2 that there's an expectation of a 20-hour work week  
3 for a GSR appointment in exchange for the salary and  
4 tuition?

5 A. I think it does make clear what the  
6 expectations are in terms of working on the project.

7 Q. And it also says, if you look at the  
8 bolding, on the second page, the bolded portion, -

9 A. Okay.

10 Q. - that makes it clear that funding is not  
11 guaranteed, for the - due to the limited number of  
12 GSR positions.

13 So not every student gets a GSR position?

14 A. Correct.

15 It is something they generally desire.

16 Q. And then - if I go down and look at the  
17 supervision evaluation, there's a GSR evaluation  
18 form.

19 Can you turn also to Union's Exhibit 214?

20 A. I'm sorry?

21 HEARING EXAMINER: It's probably one  
22 of those other binders.

23 THE WITNESS: Okay.

24 HEARING EXAMINER: It would be the  
25 other white one, I think. The one you have in your

1 hand.

2 THE WITNESS: Okay. I'm sorry. I  
3 don't see two. I see one - 214? Is that you said.

4 ATTORNEY MANZOLILLO: Yeah, 214. If  
5 it's not in the binder we can mark a new one.

6 HEARING EXAMINER: Let's go off the  
7 record for one moment, while we find the exhibit.

8 ---

9 (WHEREUPON, A PAUSE IN THE RECORD WAS HELD.)

10 ---

11 HEARING EXAMINER: We're back on the  
12 record.

13 BY ATTORNEY MANZOLILLO:

14 Q. And I just want to clarify. Is this the  
15 GSR evaluation form that is referred to in that link  
16 in the bold on the Union Exhibit 32?

17 A. I believe it is. I mean, it's something  
18 that - yes, we use it all the time, to, again, I  
19 think make sure that we're working together in a way  
20 that both meets the students' needs and our needs.

21 Q. And the sort of check - satisfactory  
22 check offs, worked 20 hours per week consistently,  
23 performance matter, exceeded objectives, those are  
24 all sort of standard evaluations for GSRs?

25 A. They are.

1           And again, I guess I would just say that  
2 the word consistently means exactly what it says.  
3 Which is not that it's 20 hours every week. When  
4 they have exams, they're allowed to, you know,  
5 adjust accordingly, because they are students first.

6           And then when they have coursework  
7 demands that are high, we expect that they'll adjust  
8 accordingly as well.

9           Q.     I understand.

10           So there's going to be fluctuations in  
11 the hours. It's not a clock in, -

12           A.     Right. No, absolutely not.

13           Q.     - set 20 hours a week.

14           A.     And that's where that consistently comes  
15 in.

16           Q.     Yeah. Okay.

17           So I guess to understand a little bit  
18 about this Epidemiology Data Center -

19           A.     Sure.

20           Q.     - that you talked about, what - can you  
21 tell us, how is that funded?

22           A.     Mostly we're funded through NIH grants.  
23 And we do have some grants through the CDC. But  
24 mostly we have projects that we're doing that NIH is  
25 funding.

1           So the one I spoke about, SWAN, is funded  
2 by the National Institute on Aging. And currently  
3 funded also a clinical trial with the National  
4 Heart, Lung and Blood Institute.

5           And they're looking at the effectiveness  
6 of transfusion for patients who had heart attacks  
7 and low blood levels.

8           So we're funded by a series of projects  
9 that almost all are through NIH. But a number could  
10 be - some are through other organizations, like the  
11 CDC or occasionally a private institution.

12          Q.     And I'm trying to step beyond the - I  
13 understand there's funding, -

14          A.     Sure.

15          Q.     - but NIH is - is the majority of NIH  
16 funding what we would call an R01 grant?

17          A.     So probably the University or in our  
18 department probably the majority is R01. Personally  
19 I don't have any R01s, because truthfully the  
20 projects I work with are a little bit bigger.

21                 And so I think both of them are UR 1s,  
22 they're called. But it's a similar concept. It's  
23 something I apply for.

24                 I write up a proposal. I write up a  
25 budget and I get funded, if I'm lucky.

1 Q. And is - the Epidemiology Data Center, is  
2 that - I assume that's a collection of PIs putting  
3 into that funding or is that solely you?

4 A. No.

5 I am one of the three co-directors. But  
6 we have ten faculty.

7 Q. Three co-directors?

8 A. Uh-huh (yes).

9 Q. Okay.

10 A. But we are all faculty within the  
11 Department of Epidemiology. So we are part of - and  
12 our staff are all staff at the Department of  
13 Epidemiology. So we were are part of the Department  
14 of Epidemiology, but we're a center.

15 Q. Okay.

16 You're a center - the Department of  
17 Epidemiology -?

18 A. That's correct. So we're part of the  
19 School of Health.

20 Q. And when you - and you mentioned you were  
21 a staff person before you came over?

22 A. I was.

23 Q. Was that at this center?

24 A. Yes.

25 Q. Okay.

1                   So you served - you were one of those  
2 quote, unquote, 70 staff people that you had  
3 working -

4           A.       Right.

5           Q.       - on this project?

6           A.       I was.

7           Q.       So now as a co-director, and one of the  
8 primary sort of people who deal with grants, I  
9 assume continued successful research is a big part  
10 of to ensure you will continue to be funded going  
11 forward?

12          A.       Yes.

13          Q.       And do you determine how many folks or  
14 how many staff are - or at least you and the other  
15 co-directors, how many staff, how many faculty, how  
16 many GSRs will be employed at the center?

17          A.       I mean, again, partly it does have to do  
18 with the funding that we bring in. We write a  
19 budget before we submit it.

