

## Mary M. Flaherty, Ph.D.

Assistant Professor

Department of Speech and Hearing Science

University of Illinois at Urbana-Champaign

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### Education

<b>Degree</b>	<b>Awarding Institution</b>	<b>Date</b>	<b>Specialty</b>
Postdoctoral	Boys Town National Research Hospital	01/2016	Human Auditory Development
Ph.D.	SUNY Buffalo	02/2016	Cognitive Psychology
M.A.	SUNY Buffalo	05/2013	Psychology
B.Sc.	University of Pittsburgh-Johnstown	05/2007	Psychology

### Professional Experience and Employment History

2018 -	Assistant professor, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign, Champaign, IL
2016-2018	Postdoctoral fellow, Boys Town National Research Hospital, Omaha NE
2012-2015	Graduate Student Lecturer, Department of Psychology, SUNY Buffalo, Buffalo, NY
2013-2015	Supervisor of Comparative Bioacoustics Laboratory, SUNY Buffalo, Buffalo, NY
2014-2015	Adjunct Lecturer of Psychology, Trocaire College, Buffalo, NY
2008-2009	Data Administrator & Clinical Research Assistant, UPMC Magee Women's Hospital, Pittsburgh, PA

### Honors and Awards

2018	Mentored Research Travel Award funded by National Institutes on Deafness and Other Communication Disorders, American Auditory Society
2017	NIH Pediatric Loan Repayment Program funding by National Institutes on Deafness and Other Communication Disorders
2016	Postdoctoral Fellow Travel Award, Association for Research in Otolaryngology
2016	Research Mentoring-Pair Travel Award, American Speech-Language-Hearing Assoc.
2016	Excellence in Teaching Award, SUNY Buffalo
2015	Excellence in Teaching Award, SUNY Buffalo
2014	Graduate Student Excellence in Teaching Award, SUNY Buffalo

### Mentoring Experience

2017	Co-mentor of Audiology Student Trainee, Frequency Discrimination in Preschoolers and School-Age Children, Boys Town National Research Hospital
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- 2014 Undergraduate Psychology Association, Guest Speaker, “On Becoming a Graduate Student”, University at Buffalo
- 2013 Undergraduate Honors Project Mentor (Jacqueline White), Psychological Statistics, University at Buffalo
- 2013 Undergraduate Honors Project Mentor (Megan Rosen), Biology Honors, University at Buffalo
- 2013 Black Student Union's Annual Leadership Workshop, Mentor & Representative for Psychology Department, University at Buffalo

**Other Experience and Professional Memberships**

- 2018 Session Chair, Tools and Technology for Speech Research, 175<sup>th</sup> meeting of Acoustical Society of America, Minneapolis, MN
- 2018 Lessons for Success, Grant Writing and Professional Development Workshop, ASHA’s Research Mentoring Network,
- 2018 Acoustics School, Acoustical Society of America, Minneapolis, MN
- 2017 Ad hoc reviewer, Journal of Speech, Language and Hearing Research
- 2016 Professional Grant Development Workshop, Univ. of Nebraska, Omaha
- 2013-2017 Member of Association for Research in Otolaryngology
- 2011 Application Review Council Member, Mark Diamond Research Fund, SUNY Buffalo

**Bibliography**

**Refereed Articles**

- Rose, J., Flaherty, M., Browning, J., Leibold, L.J., Buss, E. (2018) Pure-tone frequency discrimination in preschoolers, young school-age children, and adults. *Journal of Speech, Language, and Hearing Research*, 1-6.
- Buss, E., Flaherty, M. M., & Leibold, L. J. (2017). Development of frequency discrimination at 250 Hz is similar for tone and /ba/ stimuli. *The Journal of the Acoustical Society of America*, 142(1), EL150-EL154.
- Flaherty, M., Dent, M. L., Sawusch, J. R. (2017). Experience with speech sounds is not necessary for cue trading by budgerigars (*Melopsittacus undulatus*). *PlosOne*, (12) 5, 1-20.
- Dent, M. L., Martin, A. K., Flaherty, M. M., Neilans, E. G. (2016). Cues for auditory stream segregation of birdsong in budgerigars and zebra finches: Effects of location, timing, amplitude, and frequency. *Journal of the Acoustical Society of America*, (139) 2, 674-683.
- Flaherty, M. and Sawusch, J. (2013) How robust are lexical effects on phonetic categorization? *POMA* 19, 060203.

