

# **Yu-kyong Choe, Ph.D., CCC-SLP**

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## **EDUCATION**

Arizona State University

Ph.D., Speech and Hearing Science, August 2008

Dissertation title: Individual Differences in Understanding Speech

M.S., Communication Disorders, August 2003

Thesis title: Treatment Effect of Independent Computer Practice on Naming in the Case of Chronic Non-fluent Aphasic Individuals

Yonsei University, Seoul, Korea

M.A., English, August 1993

B.A., English, February 1991

## **PROFESSIONAL EXPERIENCE**

2014 – Present Associate Professor, Department of Communication Disorders, University of Massachusetts Amherst

2008 – 2014 Assistant Professor, Department of Communication Disorders, University of Massachusetts Amherst

2008 Speech-Language Pathologist, Chandler Regional Hospital & Mercy Gilbert Medical Center, AZ

2003 – 2008 Graduate Teaching and Research Associate, Department of Speech and Hearing Science, Arizona State University

2003 – 2006 Speech-Language Pathology Clinical Fellow

- Arizona State University Speech and Hearing Clinic
- Muscular Dystrophy Association Clinic at St. Joseph's Hospital, Phoenix, AZ
- Neuromuscular Clinic, Scottsdale, AZ

2001 – 2003 Graduate Research Assistant, Department of Speech and Hearing Science, Arizona State University

1993 – 2000 Instructor, Korean Language Institute, Yonsei University, Seoul, Korea

1991 – 1993 Graduate Teaching Assistant, Department of English, Yonsei University, Seoul, Korea

## **CERTIFICATION**

2006 – Present Certified (Certificate of Clinical Competence, Speech-Language Pathology), American Speech-Language-Hearing Association

2008 – Present Licensed Speech-Language Pathologist, Massachusetts

2003 – 2009 Licensed Speech-Language Pathologist, Arizona

## **PROFESSIONAL MEMBERSHIP**

2010 – Present American Heart Association

2003 – Present American Speech-Language-Hearing Association

## **GRANTS**

**Choe, Y.** (Principal Investigator). *Interdisciplinary Stroke Rehabilitation Delivered by a Humanoid Robot*, National Clinical Research Program – American Heart Association (12CRP9010007), \$109,252, 1/1/2012 – 12/31/2014

**Choe, Y.** (Principal Investigator). *Interdisciplinary Stroke Rehabilitation Delivered by a Humanoid Robot*, Faculty Research Enhancement Award – School of Public Health and Health Sciences, University of Massachusetts Amherst, \$10,000, 1/18/2011 – 12/9/2011

**Choe, Y.** (Principal Investigator). *Effect of Interdisciplinary Stroke Rehabilitation Delivered by a Humanoid Robot: Functional Recovery, Quality of Life, and Caregiver Burden*, Family Research Scholars Program – Center for Research on Families, University of Massachusetts Amherst, \$8,000, 9/7/2010 – 5/13/2011

**Choe, Y.** (Principal Investigator). *Effect of Computerized Aphasia Treatment on Verbal Expression, Quality of Life and Caregiver Burden*, Faculty Research Grant – University of Massachusetts Amherst, \$24,900, 6/1/2009 – 5/31/2011

## **PEER-REVIEWED PUBLICATIONS**

(\* denotes student author)

### **Journal Articles**

**Choe, Y.,** Foster, T., Asselin, A.\*, LeVander, M.\*, & Baird, J. (In Press). Cognitive-linguistic effort in multidisciplinary stroke rehabilitation: decreasing vs. increasing cues for word retrieval. *Neuropsychological Rehabilitation*.

**Choe, Y.,** Jung, H.\*, Baird, J.\*, & Grupen, R.A. (2013). Multidisciplinary stroke rehabilitation delivered by a humanoid robot: Interaction between speech and physical therapies. *Aphasiology*, 27 (3), 252-270.

**Choe, Y.,** Liss, J.M., Azuma, T., & Mathy, P. (2012). Evidence of cue use and performance differences in deciphering dysarthric speech. *Journal of the Acoustical Society of America*, 131 (2), EL112-EL118.

**Choe, Y.,** & Stanton, K.\* (2011). The effect of visual cues provided by computerized aphasia treatment. *Aphasiology*, 25 (9), 983-997.