20                   And in that I often try, very hard, based  
21 on my academic mission, to include one. And if it's  
22 a large project, two slots for a GSR. And then if  
23 it gets funded, then I have the ability - because  
24 you have to - as I'm sure you know, we have to  
25 include, you know, resources for things like the



1 tuition and other things.

2           The GSRs are funded differently. So we  
3 get those in our budgets to start.

4           Q.     Now I talked to several GSRs in your  
5 department.

6           A.     Uh-huh (yes).

7           Q.     And you said ideally they're all doing  
8 work that they can use in their dissertation.

9           A.     Uh-huh (yes).

10          Q.     That's not always the case.

11                    Correct?

12          A.     It is not. We'd like to believe that the  
13 work, even if it's not directly part of their  
14 dissertation, it is academically-valuable. And that  
15 the skills that they learned from that work can be -  
16 I think can be applied to many other areas and even  
17 actually be promoted as they look for positions and  
18 jobs.

19          Q.     And hopefully so. But regardless, it's  
20 still whatever work they perform on the grant  
21 continues to the grant.

22                    Correct?

23          A.     It does.

24                    But we give GSRs, to be honest, quite a  
25 bit more leeway to pursue projects that are of their

1 interest that would be related to the grant.

2 Obviously it's funded by NIH for that  
3 purpose. So it has to be related.

4 But they are - they are given a different  
5 amount of leeway than the typical staff person would  
6 be given to work on projects of their interest  
7 within the project - within that -.

8 Q. At least through their grant or in the  
9 project?

10 A. Yeah.

11 Q. Tell me a little bit about what a GSR -  
12 what the GSRs do.

13 A. Sure.

14 They may help with - so we collect data  
15 and then we have to create datasets that would be  
16 analyzed.

17 So part of it they may be going through  
18 the data scene when there are errors in the data,  
19 when there's missing data. Follow up with sites to  
20 find out better about the scores.

21 So we have things like how heavy people  
22 are, what is their blood pressures? What are their  
23 lipid levels, their risk scores?

24 Right? And so - and their establisher  
25 scores.

1           And so one of the projects that recently  
2 one of the GSRs did in our study was to program this  
3 risk score based on this data.

4           So again, it's - then that score is used  
5 by they could be using it or other colleagues within  
6 the study might be using that score within a paper  
7 to evaluate the risk.

8           Q.       So that risk score is a way of evaluating  
9 - to help to evaluate the data you're collecting on  
10 the project?

11          A.       Yeah.

12                   And to evaluate the patients.

13          Q.       And it's available to anybody in the  
14 study who can use them?

15          A.       Right, exactly.

16                   And then -.

17                   HEARING EXAMINER: Hold on. Hold on.

18                   THE WITNESS: Sorry.

19                   HEARING EXAMINER: What are you about  
20 to talk about?

21                   THE WITNESS: Well, he said that they  
22 do. Because I was going to say to start they're  
23 doing a lot of basic program.

24                   And as they move on, at least within a  
25 place like the Data Center, our goal is that, again,

1 they are doing some analysis of the data to work  
2 with colleagues to hopefully, you know, produce  
3 something that's publishable and meaningful.

4 BY ATTORNEY MANZOLILLO:

5 Q. Okay.

6 So part of their goal may be - part of  
7 their work may also be the analysis of data?

8 A. Correct.

9 Q. We're just about done here. This is 245.

10 ---

11 (Whereupon, Petitioner's Exhibit 245, Public  
12 Health Home Page, was marked for identification.)

13 ---

14 BY ATTORNEY MANZOLILLO:

15 Q. And this - this is a copy of your public  
16 health home page?

17 A. Correct.

18 Q. So your teaching has primarily been the  
19 epidemiology method?

20 A. Correct.

21 Because my degree is in statistics. So  
22 the method sides of epidemiology is the area that  
23 I'm in most.

24 Q. And looking at active research studies, -

25 A. Uh-huh (yes).

1 Q. - so these are the primary projects that  
2 you're working on now?

3 A. Correct.

4 Q. And are these all tied to the Data Center  
5 or are they independent projects as well?

6 A. I think the last one is not tied to the  
7 Data Center, but the first four are.

8 Q. Okay.

9 And that one, how would you - how would  
10 you - how would you carry out that study, if it's  
11 not tied to the Data Center?

12 A. So in that one, I am simply an  
13 investigator. And I am advising on analytic methods  
14 and how they should approach the data.

15 But they have their own staff that are  
16 not Data Center staff. So I am faculty at the  
17 Department of Epidemiology and I am a code  
18 investigator on that last study.

19 But the - the analysis and the data  
20 management are done by other people, they're not  
21 done by the Epidemiology Center.

22 Q. Okay.

23 A. But the other four are.

24 Q. And those would all be grants you either  
25 wrote or co-wrote seeking funding for -?

1 A. Right.

2 Q. And they would work in the same way we  
3 described already -

4 A. Correct.

5 Q. - for the use of the staff?

6 A. Correct.

7 ATTORNEY MANZOLILLO: I don't have  
8 anything further.

9 I would move to admit Union's 245.

10 ATTORNEY FARMER: No objection.

11 HEARING EXAMINER: Admitted.

12 ---

13 (Whereupon, Petitioner's Exhibit 245, Public  
14 Health Home Page, was admitted.)

15 ---

16 ATTORNEY DANTE: Can we just - can we  
17 move our exhibits before we go off the record?

18 HEARING EXAMINER: Yeah. I have my  
19 list.

20 ATTORNEY DANTE: Ninety-six (96)  
21 through 105.

22 HEARING EXAMINER: Any objection?

23 ATTORNEY HEALEY: No objection.

24 HEARING EXAMINER: Ninety-six (96)  
25 through 105 are admitted.

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(Whereupon, Respondent's Exhibit 96, Publication, was admitted.)

