

## **Educational History**

Ph.D. 2012, University of Iowa, Iowa City, IA, Speech and Hearing Sciences

Dissertation title: The role of anticipation and an adaptive monitoring system in stuttering: A theoretical and experimental investigation. Dissertation Advisor: Patricia Zebrowski, Ph.D., CCC-SLP, Professor

M.A. 2004, University of Iowa, Iowa City, IA, Speech-language pathology and audiology

Thesis title: Classical conditioning and the effects of autonomic arousal on fundamental frequency and temporal acoustic measures in adults who stutter. Thesis Advisor: Patricia Zebrowski, Ph.D., CCC-SLP, Professor

B.A. 2002, University of Iowa, Iowa City, IA, Speech and Hearing Sciences

## **Employment History**

Assistant Professor, 2013-present, University of New Mexico, Department of Speech and Hearing Sciences, Albuquerque, New Mexico

Adjunct Researcher, 2013-present, MIND Research Network, Albuquerque, NM

Senior Database Administrator and Consultant, 2013-present, University of Iowa, Department of Communication Sciences and Disorders, Iowa City, Iowa

Adjunct Instructor, 2013, University of Iowa, Department of Communication Sciences and Disorders, Iowa City, Iowa

Application Programmer/Analyst, 2011-2013, University of Iowa, Department of Communication Sciences and Disorders, Iowa City, Iowa

Adjunct Instructor, 2011, Augustana College, Department of Communication Sciences and Disorders, Rock Island, Illinois

Research Assistant III, 2011, University of Iowa, Department of Communication Sciences and Disorders, Iowa City, Iowa

Research Assistant II, 2005-2011, University of Iowa, Department of Communication Sciences and Disorders, Iowa City, Iowa

Student Research Assistant, 2001-2005, University of Iowa, Department of Communication Sciences and Disorders, Iowa City, Iowa

Applications Developer III, 2000-2001, McLeod USA Telecommunications, Cedar Rapids, Iowa

Software Developer II, 1999-2000, NCS/Pearsons , Iowa City, Iowa

Applications Developer II, 1997-1999, McLeod USA Telecommunications, Cedar Rapids, Iowa

## **Professional Recognition and Honors**

Malcolm Fraser Foundation, Doctoral Studies Fellowship, 2009-2011, Malcom Fraser Foundation

Research Mentoring-Pair Travel Award, 2009, American Speech-Language and Hearing Association

Students Preparing for Academic and Research Careers (SPARC) award, 2004, American Speech-Language and Hearing Association

Graduate Fellow, 2003-2005, University of Iowa, Department of Communication Sciences and Disorders

Esther Ogdahl Award, 2002, University of Iowa, Department of Communication Sciences and Disorders

Summer Research Opportunity Program Scholar, 2001, University of Iowa

## **Articles Published in Refereed Journals**

**Arenas, R. M.** (2017). Conceptualizing and investigating the contextual variability of stuttering: The speech and monitoring interaction (SAMI) framework. *Speech, Language and Hearing*, 20(1), 15–28. <https://doi.org/10.1080/2050571X.2016.1221877>

**Arenas, R. M.**, & Zebrowski, P. M. (2017). The relationship between stuttering anticipation and verbal response time in adults who stutter. *Speech, Language and Hearing*, 20(1), 1–14. <https://doi.org/10.1080/2050571X.2016.1201346>

Buhr, T., Zebrowski, P., Moon, J., Tumanova, V., **Arenas, R.** & Loucks, T. (2016). Coordination of opening and closing jaw movements of young children who stutter. *Speech Pathology and Therapy*, 1(115). <http://dx.doi.org/10.4172/2472-5005.1000115>

Harrison, M., Page, T. A., Oleson, J., Spratford, M., Unflat Berry, L., Peterson, B., Welhaven, A., **Arenas, R.M.**, & Moeller, M. P. (2016). Factors Affecting Early Services for Children Who Are Hard of Hearing. *Language Speech and Hearing Services in Schools*, 47(1), 16-30. [http://doi.org/10.1044/2015\\_LSHSS-14-0078](http://doi.org/10.1044/2015_LSHSS-14-0078)

Tomblin, J. B., Walker, E. A., McCreery, R. W., **Arenas, RM.**, Harrison, M., & Moeller, M. P. (2015). Outcomes of Children with Hearing Loss: Data Collection and Methods. *Ear and Hearing*, 36, 14S–23S. <http://doi.org/10.1097/AUD.0000000000000212>

Tumanova, V., Zebrowski, P. M., Goodman, S. S., & **Arenas, RM.** (2015). Motor practice effects and sensorimotor integration in adults who stutter: Evidence from visuomotor tracking performance. *Journal of Fluency Disorders*, 45, 52–72. <http://dx.doi.org/10.1016/j.jfludis.2015.04.001>