**Choe, Y.,** Azuma, T., & Mathy, P. (2010). The use of computers and augmentative and alternative communication devices in independent naming practice: Three single-case studies. *Journal of Medical Speech-Language Pathology*, 18 (2), 12-26.

**Choe, Y.,** Azuma, T., Mathy, P., Liss, J.M., & Edgar, J. (2007). The effect of home computer practice on naming in individuals with non-fluent aphasia and verbal apraxia. *Journal of Medical Speech-Language Pathology*, 15 (4), 407-421.

### **ACM (Association for Computing Machinery) / IEEE (Institute of Electrical and Electronics Engineers) Proceedings**

Jung, H.\*, Freedman, R.G., Foster, T., **Choe, Y.,** Zilberstein, S., & Grupen, R.A. (2015). Learning therapy strategies from demonstration using latent dirichlet allocation. *Proceedings of the 20<sup>th</sup> International Conference on Intelligent User Interfaces*, 432-436. Acceptance rate: 23%.

Jung, H.\*, **Choe, Y.,** & Grupen, R. (2015). Extended virtual presence of therapists through home service robots. *Proceedings of the 10<sup>th</sup> Annual ACM/IEEE International Conference on Human-Robot Interaction*, 209-210. Acceptance rate: 25%.

Jung, H.\*, **Choe, Y.,** Baird, J.\*, & Grupen, R.A. (2012). A follow-up on humanoid-mediated stroke rehabilitation. *Proceedings of the 7<sup>th</sup> Annual ACM/IEEE International Conference on Human-Robot Interaction*, 159-160. Acceptance rate: 25%.

Jung, H.\*, Baird, J.\*, **Choe, Y.,** & Grupen, R.A. (2011). Upper-extremity physical therapy for stroke patients using a general purpose robot. *Proceedings of the 2011 IEEE International Symposium on Robot and Human Interactive Communication*, 270-275.

Jung, H.\*, Baird, J.\*, **Choe, Y.**, & Grupen, R.A. (2011). Upper-limb exercises for stroke patients through the direct engagement of an embodied agent. *Proceedings of the 6th ACM/IEEE International Conference on Human-Robot Interaction*, 157-158. Acceptance rate: 22%.

## **REFEREED PRESENTATIONS**

(\* denotes student author)

### **Conference Podium Presentations**

Hall, N.\*, Moylan, C.\*, Fader, E.\*, **Choe, Y.**, Andrianopoulos, M. (2013, November). *An examination of the effectiveness of an AAC training program for paraprofessionals*. American Speech-Language-Hearing Association Convention, Chicago, IL.

Mosall, A.\*, **Choe, Y.**, Cronin, M.\*, & Massery, M.\* (2012, November). *Effortful vs. errorless learning in computer-mediated home treatment*. American Speech-Language-Hearing Association Convention, Atlanta, GA.

Halsall, K.\*, Hall, N.\*, **Choe, Y.**, & Andrianopoulos, M. (2012, November). *School professionals' perceptions of preparedness for AAC intervention*. American Speech-Language-Hearing Association Convention, Atlanta, GA.

Jung, H.\*, Baird, J.\*, **Choe, Y.**, & Grupen, R.A. (2011, July). *Upper-extremity physical therapy for stroke patients using a general purpose robot*. IEEE International Symposium on Robot and Human Interactive Communication, Atlanta, GA.

**Choe, Y.**, Jung, H.\*, Baird, J.\*, & Grupen, R.A. (2011, May). *Interdisciplinary stroke rehabilitation delivered by a humanoid robot: simultaneous vs. alternating therapy schedules*. Clinical Aphasiology Conference, Ft. Lauderdale, FL.

**Choe, Y.**, Liss, J.M., Azuma, T., Lotto, A.J., & Mathy, P. (2010, March). *Individual differences in perceptual strategies*. Conference on Motor Speech, Savannah, GA.

Liss, J.M., Spitzer, S., Lansford, K., **Choe, Y.**, Kennerley, K., & Caviness, J. (2008, March). *Examining intelligibility deficits in ALS and Huntington's disease*. Conference on Motor Speech, Monterey, CA.