(Whereupon, Respondent's Exhibit 97, Thesis, was admitted.)

(Whereupon, Respondent's Exhibit 98, Progress Letter, was admitted.)

(Whereupon, Respondent's Exhibit 99, Document, was admitted.)

(Whereupon, Respondent's Exhibit 100, Document, was admitted.)

(Whereupon, Respondent's Exhibit 101, Document, was admitted.)

(Whereupon, Respondent's Exhibit 102, Document, was admitted.)

(Whereupon, Respondent's Exhibit 103, Document, was admitted.)

(Whereupon, Respondent's Exhibit 104, Document, was admitted.)

(Whereupon, Respondent's Exhibit 105, Individual Development Plan, was admitted.)

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ATTORNEY DANTE: Thank you.

Give us just a bit.

HEARING EXAMINER: Off the record.

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(WHEREUPON, A SHORT BREAK WAS TAKEN.)

---

HEARING EXAMINER: Redirect?

---

REDIRECT EXAMINATION

---

BY ATTORNEY FARMER:

Q. Dr. Brooks, you were asked on Cross Examination some questions about the, you know, the international students who may be funded by their own countries.

And you mentioned that they will sometimes volunteer to work on some of the funded projects. Was that your testimony?

A. Yes, probably.

So again, they have to pick a dissertation area. And so they are often working on the same projects side by side with our GSRs and other people. When I say work on it, they're, again, generally using these skills for their dissertation project. But they are - they have a desk right next to the person with the GSR.

Q. And the teaching practicum, they have all the same requirements?



1           A.       The teaching practicum has - yeah.  
2 That's a department requirement for all. It's meant  
3 to building the teaching in the department.

4           Q.       And the IDP forms are the same?

5           A.       Yes.

6           Q.       So if I walked into the Data Center,  
7 would I be able tell by walking in and looking at  
8 what students are doing who was a GSR versus who was  
9 self-funded, if I just looked at them?

10          A.       If you just looked at them and saw who  
11 they are.

12          Q.       Right.

13          A.       No, I don't think you can tell that.

14                    ATTORNEY FARMER: I have no further  
15 questions.

16                    HEARING EXAMINER: Limited Recross.

17                               ---

18                               RE CROSS EXAMINATION

19                               ---

20 BY ATTORNEY MANZOLILLO:

21           Q.       Just in the practicum you mentioned, that  
22 everyone has to take the practicum, the people who  
23 are funded as TAs and TFs, just a point of  
24 clarification, they also have to take the practicum  
25 at some point?

1           A.       I think they have to have the practicum.  
2 I think they do. That's my impression. I'm not 100  
3 percent certain.

4                     But my impression is that they would have  
5 to do that. It might be that they can have that  
6 overlap with their TA duties. They might be able to  
7 use the same class and just make sure that they  
8 fulfill some of the requirements of the practicum.  
9 But I think that they do have to do it.

10                    ATTORNEY MANZOLILLO: I don't have  
11 anything else.

12                    HEARING EXAMINER: All right, ma'am,  
13 professor, you can step down.

14                             Off the record.

15                                     ---

16                             (WHEREUPON, AN OFF RECORD DISCUSSION WAS HELD.)

17                                     ---

18                    HEARING EXAMINER: Back on the record.  
19 Raise your right hand for me.

20                                     ---

21                             PAUL FLOREANCIG, PH.D.,  
22 CALLED AS A WITNESS IN THE FOLLOWING PROCEEDING, AND  
23 HAVING FIRST BEEN DULY SWORN, TESTIFIED AND SAID AS  
24 FOLLOWS:

25                                     ---

1                   HEARING EXAMINER: Spell your name for  
2 us.

3                   THE WITNESS: Paul, P-A-U-L,  
4 F-L-O-R-E-A-N-C-I-G.

5                   HEARING EXAMINER: Can you say that?

6                   THE WITNESS: Floreancig.

7                   HEARING EXAMINER: Your witness,  
8 ma'am.

9                   ATTORNEY DANTE: Thank you.

10   ---

11   DIRECT EXAMINATION

12   ---

13 BY ATTORNEY DANTE:

14           Q.       Dr. Floreancig, where are you currently  
15 employed?

16           A.       The University of Pittsburgh.

17           Q.       And how long have you been at the  
18 University of Pittsburgh for?

19           A.       Since 1999.

20           Q.       In what capacity are you employed by the  
21 University?

22           A.       I'm the professor of chemistry and the  
23 Director of Graduate Studies in that department.

24           Q.       How long have you been a professor?

25           A.       Since 2010.

1 Q. In what school is the Department of  
2 Chemistry housed?

3 A. It's in the Dietrich School of Arts &  
4 Sciences.

5 Q. Do you have an administrative role in the  
6 department?

7 A. The Director of Graduate Studies.

8 Q. Okay.

9 And how long have you held that role for?

10 A. One year.

11 Q. Okay.

12 And what are some of your  
13 responsibilities as the Director of Graduate  
14 Studies?

15 A. As Director of Graduate Studies, I work  
16 with an administrator. And we inform studies the  
17 various expectations that they have, in terms of  
18 different benchmarks that they want to achieve,  
19 different guidelines that they want to follow.

20 I act as an intermediary at their  
21 disputes between the students and the faculty or the  
22 program in any way. I act on behalf of the graduate  
23 students.

24 Q. Okay.

25 Approximately how many graduate students

1 are in the department?

