Supplemental Material S1. Survey.

This survey seeks to gain information about your doctoral preparation in research, teaching, and professional development, as well as your experiences in those areas in relation to your career following graduation. Our goal is to provide information to doctoral programs that can help address the current and expected shortage of doctoral-level professionals in academic and research careers by improving strategies to recruit, prepare, and graduate doctoral students and inspire them to take academic and research positions. Your completion of this survey will help us in that effort.

Research Preparation In Your Doctoral Program

1. For the activities below, please indicate how helpful each was in your preparation to conduct research. Check N/A if the activity was not experienced. Then indicate whether you think the activity would be helpful to include in a doctoral program, whether you experienced it or not.

Activity	How helpful was this activity in your research preparation?				Should this activity be included in a doctoral program?	
	Very helpful	**Moderately helpful**	**Not helpful**	**NA**	**Yes**	**No**
Taking a doctoral level course in research design						
Taking a course in grant writing						
Receiving hands on research mentoring						
Working on research project/s of primary mentor						
Working on research project/s of other faculty/mentors						
Being exposed to all phases of grant writing						
Developing an IRB proposal						
Designing a research study						
Discussing ethical issues that might arise in research						
Implementing a research study						
Collecting original data						
Co-authoring a manuscript submitted for publication						

Serving as first author of manuscript submitted for publication					
Receiving feedback on writing					
Submitting grant proposal with faculty member or another student					
Submitting grant proposal as Principal Investigator					
Co-presenting research findings at a national conference					
Presenting research findings at a national conference as the lead or sole presenter					

2. By the time you entered your doctoral program, had you identified a clear research interest?
   Yes _____ No _____

3. By the time you entered your doctoral program, did you have an identified mentor?
   Yes _____ No _____

4. How many research mentors did you have during your program?

   _____ 0   _____ 1   _____ 2 _____3 _____more than 3

5. How many different research projects did you have an opportunity to work on during your doctoral program (including your dissertation)?

   _____ 1   _____ 2 _____3 _____more than 3

6. How many research projects were **required** as part of your program (including your dissertation)?

   _____ 1   _____ 2 _____3 _____more than 3

7. Overall, how well did your doctoral program prepare you to conduct research?
   Very well _____   Moderately well _____   Poorly _____   Not at all _____

8. What other research activities would you have liked to have experienced (or experienced more often) in your doctoral program?

_____

Teaching Preparation in Your Doctoral Program

1. For the activities below, please indicate how helpful each was in your preparation to teach. Check "Not applicable (N/A)" if the activity was not experienced. Then indicate whether you think the activity would be helpful to include in a doctoral program, whether you experienced it or not.

Activity	How helpful was this activity in your teaching preparation?				Should this activity be included in a doctoral program?	
	Very Helpful	**Moderately Helpful**	**Not Helpful**	**N/A**	**Yes**	**No**
Serving as a teaching assistant						
Co-teaching a course with faculty member or another doctoral student						
Independently teaching at least one course						
Developing a syllabus for a course						
Developing a written teaching philosophy						
Taking a full course on teaching						
Faculty observing your teaching with feedback						
Other doctoral students observing your teaching with feedback						
Having your teaching videotaped with feedback						
Using resources from your campus' center for teaching and learning						

2. Did you receive mentoring in your teaching experiences?

Yes ____   No _____

3. How would you rate the mentoring in teaching you received during your doctoral program?:
Excellent ___   Good ____   Fair ____   Poor _____

4. Overall, how well did your doctoral program prepare you for teaching?
   Very well _____ Moderately well _____ Poorly _____ Not at all _____

5. What other components of teaching preparation would you have liked to experience (or experienced more often) in your doctoral program?
   _____

Other Job Readiness Preparation During Your Doctoral Program

We define *other job readiness preparation* as those additional activities focused on readying you for your future position (e.g., preparing your vita, rehearsing job talks, discussion of startup lab needs).

1. For the activities below, please indicate how helpful each was in your job readiness preparation. Check N/A if the activity was not experienced. Then indicate whether you think the activity would be helpful to include in a doctoral program whether you experienced it or not.