Bentler, R., Walker, E., McCreery, R., **Arenas, RM.**, & Roush, P. (2014). Nonlinear frequency compression in hearing aids: Impact on speech and language development. *Ear and Hearing*, 35:4, 143-152. <http://dx.doi.org/10.1097/AUD.0000000000000030>

McGregor, K., Licandro, U., **Arenas, R.**, Eden, N., Stiles, D., Bean, A. & Walker, E. (2013). Why words are hard for adults with developmental language impairment. *Journal of Speech, Language and Hearing Research*, 56, 1845-1856. [http://dx.doi.org/10.1044/1092-4388\(2013\)12-0233](http://dx.doi.org/10.1044/1092-4388(2013)12-0233)

**Arenas, R.** & Zebrowski, Z. (2013). The effects of autonomic arousal on speech production in adults who stutter: A preliminary study. *Speech, Language and Hearing*, 16:3, 176-185. <http://dx.doi.org/10.1179/2050572813Y.0000000011>

McGregor, K., Rost, G., **Arenas, R.**, Farris-Trimble, A. & Stiles, D. (2013). Children with autism can use gaze in support of word recognition and learning. *Journal of Child Psychology and Psychiatry*, 54:7, 745-753. <http://dx.doi.org/10.1111/jcpp.12073>

**Arenas, RM.**, Zebrowski, P., & Moon, J. (2012). Phonetically governed voicing onset and offset behavior in preschool children who stutter. *Journal of Fluency Disorders*, 37, 179-187. <http://dx.doi.org/10.1016/j.jfludis.2012.04.001>

Zebrowski, P. & **Arenas, RM.** (2011). The “Iowa Way” revisited. *Journal of Fluency Disorders*, 36, 144-157. <http://dx.doi.org/10.1016/j.jfludis.2010.08.001>

### **Invited or Refereed Abstracts and/or Presentations at Professional Meetings**

Arenas, R., & Buhr, A. (2016, November). *The Dynamic Social Self as a Way to Understand Change in Stuttering*. One hour seminar presented at the American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA.

Arenas, R., Walker, E. & Oleson, J. (2016, November). *The Incidence and Prevalence of Stuttering in Children Who Are Hard of Hearing*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA.

Neel, A., Arenas, R., & Misuzawa, C. (2016, March). *Changes in Disfluent Speech with Adaptation in Stuttering*. Poster presented at the Conference on Motor Speech, Newport Beach, CA.

Arenas, R. (2016, March). *Investigating the use of brain stimulation to improve fluency in people who stutter*. Poster presented at the BBHI Neuroscience Day, Albuquerque, NM.

Arenas, R. (2015, November). *Conceptualizing & Investigating the Contextual Variability of Stuttering: The SAMI Framework*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Denver, CO.

Arenas, R., & Zebrowski, P. (2014, November). *Effects of the anticipation of stuttering on speech production*. Technical talk presented at the American Speech-Language-Hearing Association Annual Convention, Orlando, FL

McGregor, K, Licandro, Arenas, R., Eden, N., Stiles, D., Bean, A. & Walker, E. (2011, May). *The Integrity of Memory Processes that Support Word Learning in Students with Language Learning Disabilities*, Poster session presented at Symposium for Research in Child Language Disorders, Madison, WI

Tumanova, V., Zebrowski, P., Goodman, S., Uc, E. & Arenas, R. (2010, November). *Procedural learning abilities of adults who stutter and adults with Parkinson's disease: Implications from visuomotor tracking performance*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA

Tumanova, V., Zebrowski, P., Arenas, R. & Goodman, S. (2009, November). *Visuomotor tracking abilities of adults who stutter and adults with Parkinson's disease*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, New Orleans, LA

Arenas, R.M. (2009, November). *Classical Conditioning and the Effects of Autonomic Arousal on Fundamental Frequency and Temporal Acoustic Measures in Adults Who Stutter*. Poster session presented at the American Speech-Language-Hearing Association Annual Convention, New Orleans, LA.

Arenas, R.M. & Zebrowski, P.M. (2007, November). *Phonetically-Governed Voicing Onset and Offset in Children Who Stutter*. Poster session presented at the American Speech-Language-Hearing Association Annual Convention, Boston, MA.

### **Contributed (un-refereed) Abstracts and/or Oral Presentations at Professional Meetings**

Khalsa, H. & Arenas, R. (2015, Summer). Website increases stuttering awareness. *Stuttering Foundation of America Newsletter*. Retrieved from <http://www.stutteringhelp.org/sites/default/files/Summer2015Newsletter.pdf>

Arenas, R.M. (2014, October). *Effects of the anticipation of stuttering on speech production*. Poster session presented at the New Mexico Speech-Language-Hearing Association, Albuquerque, NM.

