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# Supplemental materials for "Fostering Collaboration by Leading Communities of Practice"

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# Appendix A

## Faculty and Graduate Student Interview Protocol

1. What are the main research questions you are pursuing?
2. Tell me about your research and the methodological approaches you use.
3. What types of qualitative data do you create/collect?
  - a. Format
  - b. Degree of sensitivity of the data
4. How does your research process intersect with the library?
  - a. How do you interact with your subject librarian? With other librarians or library staff?
  - b. Do you make use of research guides or other library expertise?

### *Expertise / Support / Assistance*

5. How did you gain research expertise in qualitative data research?

### *Needs*

6. What are your greatest needs as a qualitative researcher?

### *Proposal stage*

7. What is your experience creating data management plans? (Can I see a typical one)?

### *Project setup*

8. What type of literature review is needed in the beginning?  
Do you seek assistance from the library?
9. Does your IRB allow for data sharing at the conclusion of your project?

### *Data management*

10. Do you have a “standard” data management protocol?
11. Where do you store different types of data?  
Probe: Is secure storage an issue for you? Do you back up data?

### *Tools*

12. Do you use any data analysis tools?
  - a. Which ones?

- b. How did you learn to use this tool?
- 13. At what point do you begin thinking about data analysis?
- 14. Who or where do you go to when you have questions about this tool?

*Project conclusion*

- 15. Is qualitative data sharing common in your discipline? (Probe if they share if not stated)
  - 16. What barriers are there to sharing data?
  - 17. Have you reused qualitative data generated by others? Would you talk about that experience?
  - 18. Is there anything we didn't ask you that you'd like to talk about?
- 

## Appendix B

### Librarian Interview Protocol

- 1. Tell us about your role in the library.
- 2. How often do you interact with faculty and students engaging in qualitative research?
- 3. At which stage in the research life cycle do you most often interact with qualitative researchers?

Probe depending on what they say, e.g. proposal stage, data analysis (look above to see the areas in which we asked students and researchers)—intuitive probe responses

Have you noticed any differences between faculty and student expectations about what resources the library offers?

- 4. What are the typical questions from faculty? Students?
- 5. How familiar are you with different approaches to qualitative research? Could you talk about different approaches you've witnessed or experienced?
- 6. How familiar are you with different qualitative analysis software applications?
  - a. Have you personally used any of these analysis tools?
  - b. Which ones does your library support? (either instructionally or actually provide access to the software)
  - c. Why did you select these tools to support?

- d. Who or where do you go to when you have questions about this tool?
7. Could you talk about your familiarity with other services offered by your library to support qualitative research (data deposit, tools, databases)?
- What about data management?
  - What about literature review?
8. How about other services on campus?
9. Do you refer qualitative researchers to other librarians? Which librarians?
10. What things impede you in offering qualitative data analysis support?
11. Is there anything we didn't ask you that you'd like to talk about?
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## Appendix C

### Qualitative Researcher Survey

In this survey, we are seeking to understand the challenges and needs encountered by qualitative researchers across the University of Michigan in a variety of fields and disciplines. The survey is part of a study funded by the Institute of Museum and Library Services (IMLS) conducted by the U-M Library's Library Assessment for Research and Scholarship Lab. The study is exempt from ongoing IRB review (HUM00141251). We estimate this survey will take 6 to 12 minutes. Your responses will be confidential; we plan on sharing our anonymized data in our institutional repository, Deep Blue. Thank you for helping us with our study! Please select "Next" below to consent and continue to the survey.

Q1 Have you ever used qualitative methods in your research?

- Yes
- No

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*Display This Question:*

*If Have you ever used qualitative methods in your research? = No*

You've indicated that you do not use qualitative research methods in your work. If that's the case, we thank you for your time and you may exit by clicking "Next." If you have used qualitative methods and would like to return to the survey, click "Previous."

*Skip To: End of Survey If You've indicated that you do not use qualitative research methods in your work. If that's the case... Is Displayed*

Q2 How many of your research projects have involved qualitative inquiry?

- 1–2
- 3–5
- 6–10
- more than 10

Q3 When doing qualitative research, how do you primarily work?

- In a team or research group
- Individually
- Individually, but I consult with colleagues who do qualitative work as needed
- Both in a team and individually

Q4 If there were opportunities to meet with other qualitative researchers or bounce ideas off them, how likely would you be to participate?