**Choe, Y.**, Mathy, P., & Azuma, T. (2005, November). *Computer and AAC device for independent naming practice by individuals with chronic non-fluent aphasia*. American Speech-Language-Hearing Association Convention, San Diego, CA.

### **Conference Poster Presentations**

Asselin, A.\*, **Choe, Y.**, Slade, J.\*, Foster, T., & Sommers, L. (2015, November). *Left- vs. right-hand movement during spoken naming tasks: A single-case report of computerized anomia treatment*. American Speech-Language-Hearing Association Convention, Denver, CO.

Jung, H.\*, Freedman, R.G., Foster, T., **Choe, Y.**, Zilberstein, S., & Grupen, R.A. (2015, March). *Learning therapy strategies from demonstration using latent dirichlet allocation*. International Conference on Intelligent User Interfaces, Atlanta, GA.

Jung, H.\*, **Choe, Y.**, & Grupen, R. (2015, March). *Extended virtual presence of therapists through home service robots*. ACM/IEEE International Conference on Human-Robot Interaction, Portland, OR.

**Choe, Y.**, Foster, T., Asselin, A.\*, LeVander, M.\*, & Baird, J. (2013, November). *Multidisciplinary stroke rehabilitation implemented through home computer: effortful vs. errorless learning of word retrieval*. American Speech-Language-Hearing Association Convention, Chicago, IL.

Jung, H.\*, Takahashi, T.\*, **Choe, Y.**, Baird, J., Foster, T., & Grupen, R. (2013, June). *Towards extended virtual presence of the therapist in stroke rehabilitation*. IEEE International Conference on Rehabilitation Robotics. Seattle, WA.

**Choe, Y.** (2012, May). *Visual reliance and visual advantage*. Clinical Aphasiology Conference, Lake Tahoe, CA.

Jung, H.\*, **Choe, Y.**, Baird, J.\*, & Grupen, R. A. (2012, March). *A follow-up on humanoid-mediated stroke rehabilitation*. Seventh ACM/IEEE International Conference on Human-Robot Interaction, Boston, MA.

- Jung, H.\*, Baird, J.\*, **Choe, Y.**, & Grupen, R.A. (2011, March). *Upper-limb exercises for stroke patients through the direct engagement of an embodied agent*. Sixth ACM/IEEE International Conference on Human-Robot Interaction, Lausanne, Switzerland.
- Hall, N.\*, Andrianopoulos, M., & **Choe, Y.** (2010, November). *Training graduate students to support individuals using AAC devices*. American Speech-Language-Hearing Association Convention, Philadelphia, PA.
- Hall, N.\*, Andrianopoulos, M., & **Choe, Y.** (2010, July). *Supporting students using augmentative and alternative communication in the schools*. American Speech-Language-Hearing Association Schools, Las Vegas, NV.
- Choe, Y.**, & Stanton, K.\* (2010, May). *The effect of visual cues provided by computerized aphasia treatment*. Clinical Aphasiology Conference, Isle of Palms, SC.
- Choe, Y.**, Azuma, T., Liss, J.M., Lotto, A.J., & Mathy, P. (2009, November). *Individual differences in understanding speech*. American Speech-Language-Hearing Association Convention, New Orleans, LA.
- Liss, J.M., White, L., Spitzer, S., Mattys, S., Lansford, K., **Choe, Y.**, Kennerley, K., & Caviness, J. (2007, June). *Quantifying rhythm deficits in the dysarthrias*. Meeting of the Acoustical Society of America, Salt Lake City, UT.
- Liss, J.M., White, L., Spitzer, S., Mattys, S., Lansford, K., **Choe, Y.**, Kennerley, K., & Caviness, J. (2007, April). *Speech rhythm deficits in dysarthria*. Speech Prosody in Atypical Populations Conference, University of Reading, UK.
- Ingram, K., **Choe, Y.**, Mathy, P., & Azuma, T. (2006, November). *Clients' utilization and satisfaction with intensive therapy in aphasia*. American Speech-Language-Hearing Association Convention, Miami, FL.
- Choe, Y.**, Mathy, P., Azuma, T., Liss, J.M., & Edgar, J. (2004, November). *Effect of computer-mediated training on naming performance by individuals with aphasia*. American Speech-Language-Hearing Association Convention, Philadelphia, PA.
- Choe, Y.**, Mathy, P., & Azuma, T. (2004, May). *Treatment effect of computer and AAC device practice on naming in aphasia*. Arizona Speech-Language-Hearing Association Convention, Tucson, AZ.