2 A. Approximately 200.

3 Q. And what types of graduate degrees does  
4 the department offer?

5 A. The vast majority of our students work  
6 toward a PhD degree. Those who have a change of  
7 heart in the program can earn a Master's degree.

8 And we also offer a Master's degree for  
9 students who may be in local industry or in law  
10 firms who want to have some sort of scientific  
11 documentation as part of a degree.

12 So they can get a Master's degree. But  
13 the vast majority of our students enter the program  
14 in the PhD - seeking a PhD.

15 Q. Okay.

16 And for those PhD students, do you  
17 provide funding to them?

18 A. Yes, we do.

19 Q. What is that funding contingent upon?

20 A. That funding is contingent upon having -  
21 sorry, the proper phrase is eluding me at the  
22 moment, but they're in good standing in the program.

23 Q. Okay.

24 And can students switch between funding  
25 sources during their time in the program?

1 A. Yes, they can.

2 Q. And could that vary from year to year?

3 A. Yes, it can.

4 Q. And semester to semester?

5 A. Yes.

6 Q. So someone could be on a fellowship one  
7 semester and GSR the next semester or something like  
8 that?

9 A. That is correct.

10 Q. What is the purpose of providing funding  
11 to the graduate students?

12 A. The purpose of providing funding to the  
13 graduate students is that it allows them to meet  
14 their basic living requirements without having to be  
15 distracted from their focus of study.

16 Q. Okay.

17 Are students expected to gain research  
18 experience during their time in the PhD program?

19 A. Yes, they are.

20 Q. When do they typically begin their  
21 research?

22 A. Most people begin their research during  
23 the summer after their first year of classes.

24 Q. And is that research sometimes supported  
25 by an externally-funded grant?

1           A.     Yes, it is.

2           Q.     How do students figure out what their  
3 dissertation topic will be?

4           A.     The dissertation topic is part of a  
5 number of dialogues and takes several steps. So  
6 students will come in and meet with several  
7 different professors who have made presentations to  
8 the entire first year graduate class about the  
9 general topics that they are working on.

10           After this, the students will meet with  
11 the faculty members. They will have the opportunity  
12 to have desks in their labs, so they can interact  
13 with the graduate students in those groups. And if  
14 a student selects a particular advisor, then the  
15 dialogue becomes more focused on the particular  
16 project.

17           Again, a student is going to select a  
18 research advisor based on the mash of interests.  
19 And then the advisor will present a number of  
20 subtopics that fit with the themes of the research  
21 and the group, and ask the student about interests,  
22 about career aspirations. And then enter into the  
23 dialogue about what the specific project is going to  
24 be.

25           Q.     All right.

1           Can you give us some examples of what  
2 research looks like in the Chemistry Department?

3           A.     Okay.

4           So the Chemistry Department is very  
5 broad, in terms of the types of research that it  
6 does. One major area is synthetic chemistry. And  
7 synthetic chemistry is running a sequence of  
8 chemical reactions and isolating the products,  
9 getting the identities of the products, testing the  
10 hypothesis as to whether these are correct or not  
11 and then developing strategies for moving forward.

12           We also have a strong analytical  
13 component, where we might take a material or  
14 something like a biological sample. And a student  
15 will be asking questions about the content of this.

16           So they will - will look at this through  
17 various types of instrumentation that gives  
18 information on the content of the material. A third  
19 area is computational chemistry. This is  
20 theoretical in its content.

21           And that means that there will be more  
22 discussions and more time spent at a computer.

23           Q.     So for - for a number of the examples  
24 that you mentioned, it seems like students, in order  
25 to do the research that they need to do for their



1 degree, would need access to institutional  
2 resources?

3 A. That's correct.

4 Q. Chemical compound. I think you mentioned  
5 certain isolating products. Things of that nature?

6 A. Yes.

7 Q. And are those resources often covered by  
8 a grant?

9 A. That is correct.

10 Q. And is that true for students who may be  
11 conducting research when they're supported by  
12 fellowship?

13 A. That is also correct, yes. They will be  
14 using chemicals that are purchased from a grant,  
15 though everything else would be covered by the  
16 fellowship.

17 Q. So they could still be working of the  
18 same project that someone who is on the GSR on a  
19 particular grant is working on?

20 A. Yes, absolutely.

21 Q. Do you expect that the research that  
22 students are doing, including research when it's  
23 funded on an external grant, to contribute in some  
24 way to their dissertation?

25 A. Yes, it does.

1 Q. Do students publish during the course of  
2 their time in your program?

3 A. Yes, they do.

4 Q. Why - why is that?

5 A. The publication, the purpose of  
6 publication is multifold. From the student's  
7 perspective, though, it provides hard copy for  
8 establishing a record of accomplishment.

9 Further career objectives would be based  
10 on their having this record of accomplishment.

11 Q. And do students publish regardless of how  
12 they're funded?

13 A. Yes, they do.

14 Q. Have you published with students before?

15 A. Yes.

16 Q. Can you explain what your role was in  
17 that process?

18 A. My role is to offer my guidance as  
19 someone who has been involved with approximately 80  
20 publications over the years to the students. So  
21 it's an interactive process, where the student and I  
22 will discuss - particularly the student will get the  
23 first response of defining what's important about  
24 the project. How we set up the background, how we  
25 talk about what's going to be important. And to set

1 up a draft.

2           The - my responsibility is to make sure  
3 that the language is proper. People - people don't  
4 come into graduate school with an innate ability to  
5 put out a scientific publication.

6           There is differences in language. There  
7 is differences in active and passive voices. And  
8 these are the things that I work with the students  
9 and explain the purpose of how different language is  
10 used. And ultimately things go back and forth. And  
11 we get a product that we're all happy with and  
12 submit.