Activity	How helpful was this activity in your job readiness preparation?				Should this activity be included in a doctoral program?	
	Very helpful	Moderately helpful	Not helpful	NA	Yes	No
Completing a review of a journal manuscript for publication						
Receiving feedback on your curriculum vita						
Discussions of the pros/cons of varied career paths (e.g., academic, research, clinical, policy)						
Discussions of the pros and cons of doing a post-doctoral fellowship						
Discussions about job interviewing						
Discussions about setting up a research lab						
Opportunities to practice job talk/s						
Discussions on negotiating strategies for obtaining first job						
Discussions about prioritizing your responsibilities during your first job						
Discussions about furthering your research career (e.g., grant writing, publications, journal reviews)						

2. Overall, how well did your doctoral program prepare you for an academic career?
   Very well _____ Moderately well _____ Poorly _____ Not at all _____

3. Other activities of job readiness preparation that were helpful OR you would like to have experienced (or experienced more often) in your program:

   _____

Overall Preparation for and Challenges in Doctoral Study

1. How influential was each of the following factors in your decision to complete a PhD in CSD? (very influential, moderately influential, not at all influential, N/A if activity was not experienced)

Factor	How influential was this factor in your decision to pursue a Ph.D.?			
	Very influential	Moderately influential	Not influential	NA
Completion of a thesis				
Non-thesis research experiences as undergraduate or master's student				
Research mentorship in undergraduate or master's program				
Specialized research track for students in master's degree program				
Encouragement by faculty to consider an advanced degree				
Influence of family or friends				
Knowledge of doctoral shortage in CSD				
Potential to work with a specific research mentor				
Availability of funding				
Desired research career in CSD				
Desired teaching career in CSD				
Desired clinical degree in CSD				
Desired administrative career in CSD				

2. What other factors influenced your decision to complete a PhD in CSD?

   _____

3. On entry into your doctoral program, how well did your perceptions of what doctoral studies would entail match what actually took place in your program?

   Matched very well _____   Matched moderately well _____   Matched poorly_____

   Did not match at all _____

   (Skip logic within Qualtrics will skip to #6 if "well matched" selected)

4. Which of the following factors played a role in the mismatch between your perceptions and what took place in your program? (check all that apply)

_____ Rigor of program was greater than expected
_____ Rigor of program was less than expected
_____ Not prepared for the teaching demands
_____ Did not anticipate the large time commitment
_____ Not provided sufficient opportunities for mentored research
_____ Not provided sufficient opportunities for mentored teaching
_____ Was not aware of the expectations for research productivity
_____ Was not familiar with the sequence of steps in completing a PhD
_____ Did not understand the importance of a good mentor-mentee match

5. What other perceptions did you have upon entry that were not "well matched" with what happened in your program?

_____

6. Did you complete graduate clinical training in SLP or Audiology before or during your PhD program?

Yes _____   No _____

7. If a clinical doctorate in SLP had been available when you were considering the PhD program, would you have preferred to pursue that degree instead?

Yes _____   No _____

8. How important was each of the following in helping you complete your doctoral program? (very important, moderately important, not at all important , N/A if not experienced)

Factor	How important was this factor in helping you complete your Ph.D. program?			
	Very helpful	Moderately helpful	Not helpful	NA
Supportive peers				
Supportive mentor/s				
Supportive family members				
Sense of community				
Financial support				
Departmental or university activities (symposia, writing groups)				
Professional development resources (resume writing, interviewing preparation)				
Dissertation writing group				

9. What other factors were important in helping you complete your doctoral program?

   _____

10. How much of a challenge was each of the following in completing your doctoral program?

Activity	How challenging was this factor in completing your Ph.D. program?			
	Very challenging	Moderately challenging	Not challenging	NA
Lack of "hands on" mentoring				
Unclear guidelines of what was expected				
Your own limited writing skills				
Your own limited skills in statistics and/or research design				
Lack of support from peer group				
Frustration with lack of progress				
Lack of support from faculty				
Lack of financial support				

What other challenges did you face in completing your doctoral program?