	Extremely unlikely	Somewhat unlikely	Neither likely nor unlikely	Somewhat likely	Extremely likely
In your department, school or college	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Across the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
External to the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

In the following sections, please base your answers on your qualitative research projects.

Q5 Have you ever sought funding for your qualitative research?

- Yes
- No

*Display This Question:*

*If Have you ever sought funding for your qualitative research? = Yes*

Q5a How easy was it for you to find funding opportunities for qualitative research?

- Extremely easy
- Somewhat easy
- Neither easy nor difficult
- Somewhat difficult
- Extremely difficult

*Display This Question:*

*If Have you ever sought funding for your qualitative research? = Yes*

Q5b Have you ever received funding for qualitative research?

- Yes
- No

Q6 What type of help do you need when you are seeking funding for qualitative research?  
(Select all that apply)

- Help identifying appropriate funders

- Consultation with a grants librarian
- Consultation with the central development office
- Consultation with your research grants administrators
- Learning how to search grants databases
- Writing the grant proposal
- Navigating the university's process for getting funding
- Have not needed funding
- Other (please specify)

Q7 Which of the following areas are challenging when designing your qualitative research study?

- Setting project timeline
- Accessing specific populations and sites
- Creating samples
- Designing questionnaires or protocols
- Piloting questionnaires or protocols
- Finding help with qualitative methods
- Funding
- IRB process help
- Finding research collaborators
- Identifying previous research on a topic or population
- Other (please specify) \_\_\_\_\_

*If Which of the following areas are challenging when designing your qualitative research study?  
 q://QID11/SelectedChoicesCount Is Greater Than or Equal to 1  
 Carry Forward Selected Choices - Entered Text from "Which of the following areas are  
 challenging when designing your qualitative research study?"*

Q7a How challenging are the areas you selected (when designing your qualitative research study)?

	Slightly	Moderately	Very	Extremely
Setting project timelines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accessing specific populations and sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Creating samples	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Designing questionnaires or protocol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Piloting questionnaires or protocols	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Finding help with qualitative methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Funding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IRB process help	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Finding research collaborators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identifying previous research on a topic or population	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q8 Which of the following areas are challenging when collecting qualitative data?

- Data management (e.g., file naming, organization, version control)
- Storing data securely
- Transcription
- Access to research sites, communities, or populations
- Recording equipment (for face-to-face or remote interviews)
- Interview spaces
- Other (please specify) \_\_\_\_\_

*Display This Question:*

*If Which of the following areas are challenging when collecting qualitative data?  
q://QID15/SelectedChoicesCount Is Greater Than or Equal to 1  
Carry Forward Selected Choices - Entered Text from "Which of the following areas are  
challenging when collecting qualitative data?"*

Q8a How challenging are the areas you selected (when collecting qualitative data)?

	Slightly	Moderately	Very	Extremely
Data management (e.g., file naming, organization, version control)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storing data securely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transcription	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to research sites, communities, or populations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recording equipment (for face-to-face or remote interviews)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interview spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q9 Do you collect qualitative data that you consider sensitive?

- Yes
- No

Q10 Which of the following areas do you find challenging when analyzing qualitative data?

- Access to data analysis tools
- Developing codebooks
- Coding transcripts (including hand-coding and machine-based coding)

- Help with data analysis tools
- Other (please specify)

*If Which of the following areas do you find challenging when analyzing qualitative data?  
 q://QID16/SelectedChoicesCount Is Greater Than or Equal to 1  
 Carry Forward Selected Choices - Entered Text from "Which of the following areas do you find  
 challenging when analyzing qualitative data?"*

Q10a How challenging are the areas you selected (when analyzing qualitative data)?

	Slightly	Moderately	Very	Extremely
Access to data analysis tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Developing codebooks	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>
Coding transcripts (including hand-coding and machine-based coding)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Help with data analysis tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q11 What tools do you currently use for qualitative data analysis? (Select all that apply)

- NVivo
- Atlas.ti
- Transana
- Dedoose
- R
- Scrivener
- Word processing software
- Spreadsheet software
- Paper and pencil
- Other (please specify) \_\_\_\_\_

In this section, we will ask you about data sharing—that is, placing your transcripts, code books, or any other data you collect in a repository (such as Deep Blue or ICPSR [Inter-university Consortium for Political and Social Research]) or providing that data to another person.