Arenas, R.M. (2013, October). *Speech and Monitoring Interaction (SAMI) Framework of Stuttering*. Poster session presented at the New Mexico Speech-Language-Hearing Association, Albuquerque, NM.

Darling, M., & Arenas, R. (2012, February). SPARCing Careers in Research and Academia, *The ASHA Leader*. Retrieved from <http://leader.pubs.asha.org/article.aspx?articleid=2280133>

Arenas, R.M. (2010, Fall). Feedforward strategy in children: Investigating the use of a feedforward motor strategy in the speech of children who stutter. *Stuttering Foundation of America Newsletter*. Retrieved from [http://www.stutteringhelp.org/sites/default/files/Migrate/fall\\_newsletter\\_2010\\_web.pdf](http://www.stutteringhelp.org/sites/default/files/Migrate/fall_newsletter_2010_web.pdf)

Arenas, R.M. (2007). Free software for DAF. *Advance healthcare network for Speech & Hearing*, 17:45, 15. Retrieved from <http://speech-language-pathology-audiology.advanceweb.com/Article/Free-Software-for-DAF.aspx>

Arenas, R.M. (2007). Add Altered Auditory Feedback to Your Toolbox... For Free. *International Stuttering Awareness Day Online Conference*. Retrieved from <http://www.mnsu.edu/comdis/isad10/papers/arenas10.html>

## **Research Funding**

Project Title: The effects of transcranial direct current stimulation on speech production

Principal Investigator: Richard Arenas, Ph.D.

Funding organization: University of New Mexico – Research Allocation Grant

Start date: November, 2014

End date: December, 2015

Amount: \$9,500 funded

Project Title: The use of transcranial direct current stimulation to improve the effectiveness of stuttering therapy

Principal Investigator: Richard Arenas, Ph.D.

Funding organization: Malcolm Fraser Foundation

Start date: March, 2015

End date: December, 2017

Amount: \$15,000 funded

Project Title: Neural correlates of nonword repetition in adults who stutter

Principal Investigator: Richard Arenas, Ph.D.

Funding organization: National Institute of Health (Loan Repayment Program)

Start date: July, 2016

End date: June, 2018

Amount: \$26,426

## **Teaching**

### **Masters Advisement**

Committee member:

Chloe Mizusawa; May, 2016; Changes in disfluent behavior during adaptation and stuttering

### **Undergraduate Student Mentoring**

Elizabeth Torres, Fall 2015-Spring 2016, Bachelor of Arts, Students Preparing for Academic and Research Careers (SPARC) award, American Speech-Language and Hearing Association

### **Classroom Teaching**

2017; Spring; Anatomy and Physiology of Human Communication; SHS 310; 68 students

2017; Spring; Introduction to Communication Disorders; SHS 302; 52 students

2016; Fall; Reading and Writing in Research; SHS 506; 27 students

2016; Fall; Fluency Disorders; SHS 538; 19 students

2016; Spring; Anatomy and Physiology of Human Communication; SHS 310; 74 students

2016; Spring; Introduction to Communication Disorders; SHS 302; 62 students

2015; Fall; Reading and Writing in Research; SHS 506; 25 students

2015; Fall; Fluency Disorders; SHS 538; 17 students

2015; Summer; Anatomy and Physiology of Human Communication; SHS 310; 7 students

2014; Fall; Motor Speech Disorders; SHS 531; 28 students

2014; Fall; Fluency Disorders; SHS 538; 11 students

2014; Spring; Anatomy and Physiology of Human Communication; SHS 310; 61 students

2014; Summer; Anatomy and Physiology of Human Communication; SHS 310; 22 students

2013; Fall; Motor Speech Disorders; SHS 531; 21 students

### **Curriculum Development or Teaching Administrative Positions**

*Fluency Disorders*, SHS 538. Developed as a new course; first offered Fall 2014.

## **Service**

### **Government and Public Agencies**

Reviewer, Board of Regents Support Fund Research and Development Program, FY2014-2015,  
State of Louisiana 2014

### **Editorial Service**

Ad-hoc Reviewer, Journal of Speech-Language Hearing Research 2012 -  
Ad-hoc Reviewer, Speech, Language and Hearing 2013 –  
Ad-hoc Reviewer, Journal of Communication Disorders 2016 –  
Ad-hoc Reviewer, Journal of Motor Behavior 2016 -

### **Departmental Service**

Member, Assistant Professor Search Committee 2016  
Member of the PhD proposal committee 2015-  
Departmental web master 2014- 2016  
Member, Assistant Professor Search Committee 2014  
Member, Audiology Faculty Search Committee 2014  
Departmental library liaison 2013- 2014

### **Clinical Service**

Director, Summer Fluency Program 2015