   _____

Current Career Position:

1. What type of career position do you currently hold (check all that apply)?

   _____ Academic Research
   _____ Academic Teaching
   _____ Academic Clinical Supervision
   _____ Academic Administrative
   _____ Non-Academic Research
   _____ Non-Academic Clinical Supervision
   _____ Non-Academic Clinical Practice
   _____ Non-Academic Administrative
   _____ Postdoctoral Fellowship
   _____ Industry
   _____ Policy
   _____ Project Coordinator for Research Study

   Other type of current career position: _____

2. Is your current position in the field of communication sciences and disorders?

    Yes ___   No____

    If no, in what field is your current position? _____

3. What were the primary reasons you chose your current job (check all that apply)?

    ____ Job security
    ____ Salary and/or benefits
    ____ Prestige of the program
    ____ Flexibility
    ____ Family-friendliness
    ____ Collegiality of co-workers
    ____ Specific colleague in my focus area
    ____ Availability of particular study population
    ____ Less pressure than other job types
    ____ Location
    ____ Spouse's position
    ____ Focus on research
    ____ Focus on teaching
    ____ Focus on clinical services or supervision
    ____ Focus on administration/policy

    Other reasons you chose your current job: _____

4. What aspects of your current position do you find most appealing?

    _____

5. If you currently work for a university or college, how would you characterize your
    department/program in terms of the proportional focus on teaching and research responsibilities?
    (Please **choose only one**) (skip logic to only provide to those who chose academic in Q1)

    _____ Primary focus is on research, teaching is also important
    _____ Equal focus on research and teaching
    _____ Primary focus on teaching, research is important
    _____ Primary focus on teaching, research focus is limited

6. Regardless of your **current position**, how prepared do you feel to accomplish the following roles
    and responsibilities?

Role or Responsibility	How well prepared for this role do you feel?			
	Well prepared	Moderately prepared	Not prepared	NA
Mentoring students				
Writing manuscripts				
Teaching				
Setting up a lab				
Conducting research				
Clinical supervision				
Committee work				
Grant writing				
Balancing multiple responsibilities				

7. Are there any other areas of your doctoral program that you would like to provide information about to help guide the future of doctoral education?

   _____

Demographic Information:

1. What is your gender?: _____ Female _____ Male
2. Are you of Hispanic or Latino origin? _____Yes _____No
3. What is your race? (check all that apply)

       _____ White
       _____ African-American/Black
       _____ Asian
       _____ American Indian/Alaska Native
       _____ Pacific Islander/Hawaiian Native
       _____ Other, please specify: _____

4. From which doctoral program did you graduate? (list provided) **This information will ONLY be used to identify your programs' region and level of research intensity and will not be connected to you or your responses in any way. Only aggregate data will be used in any reports or published articles and no participant's responses will be connected to a particular university.**

   Other doctoral program: _____

5. In what year was your PhD granted? _____

6. How many years did it take to complete your doctoral program?
   ____ Less than 4 years
   ____ 4 years
   ____ 5 years
   ____ 6 years
   ____ more than 6 years

7. What was the specialization of your PhD?
   ____ Audiology
   ____ Hearing Science
   ____ Language Science
   ____ Speech-Language Pathology
   ____ Speech Science
   ____ Other (please specify)_____

8. Were you encouraged by faculty to complete a postdoctoral fellowship? ____ Yes ____ No

9. Did you complete a postdoctoral fellowship? _____ Yes _____ No

10. Since **beginning** your PhD program, how many research presentations have you made at conferences? National _____ State _____

11. Since **beginning** your PhD program, how many research papers have you submitted for publication that you authored or coauthored? _____

    How many were accepted (including those accepted for publication but not yet published)? _____

12. Since **beginning** your PhD program, how many external grants (outside of the university) have you submitted as Principal Investigator or Co-PI? _____ How many were funded? _____

13. Since **beginning** your PhD program, how many internal grants (inside the university) have you submitted as Principal Investigator or Co-PI? _____ How many were funded? _____

Thank you for your participation in this survey. The results will help guide the preparation of future doctoral students in Communication Sciences and Disorders.