13           Q.       Okay.

14           I'm going to show you what I've marked as  
15 Respondent 106 and 107.

16

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17           (Whereupon, Respondent's Exhibit 106, Published  
18 Paper, was marked for identification.)

19           (Whereupon, Respondent's Exhibit 107,  
20 Dissertation Pages, was marked for  
21 identification.)

22

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23 BY ATTORNEY DANTE:

24           Q.       Starting with R-106, do you recognize  
25 this document?

1           A.     Yes, I do.

2           Q.     Can you explain what it is?

3           A.     Okay.

4                     So this was a paper that I published with  
5 my graduate student, Chung Lang Liu, and another  
6 graduate student who works in Professor Ken Jordan's  
7 lab in the Chemistry Department, who has more of a  
8 computational expertise.

9                     Chung Lang did the chemical reactions in  
10 this. And Shoga did the computational work for  
11 this.

12                    It was based on a project that we were  
13 working on as part of two different grants.

14                    One grant ran into the other. So it was  
15 covered on two different grants. And it was based  
16 on making molecules of a particular candidness.  
17 Just like our hands, molecules have mirror image  
18 relationships.

19                    So we were trying to make molecules of  
20 one-handedness through a simple process that was  
21 related to some earlier work that we had done in the  
22 group.

23           Q.     Okay.

24                    And approximately how long did the  
25 research take to - that ultimately resulted in the

1 publication?

2 A. This research took approximately two  
3 years.

4 Q. And did this research ultimately end up  
5 in the student's dissertation?

6 A. Yes, it did.

7 Q. And if you could take a look at R-7 -  
8 R-107? Do you recognize this document?

9 A. Yes.

10 Q. And what is this document?

11 A. This document is the first several pages  
12 of Dr. Liu's dissertation.

13 Q. And did R-106 become a chapter in R-107?

14 A. Not exactly, because the publishers own  
15 the copyright for the exact words. But the content  
16 in R-106 became a chapter in R-107.

17 Q. And can you separate the research that  
18 the student performed on his appointment from the  
19 research that is contained in the dissertation?

20 A. No.

21 Q. And is - what you just described from the  
22 research standpoint and the publications and the  
23 dissertation, is that common in the Chemistry  
24 Department?

25 A. Yes, it is.

1 Q. Do students receive academic credit for  
2 the research we just discussed?

3 A. Yes, they do.

4 Q. And are - do students need those credits  
5 to graduate?

6 A. Yes.

7 Q. So the research that you just talked  
8 about that the student might be doing on their  
9 appointment is also the same research that they're  
10 receiving academic credit for?

11 A. Yes.

12 Q. Let's move on to teaching.

13 Does the Chemistry Department have a  
14 teaching requirement?

15 A. Yes.

16 Q. Why does it have a teaching requirement?

17 A. Teaching serves many roles. The key one  
18 is that it's actually true that to teach something  
19 is different than to learn it in a class.

20 Teaching a chemistry lab will provide a  
21 much greater depth of understanding of the topic and  
22 the techniques than you can possibly get by  
23 passively sitting in a classroom.

24 Q. Does the department prepare its students  
25 in any way before they enter the classroom?

1 A. Yes, extensively.

2 Q. Can you explain what they do?

3 A. Okay.

4 So there are multiple areas of teaching.  
5 The most important that we can look at is training  
6 the students in safety. And so we have to be  
7 certain that our students are safe in the lab and  
8 that they can keep the other students safe in the  
9 lab.

10 The students are shown the experiments  
11 that they will be teaching throughout the course of  
12 the semester and they will perform them on their  
13 own. So that they have this hands-on experience and  
14 can understand the problems, the students will also  
15 get information on proper evaluation techniques and  
16 on how to - how to interact with students with  
17 respect to the grading process.

18 Q. Do they receive any mentoring during the  
19 time that they are engaged in teaching?

20 A. Yes.

21 During the course of the semester they  
22 will meet with their lab instructor once a week to  
23 provide additional insights as to how the  
24 experiments are going.

25 Q. Do students satisfy this academic

1 teaching requirement by serving as a TA?

2 A. Yes, they do.

3 Q. Can students receive academic credit for  
4 teaching?

5 A. They can.

6 Q. Can they request a letter grade?

7 A. They can request a letter grade, yes.

8 Q. Why do students do that?

9 A. Students would request a letter grade if  
10 they have aspirations for an academic career and  
11 want an official record that shows that they have  
12 been involved in teaching.

13 And usually the students who request a  
14 record are very good at teaching, so that grade will  
15 be A.

16 Q. And that will show up on their  
17 transcript?

18 A. That will be on their transcript. And  
19 that's something they can have as a record in their  
20 interviewing for their future jobs.

21 Q. And that's something that they could have  
22 done to satisfy the academic requirement for  
23 teaching?

24 A. Yes, sure.

25 Q. And done by serving as a TA?



1           A.     Yes.

2           Q.     When students arrive into the program,  
3 what is their skillset? And how does that differ  
4 from being an independent researcher, when they  
5 leave?

6           A.     Skillsets will vary. I would say that  
7 even our best students who have extensive  
8 undergraduate research experience still only have  
9 technical skills.

10           We have to remember that even the - the  
11 most ambitious undergraduate researchers only have  
12 approximately 10 to 15 hours in their week where  
13 they can be doing research. That means that our -  
14 our most experienced first year graduate students  
15 only have time to learn the techniques.

16           Independent research requires an  
17 interaction with the project. It requires abundant  
18 experimentation. And it requires hypotheses that  
19 must be tested.