Q12 What type(s) of data have you shared?

- Qualitative data only
- Quantitative data only
- Both qualitative and quantitative data
- None

*Display This Question:*

*If What type(s) of data have you shared? = <u>Qualitative</u> data only*

*Or What type(s) of data have you shared? = Both qualitative and quantitative*

Q13 With whom have you shared qualitative data? (Select all that apply)

- Directly with other researcher(s) you know
- Directly with other researcher(s) you do not know, but who contacted you
- With a data repository or service



Display This Question:

If With whom have you shared qualitative data? (Select all that apply) = With a data repository or service

Q13a Please list any repository or service in which you have placed qualitative data:

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Display This Question:

If What type(s) of data have you shared? = Qualitative data only

Or What type(s) of data have you shared? = Both

Q14 How many times have you shared qualitative data?

- 1–2 times
- 3–5 times
- more than 5 times

Display This Question:

If What type(s) of data have you shared? = Qualitative data only

Or What type(s) of data have you shared? = Both qualitative and quantitative

Q15 Which of the following areas are challenging when sharing qualitative data?

- Sensitivity of the data
- Difficulty in documenting the data
- Limitations due to the way the data was originally collected
- Difficulty in designing data sharing into a research project
- Unsure how to prepare the data for sharing
- Lack of informed consent from the participants
- Data format incompatibility
- Unsure of the relevance of the data to other researchers
- Lack of trust in data repositories
- Other (please specify) \_\_\_\_\_

Display This Question:

If Which of the following areas are challenging when sharing qualitative data?

q://QID22/SelectedChoicesCount Is Greater Than or Equal to 1

Carry Forward Selected Choices - Entered Text from "Which of the following areas are challenging when sharing qualitative data?"

Q15a How challenging are the areas you selected (when sharing qualitative data)?

	Slightly	Moderately	Very	Extremely
Sensitivity of the data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in documenting the data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limitations due to the way the data was originally collected	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Difficulty in designing data sharing into a research project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Unsure how to prepare the data for sharing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of informed consent from the participant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data format incompatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Unsure of the relevance of the data to other researchers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of trust in data repositories	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*Display This Question:*

*If What type(s) of data have you shared? = <u>Quantitative</u> data only*

*Or What type(s) of data have you shared*

Q16 What are the top obstacles that prevented you from sharing your qualitative data? (Select up to 3)

- Sensitivity of the data
- Difficulty in documenting the data
- Limitations due to the way the data was originally collected
- Difficulty in designing data sharing into the research project
- Time required to prepare data for sharing
- Unsure how to prepare the data for sharing
- Lack of informed consent from the participants
- Unsure of the relevance of the data to other researchers
- Lack of trust in data repositories
- Other (please specify) \_\_\_\_\_

Q18 Please select any of the following motivations for sharing qualitative data in your field/discipline:

- Promotion
- Tenure
- Greater research impact
- Data citation
- Journal publication mandate
- Funder expectations
- Move research in the field/discipline forward
- Peer review of data
- Other (please specify) \_\_\_\_\_

In this section, we will ask you about data reuse—that is, your use of data produced and/or collected by other researchers which you repurposed for your own research.

Q19 Have you ever reused qualitative data produced by another researcher?

- Yes

- No

*Display This Question:*

*If Have you ever reused qualitative*

Q20 Where did you get the qualitative data?

- From another researcher you know
- From another researcher you did not previously know
- From a repository or service
- Other (please specify)

*If Where did you get the qualitative data? = From a repository or service*

Q20a From recent memory, please list any repositories or services from which you have received qualitative data.

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*Display This Question:*

*If Have you ever reused qualitative data produced by another researcher? = Yes*

Q21 Which of the following areas are challenging when reusing qualitative data?

- Sensitivity of the data
- Difficulty in finding data relevant for your research questions
- Research design is unclear
- Intention of the original researcher is not stated
- Limitations due to the way the data was originally collected
- Gaps in the documentation of the study
- Unclear information about participant consent for reuse
- Language of the data
- Data format incompatibility
- Other (please specify) \_\_\_\_\_

*Display This Question:*

*If Which of the following areas are challenging when reusing qualitative data?*

*q://QID30/SelectedChoicesCount Is Greater Than or Equal to 1*

*Carry Forward Selected Choices - Entered Text from "Which of the following areas are challenging when reusing qualitative data?"*

Q21a How challenging are the areas you selected (when reusing qualitative data)?