Mullennix, J.W., Stern, S.E., Grounds, B., Kalas, R., Flaherty, M., Kowalok, S., May, E., & Tessmer, B. (2010) Earwitness memory: Distortions for voice pitch and speaking rate. *Applied Cognitive Psychology* (24) 4, 513-526.

### **In Press or Submitted Articles**

Flaherty, M. M., Buss, E., & Leibold, L.J. (2018) Developmental effects in children's ability to benefit from F0 differences between target and masker speech. *Ear and Hearing*, in press.

Browning, J., Buss, E., Flaherty, M., Leibold, L. J. (2018) An evaluation of integrated directionality and noise reduction hearing aid signal processing on masked speech recognition for children who are hard of hearing. *American Journal of Audiology*, under review.

### **Oral Presentations and/or Abstracts**

Flaherty, M., Leibold, L. J., Buss, E. (2018) Children's ability to benefit from fundamental frequency and vocal tract length differences during speech-in-speech recognition. Poster presented at 175th Meeting of the Acoustical Society of America, Minneapolis Minnesota, May 2018.

Browning, J., Flaherty, M. (2018) How can we improve children's understanding of speech in complex environments? Talk presented at Boys Town National Research Center, Smart Lunch 2018, Omaha, NE.

Flaherty, M., Browning, J., Buss, E., Leibold, L. J. (2018) Target/masker differences in F0: Effects of age and hearing loss. Poster presented at American Auditory Society Scientific and Technology Meeting, Scottsdale, AZ, March 2018.

Rose, J., Flaherty, M., Browning, J., Leibold, L.J., Buss, E. (2018) Pure-tone frequency discrimination in preschoolers, school-age children, and adults. Poster presented at American Auditory Society Scientific and Technology Meeting, Scottsdale, AZ, March 2018.

Flaherty, M., Dent, M. L., Sawusch, J.R. (2017) Experience with speech sounds does not influence cue trading by budgerigars. Podium presentation at the 4<sup>th</sup> Annual International Symposium on Acoustic Communication by Animals, Omaha, NE, July 2017.

Browning, J., Flaherty, M., Leibold, L. J., Buss, E. (2017) Integrated directionality and noise reduction: Effects on children's masked thresholds. Poster presented at American Auditory Society Scientific and Technology Meeting, Scottsdale, AZ, March 2017.

- Flaherty, M., Leibold, L. J., Buss, E. (2016) Effect of temporal asynchrony on children's detection performance in a random-frequency, multi-tonal masking task. Poster presented at the International Congress on Acoustics Annual Meeting of the Acoustical Society of America, Honolulu, HI, November 2016.
- Flaherty, M. (2016) Benefit of F0 separation between target and masker for children with and without hearing loss. Talk presented at Boys Town National Research Hospital, Auditory Jam Conference, Omaha, NE, June 2016.
- Flaherty, M., Sawusch, J., Dent, M. (2015) Speech experience and cue trading in budgerigars. (*Melopsittacus undulatus*). Poster presented at the International Congress on Acoustics Annual Meeting of the Acoustical Society of America, Pittsburgh, PA, May 2015.
- Carter, D., Tronolone, A., Cheruvil, A., Asif, K., Flaherty, M. & Dent, M. (2015). The role of speech experience on cue trading in parakeets. Poster presented at the SUNY Undergraduate Research Conference at The College at Brockport, SUNY. April 2015.
- Rosen, M., Flaherty, M., and Dent, M. (2014) The role of experience in the use of speech cues by budgerigars. Poster presented at the Biology Honors Symposium, SUNY Buffalo, Buffalo, NY. May 2014.
- Dent, M. Neilans, E., Flaherty, M., Martin, A. (2013) Auditory scene analysis in budgerigars (*Melopsittacus undulatus*) and zebra finches (*Taeniopygia guttata*). Poster presented at the International Congress on Acoustics Annual Meeting of the Acoustical Society of America, Montreal, Quebec, June 2013.
- Flaherty, M. and Sawusch, J. (2013) How robust are lexical effects on phonetic categorization? Poster presented at the International Congress on Acoustics Annual Meeting of the Acoustical Society of America, Montreal, Quebec, June 2013.
- Flaherty, M. (2012) Auditory scene analysis in budgerigars and zebra finches. Poster presented at the Annual Behavior and Brain Sciences Symposium, SUNY Buffalo, Buffalo, NY. June 2012.
- Flaherty, M., Neilans, E., Garcia, K., Dent, M. (2012). Auditory stream segregation of Conspecific and heterospecific sounds in budgerigars (*Melopsittacus undulatus*) and zebra finches (*Taeniopygia Guttata*). Poster presented at the Annual Research Meeting of the Association for Research in Otolaryngology, San Diego, CA. February 2012.
- Flaherty, M. and Sawusch, J. (2010) Phoneme perception and the structure of lexical neighborhoods. Poster presented at the Annual Psychonomic Society Meeting, Seattle, Washington, November 2010.