20           It requires analysis to tell if that  
21 hypothesis is correct. And when it's not, what does  
22 the failure tell us? This is something that is a  
23 much higher level than any student can possibly  
24 receive as an undergraduate researcher.

25           Q.     So are - the teaching and the research

1 experiences that you talked about today, do you  
2 believe that they are integral components of the  
3 academic program?

4 A. Absolutely.

5 ATTORNEY DANTE: I don't have anything  
6 further.

7 HEARING EXAMINER: Cross Examination -  
8 oh. Time for your defense?

9 ATTORNEY SHARMA: Just a minute.

10 HEARING EXAMINER: We will take a  
11 break, sir, off the record.

12 ---

13 (WHEREUPON, A SHORT BREAK WAS TAKEN.)

14 ---

15 HEARING EXAMINER: We're back on the  
16 record for Cross Examination.

17 ---

18 CROSS EXAMINATION

19 ---

20 BY ATTORNEY SHARMA:

21 Q. Good afternoon, Professor Floreancig. My  
22 name is Maneesh Sharma. I'm an attorney with the  
23 Steelworkers.

24 I actually do only have a few questions  
25 for you. I say that every time, but I mean it this

1 time.

2 ATTORNEY DANTE: So this time we'll  
3 believe you?

4 ATTORNEY SHARMA: Yeah. Well, we'll  
5 see how it is. But I hope it's only a few  
6 questions.

7 I'm going to begin by handing you what  
8 I have marked as Union Exhibit 246.

9

---

10 (Whereupon, Petitioner's Exhibit 246, Graduate  
11 Student Handbook, was marked for identification.)

12

---

13 BY ATTORNEY SHARMA:

14 Q. Can you look at that and let me know if  
15 you recognize it?

16 A. I recognize it. But I couldn't quote  
17 verse for you.

18 Q. Well, could you tell me what it is?

19 A. This is our Graduate Student Handbook.

20 Q. Okay.

21 There is a few things I wanted to ask  
22 about in here. So first of all, you talked about  
23 with the teaching requirement that you can get a  
24 credit for that.

25 A. That's correct.

1 Q. Is that correct?

2 But that credit does not count towards  
3 the minimum 12 credits that you need for working  
4 towards a Master's degree.

5 Correct?

6 A. Okay.

7 I think - and I just want some  
8 clarification here. So to earn a Master's degree,  
9 students need to have 12 credit hours in what we  
10 call our graduate-level courses, which are 1000  
11 level and above.

12 Q. Uh-huh (yes).

13 A. And you are correct that teaching does  
14 not count toward those 12.

15 Q. Okay.

16 And I'm going to ask you to turn to page  
17 six on there.

18 And if you look at what looks like  
19 section 2.2.

20 A. Okay.

21 Q. Universitywide 12-credit requirement, GPA  
22 classification. And it says that the requirement of  
23 the 12-credit coursework at the 2000 to 3000 level.  
24 And that - and that excludes the teaching credit.

25 Is that correct?

1           A.     Okay.  This is correct.

2                     I will apologize for not being clear.  
3  We're under the process of perhaps changing some  
4  requirements there.

5                     And 1000 was in my head, but it is  
6  currently 2000 or 3000.

7           Q.     Okay.

8                     And then we turn to the next - turn to  
9  page eight, please.  And under Section 2.4(c).  You  
10 had testified that you could request a letter grade  
11 for your teaching.

12                    Is that correct?

13           A.     That is correct.

14           Q.     But that as indicated in this section  
15 that teaching grade would not be counted in the GPA.

16                    Is that correct?

17           A.     That is correct.

18           Q.     And I'm going to ask you to turn to page  
19 15, appendix one.  And in the paragraph that begins  
20 at the end of the first term of teaching, do you see  
21 that paragraph?

22           A.     Yes.

23           Q.     The last sentence there talks about the  
24 number of appointments.

25                    Do you see that sentence?

1           A.       Number of appointments will be dependent  
2 upon undergraduate teaching schedule, yes.

3           Q.       And so the number of available TA, TF,  
4 positions, depending on the number of undergraduate  
5 courses that are being offered, projected enrollment  
6 in chemistry courses, in laboratories. And a number  
7 of TA, TF allocations that have come from the  
8 University.

9                    Is that correct?

10          A.       That is approximately correct.

11          Q.       Okay.

12                    And how would that be more correct?

13          A.       It would be more correct by realizing  
14 that the department will find funds to support  
15 additional students on teaching fellowships beyond  
16 what the Dietrich School will fund, if there is a  
17 great need.

18                    So at times of very lean government  
19 funding, the department will step up to be certain  
20 that students can continue into the program.

21          Q.       Okay.

22                    And by - when you say great need, is that  
23 defined by the available courses as far as the  
24 available teaching slots for the courses?

25          A.       No.

1           The need that I was discussing refers to  
2 the stipends that the students received. So the  
3 support that the students received.

4           The students can be supported either  
5 through a grant or through teaching or through some  
6 mixture thereof. And in very lean fiscal times,  
7 grants are not abundant. And the department will  
8 make accommodations, so that students can continue  
9 in the program with their current level - at their  
10 proper level of support.

11           Q.     Okay.

12                     But will those students necessarily be  
13 given a teaching appointment or will they get some  
14 other sort of appointment or some other sort of  
15 grant?

16           A.     There are some other appointments that  
17 benefit the students as well. So we have them work  
18 at our instrumentation labs.

19                     And these are generally students who have  
20 career aspirations in analytical techniques. So we  
21 try to match them with a position where their  
22 skillset will be enhanced by working with the  
23 instrumentation groups.