	Slightly	Moderately	Very	Extremely
Sensitivity of the data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in finding data relevant for your research questions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Research design is unclear	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Intention of the original researcher is not stated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Limitations due to the way the data was originally collected	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gaps in the documentation of the study	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Unclear information about participant consent for reuse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Language of the data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data format incompatibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q22 Which of the following areas are challenging when presenting your qualitative research?

- Access to software for creating the presentation
- Software support
- Finding appropriate venues for the presentation
- Finding funding to attend conferences
- Getting papers or proposals accepted at conferences
- Other (please specify) \_\_\_\_\_

*Display This Question:*

*If Which of the following areas are challenging when presenting your qualitative research?*

*q://QID44/SelectedChoicesCount Is Greater Than or Equal to 1*

*Carry Forward Selected Choices - Entered Text from "Which of the following areas are challenging when presenting your qualitative research?"*

Q22a How challenging are the areas you selected (when presenting your qualitative research)?

	Slightly	Moderately	Very	Extremely
Access to software for creating the presentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Finding appropriate venues for the presentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Finding funding to attend conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Getting papers or proposals accepted at conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q23 Which of the following areas are challenging when publishing your qualitative research?

- Identifying appropriate venues to publish qualitative research
- Getting qualitative papers or proposals accepted

- Finding editorial assistance
- Citation management, citation styles, or formatting
- Other (please specify) \_\_\_\_\_

*Display This Question:*

*If Which of the following areas are challenging when publishing your qualitative research?  
 q://QID32/SelectedChoicesCount Is Greater Than or Equal to 1  
 Carry Forward Selected Choices - Entered Text from "Which of the following areas are  
 challenging when publishing your qualitative research?"*

Q23a How challenging are the areas you selected (when publishing your qualitative research)?

	Slightly	Moderately	Very	Extremely
Identifying appropriate venues to publish qualitative research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Getting qualitative papers or proposals accepted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Finding editorial assistance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Citation management, citation styles, or formatting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q24 Which of the following University of Michigan Library resources/services have you used for your qualitative research?

- Identifying potential research funders
- Designing research projects
- Online databases
- Print or online collections
- Analyzing data
- Data planning and management
- Visualizing data
- Translating multilingual data
- Sharing data
- Searching for data to reuse
- Consulting with a librarian
- Workshop offerings
- Library Qualitative Research Guide
- Other (please specify) \_\_\_\_\_

*Display This Question:*

*If Which of the following University of Michigan Library resources/services have you used  
 for your q... q://QID33/SelectedChoicesCount Is Greater Than or Equal to 1  
 Carry Forward Selected Choices - Entered Text from "Which of the following University of  
 Michigan Library resources/services have you used for*

Q24b How satisfied were you with the resources/services you selected?

	Extremely dissatisfied	Somewhat dissatisfied	Neither satisfied nor	Somewhat satisfied	Extremely satisfied

	dissatisfied				
Identifying potential research funders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Designing research projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online databases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Print or online collections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyzing data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data planning and management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visualizing data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Translating multilingual data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sharing data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Searching for data to reuse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consulting with a librarian	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Workshop offering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Library qualitative research guide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q26 In what areas could the library better meet the qualitative research needs of you or your team? (Select up to 3)

- Funding (identifying grant sources)
- Research design
- Literature review
- Data collection
- Data analysis (e.g., tool support)
- Data visualization

- Data planning and management
- Data sharing
- Data reuse
- Referrals to other resources on campus and beyond
- Other (please specify) \_\_\_\_\_

*Display This Question:*

*If In what areas could the library better meet the qualitative research needs of you or your team? (Select up to 3) q://QID35/SelectedChoicesCount Is Greater Than or Equal to 1*

Q27 Is there anything more you would like to tell us about library services?

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Q28 How inclined are you to undertake another qualitative research project in the future?

- Extremely likely
- Somewhat likely
- Neither likely nor unlikely
- Somewhat unlikely
- Extremely unlikely

Q29 Other than the library, where else do you get help with your qualitative research projects?

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Q31 What is the discipline/field of the highest degree you have earned or are earning?