- Stern, S., Mullennix, J., Flaherty, M., Grounds, B., Hutchison, E., & Steinhauser, E. (2008). Stereotypes of physically and speech disabled persons as detected with partially structured attitude measures. Paper presented at the International Congress of Psychology Conference, Berlin, July 2008.
- Stern, S. E., Mullennix, J. W., Steinhauser, E. F., Horvath, D., & Flaherty, M. (2007). Partially structured attitude measures used to examine stereotypes of the disabled. Presented at the Society for Personality and Social Psychology meeting, Memphis, TN.
- Flaherty, M., Hutchison, E., & Kowalok, S. (2007). Partially structured attitude measure of stereotypes of disabled? Is it valid? Poster presented at the 10<sup>th</sup> Annual Laurel Highlands Undergraduate Psychology Conference, Johnstown, PA, April 2007.
- Stern, S. E., Mullennix, J. W., Steinhauser, E. F., Horvath, D., & Flaherty, M. (2007). Partially structured attitude measures used to examine stereotypes of the disabled. Paper presented at the Society for Personality and Social Psychology Annual Meeting, Memphis, TN, January 2007.
- Steinhauser, E., Flaherty, M., Cole, T., Horvath, D., & Davis, A. (2006). A pilot study: Systematic perceptions of stereotype bias on the disabled community. Poster presented at the 9<sup>th</sup> Annual Laurel Highlands Undergraduate Psychology Conference, Johnstown, PA, April, 2006.

### **Teaching Record**

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| Fall 2018   | Instructor, Quantitative Reasoning, University of Illinois at Urbana-Champaign<br>26 graduate students   |
| Fall 2015   | Instructor, Psychological Statistics, SUNY Buffalo, Buffalo NY<br>240 undergraduate students   |
| Fall 2015   | Instructor, Introduction to Psychology, Trocaire College, Buffalo NY<br>3 separate sections: Section 1 (15 students), Section 2 (21 students), Section 3 (25 students) |
| Spring 2015 | Instructor, Introduction to Psychology, Trocaire College, Buffalo NY<br>2 separate sections: Section 1 (10 students) & Section 2 (6 students)                          |
| Fall 2014   | Instructor, Psychological Statistics, SUNY Buffalo, Buffalo NY<br>220 undergraduate students   |
| Summer 2014 | Instructor, Psychological Statistics, SUNY Buffalo, Buffalo NY<br>40 undergraduate students  |

Fall 2013 Instructor, Psychological Statistics, SUNY Buffalo, Buffalo NY  
230 undergraduate students

Summer 2013 Instructor, Psychological Statistics, SUNY Buffalo, Buffalo NY  
70 undergraduate students

Fall 2012 Instructor, Psychological Statistics, SUNY Buffalo, Buffalo NY  
140 undergraduate students

Summer 2012 Instructor, Psychological Statistics, SUNY Buffalo, Buffalo NY  
45 undergraduate students

## **Grants**

### **Completed Research Support**

The NIH/NIDCD is funding “The benefit derived from acoustic voice differences for speech-in-speech recognition in school-age children” (January 2018 – January 2019), an F32 (DC016771-01) providing \$56,694 across the funding period.  
Role: Principal Investigator

The NIH-NIDCD funded ***Research in Human Communication and its Disorders***. This grant (July 2015-June 2020), a T32 (DC000012-37) provides institutional training support for three postdoctoral fellows. (PI: Doug Keefe)  
Role: Postdoctoral Fellow

The Mark Diamond Research Fund funded “The role of experience in the use of speech cues by budgerigars” (April 2014 – March 2015), a dissertation grant (SP-14-04) providing \$2000 across the funding period.  
Role: Principal Investigator