24           Q.     Okay.

25                     Now, I'm going to ask you to turn in this

1 to - so it looks like page 35. These are the  
2 policies for teaching assistants and teaching  
3 fellows.

4 Are you familiar with these?

5 A. Not specifically.

6 Q. Okay.

7 HEARING EXAMINER: But generally?  
8 Generally, yeah?

9 ATTORNEY SHARMA: Generally.

10 HEARING EXAMINER: That's good enough.

11 BY ATTORNEY SHARMA:

12 Q. You are the Director of Graduate Studies  
13 of the department?

14 A. That is correct.

15 Q. Okay.

16 HEARING EXAMINER: General knowledge  
17 is good enough.

18 ATTORNEY SHARMA: Okay.

19 BY ATTORNEY SHARMA:

20 Q. And I see here, for instance, if you look  
21 at page 36, you have the duties of teaching  
22 assistants, teaching fellows. And then the first  
23 one says prepare for and meet all assigned classes  
24 promptly at the scheduled time and place.

25 Do you see that one?



1           A.     Yes, I do.

2           Q.     And then it talks about unexcused  
3 absences.

4                     Do you see that?

5                     It's in the last paragraph. I mean, the  
6 last sentence. And then it talks about that if you  
7 have unexcused absences, it will jeopardize future  
8 TA appointments.

9                     Is that in - it sounds like you've only  
10 been DGS for a year. But have you had that  
11 experience, of somebody have unexcused absences that  
12 had put in jeopardy their TA appointment in the  
13 future?

14           A.     That is correct.

15                     And that's because we view the teaching  
16 in a way that reflects the standing of the student  
17 in the field.

18                     I will say that when students - we have  
19 very good students. If they are not showing up for  
20 their assignments, then sometimes they have had a  
21 change of heart about their career. And that's the  
22 manifestation of that.

23                     So but yes, it does reflect poorly on  
24 their standing in the program if they are shown to  
25 be unreliable in their teaching role.

1 Q. Okay.

2 And if you'd turn to the next page, page  
3 37. Do you see about halfway down the page? It  
4 requires that the TAs, TFs attend all schedule TA,  
5 TF, lab instruction meetings -

6 A. Yes.

7 Q. - in person?

8 And again the consequences for failure to  
9 do so will result in written warnings to remove all  
10 the TA assignments and loss of TA funding.

11 Is that - so again, as you were  
12 describing, it is important that TAs and TFs attend  
13 the lab instruction meetings?

14 A. That is correct.

15 Q. And then they lose their TA funding, if  
16 they have it?

17 A. Yes.

18 So these - these weekly instruction  
19 meetings will focus on safety aspects and will focus  
20 on how to communicate the material properly. So  
21 they are quite important for successful completion  
22 of a teacher - teaching role.

23 Q. Okay.

24 And then just below that, I see that  
25 there's recommended schedule for TA, TF workload.

1 A. Okay.

2 Q. And both of these add up to about 20  
3 hours. Twenty (20) hours is the expectation for  
4 teaching assistant, teaching fellows.

5 Correct?

6 A. That is a guideline. That is what we  
7 tell students, because history tells us that their  
8 role as a TA will take about 20 hours per week.

9 There is no requirement for 20 hours per  
10 week. But so students can mentally prepare for the  
11 week ahead, we give them this guidelines.

12 Q. Right. Okay.

13 And the - the expectation is that they  
14 don't work more than 20 hours.

15 Is that correct?

16 A. That is correct.

17 Q. I'm going to distribute a copy of - we  
18 actually already have this in the record. This is  
19 Union Exhibit 99. I thought it'd be easier to have  
20 another copy of it.

21 Do you recognize that document?

22 A. No, I do not.

23 Q. You've never seen a letter like this  
24 before?

25 A. No.

1 Q. All right.

2 A. This comes from the Dean's Office, not  
3 the Chemistry Department.

4 Q. It doesn't come through - and it's not  
5 returned to you when it's done?

6 A. No.

7 Q. Okay. Okay. Well, we can just put that  
8 aside.

9 Going back to the handbook. If we can  
10 turn to page 40.

11 The first bolded line, there's a lack of  
12 accepted - lack of acceptable performance and  
13 teaching responsibilities may lead to a loss of  
14 teaching assistantships in the future.

15 This - why don't you review this section?  
16 And I'll ask you some questions about it.

17 ---

18 (WHEREUPON, WITNESS COMPLIES.)

19 ---

20 THE WITNESS: Okay.

21 BY ATTORNEY SHARMA:

22 Q. This is - is it fair to say this is  
23 essentially saying that you expect to perform at an  
24 acceptable level as a TA, TF?

25 Correct?

1           A.       That is correct.

2                    And I would also highlight the fact that  
3 there are multiple opportunities for the students to  
4 meet with the instructors.  If any personal problem  
5 is going on, we do see this from time to time.

6                    So this is not a situation where the  
7 student has no recourse.  If there is a significant  
8 issue that arises, there are multiple pathways that  
9 the student can explain the failure to meet a  
10 particular requirement.

11           Q.       Okay.

12                    And in fact, you give that opportunity by  
13 issuing warning letters?

14           A.       Yes.

15           Q.       And it's only after the third incident,  
16 according to this policy, that the TA position will  
17 be withdrawn?

18                    That gives the student the opportunity to  
19 correct, -

20           A.       That is correct.

21           Q.       - prior to the TA position being  
22 withdrawn?

23           A.       Yes.

24           Q.       And then turning to page 43.  This, as I  
25 understand it, is an acknowledgment of safety rules

1 and coursework requirement.

2 This is for somebody who's appointed to  
3 teach a lab.

4 Is that correct?

5 A. That is correct.

6 Q. And these are sort of the safety  
7 guidelines that that person is expected to adhere  
8 to.

9 Is that correct?

10 A. That's correct.

11 Q. And includes, on page 44, the third  
12 bullet down, that as a condition of the person's  
13 employment that they're obligated to attend all  
14 regular TA meetings.

15 Is that correct?

16 A. That's correct.

17 Q. And that's so that they can be up-to-date  
18 on current safety concerns?

19 A. That's correct.

20 Q. And then just turning to R-106.

21 A. Yes.

22 Q. This is a publication that if I were to  
23 go - if I were to look at either your CV or your  
24 website, I would see this on the list of  
25 publications.

1 Correct?

2 A. That's correct.

3 Q. And in fact, on your website I see a  
4 number of listed publications that you, as a  
5 co-author, would provide to assistants.

6 Is that correct?

7 A. Yes.

8 Q. And you said that this was funded by two  
9 separate grants. Were those grants that you had  
10 applied for and secured?

11 A. One was a grant where I was sole  
12 applicant. Another was a grant where there were  
13 several professors at the University of Pittsburgh  
14 who were working together on a - on a much larger  
15 project.

16 Q. Okay.

17 ATTORNEY SHARMA: I have no further  
18 questions.

19 HEARING EXAMINER: And Union 246 is  
20 admitted.

21 ---

22 (Whereupon, Petitioner's Exhibit 246, Graduate  
23 Student Handbook, was admitted.)

24 ---

25 HEARING EXAMINER: Redirect.

1                    ATTORNEY DANTE:    Can I move for 106  
2 and 107?

3                    ATTORNEY SHARMA:    No objection.

4                    HEARING EXAMINER:    They're admitted.

5                    ---

6                    (Whereupon, Respondent's Exhibit 106, Published  
7 Paper, was admitted.)

8                    (Whereupon, Respondent's Exhibit 107,  
9 Dissertation Pages, was admitted.)

10                    ---

11                    ATTORNEY DANTE:    Thanks.

12                    Just two minutes.

13                    HEARING EXAMINER:    Off the record.

14                    ---

15                    (WHEREUPON, A SHORT BREAK WAS TAKEN.)

16                    ---

17                    HEARING EXAMINER:    Okay?    Redirect?

18                    ---

19                    REDIRECT EXAMINATION

20                    ---

21                    BY ATTORNEY DANTE:

22                    Q.        Dr. Floreancig, you were asked on Cross  
23 Examination about the teaching credit and whether it  
24 counts toward the 12 credits for the Master's. Does  
25 the teaching credits count towards the 72 credits



1 required to get a PhD?

2 A. Yes, it does.

3 Q. And if you could turn to page 16 of  
4 U-246, which is the handbook?

5 A. Yes.

6 Q. There was - you were asked some questions  
7 about this particular page on Cross Examination.

8 Could you read the sentence that had -  
9 that starts with in addition and followed by the  
10 underlying portion? In the middle of the third  
11 paragraph.

12 A. Okay.

13 In addition, teaching assistantships, TA  
14 and teaching fellowships, TF, will not be awarded to  
15 those who fail to satisfy the minimum progress  
16 requirement or fail to maintain a cumulative 3.00  
17 GPA.

18 Q. Okay.

19 And if you could turn to page 36 as well.

20 A. Yes.

21 Q. You were asked some questions about the  
22 first italicized paragraph under section B, that's  
23 entitled Duties of Teaching Assistants and Teaching  
24 Fellows.

25 A. Yes.

1 Q. And in that last sentence that references  
2 unexcused absences, does it also state that  
3 unexcused absences will be reflected in the grade  
4 for the teaching assignments?

5 A. Yes, it does.

6 Q. And if we - if you turn to page 37 and  
7 you look to the paragraph right before section C, is  
8 there - is there a requirement for - is there where  
9 the requirement exists for students to register for  
10 a class, to satisfy the teaching requirement?

11 A. Yes, that is it.

12 Q. And if someone is satisfying the academic  
13 teaching requirement registered in this class, all  
14 of these requirements or duties listed on page 36  
15 through 38 apply to those students as well.

16 Correct?

17 A. Yes.

18 Q. And that's - those are students who are  
19 getting academic credit while on a TA, satisfying  
20 the teaching requirement for the program?

21 A. Yes.

22 ATTORNEY DANTE: That's all I have.

23 HEARING EXAMINER: Limited Recross.

24 ---

25 RE CROSS EXAMINATION

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BY ATTORNEY SHARMA:

Q. Doctor, can you be a TA, TF without being enrolled in 2970?

A. I do not believe that's the case. Although I can't say that with certainty.

Q. You don't believe that they could be?

A. I do not believe that you could be a TA without enrolling in that course.

Q. Okay.

And that's one credit.

Right?

A. Yes.

ATTORNEY SHARMA: I have no further questions.

HEARING EXAMINER: Okay.

ATTORNEY DANTE: Okay.

HEARING EXAMINER: All right.

Sir, you can step down. And off the record. I'll see everyone tomorrow.

\* \* \* \* \*

HEARING CONCLUDED AT 2:10 P.M.

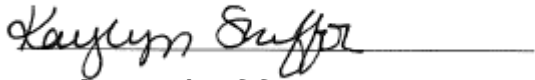
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CERTIFICATE

I hereby certify that the foregoing proceedings,  
hearing held before Judge Helmerich, was reported by  
me on 10-30-18 and that I, Kaylyn Shaffer, read this  
transcript, and that I attest that this transcript is  
a true and accurate record of the proceeding.

Dated the 30th day of November, 2018



Kaylyn Shaffer,

Court Reporter