### **INVITED TALKS**

- Choe, Y.** (2015, May). *Utilizing current technology in stroke rehabilitation*. Research Seminar, School of Business, Macau University of Science and Technology, Macau, China.
- Choe, Y.** (2013, August). *Utilizing computers and a humanoid robot for stroke rehabilitation*. Eighth Annual Eleanor M. Saffran Cognitive Neuroscience Conference, Temple University, Philadelphia, PA.

### **AWARDS AND HONORS**

- 2014 Dean's Professional Development Award to Attend the Training in Grantsmanship for Rehabilitation Research, School of Public Health and Health Sciences at University of Massachusetts Amherst
- 2013 Fellowship to Attend the Lessons for Success Workshop, American Speech-Language-Hearing Association & National Institute on Deafness and Other Communication Disorders
- 2007 Teaching Excellence Award, Graduate and Professional Student Association, Arizona State University
- 2005 Student Research Travel Awards, American Speech-Language-Hearing Association
- 2004 Marilyn Miller Quintana Moline Scholarship, Department of Speech and Hearing Science, Arizona State University
- 2003 Clinical Achievement Award, Department of Speech and Hearing Science, Arizona State University
- 2003 Student Clinical Award, Arizona Speech-Language-Hearing Association
- 2002 Clinical Achievement Award, Department of Speech and Hearing Science, Arizona State University

University

## **TEACHING AND ADVISING**

### ***At University of Massachusetts Amherst***

#### **Classroom Teaching**

Comm-Dis 210: Introduction to Communication Disorders  
Comm-Dis 591C: Augmentative and Alternative Communication  
Comm-Dis 591D: Treatment Technology in Communication Disorders  
Comm-Dis 630: Research in Communication Disorders

#### **Graduate Student Mentoring**

Committee member: Nerissa Hall (Doctoral Dissertation, 2013)  
Erin Andrew (Master's Thesis, 2013)

#### **Undergraduate Student Mentoring**

Chair: Abigail Asselin (Honors Thesis, 2015)  
Megan Cronin (Honors Thesis, 2012)  
Paul Bottom (Honors Thesis, 2012)  
Committee member: Nicholas Pacella (Honors Thesis, 2014)  
Nicole DeBenedetto (Honors Thesis, 2013)  
Kaley Marston (Honors Thesis, 2011)  
Danielle Ducharme (Honors Project, 2010)  
Risa Fischman (Honors Thesis, 2009)  
Faculty Sponsor: Abigail Asselin (Honors Research Grant, 2015)  
Abigail Asselin (Honors Research Assistant Fellowship, 2014)  
Megan Cronin (Honors Research Assistant Fellowship, 2010- 2011)

### ***At Arizona State University***

#### **Classroom Teaching**

SHS 105: Introduction to Human Communication Disorders  
SHS 571: Augmentative Communication and Language

## **SERVICE**

### ***Committee Member***

- School of Public Health and Health Sciences Research Committee (2016-2018)
- School of Public Health and Health Sciences Bylaws Committee (2011-2013)
- Personnel Committee (2015-2017)
- Faculty Search Committee (2013-2014)
- Leadership Conference Committee (2011-2017)
- Curriculum Committee (2011-2012)
- Senior Award Committee (2008-2014)
- Graduate Admission Committee for the master's program in Speech Pathology (2008-2009)

### ***Other Service Activities***

- Faculty-Researcher Partner for Promoting the next Generation of Researchers (PROGENY) at American Speech-Language-Hearing Association Convention (2016)
- Host for prospective graduate students' visits to the department (2009-2016)
- Faculty liaison for graduate student interns (2008-2016)
- Presenter at the Health Careers Opportunity Program (HCOP) UMass Summer School (2011)
- Department representative for Massachusetts Society of Professors (2008-2011)
- Department liaison for Library (2008-2011)

### ***Grant Reviewer***

- Advancing Academic-Research Careers (AARC) Award, American Speech-Language-Hearing Association
- Students Preparing for Academic-Research Careers (SPARC) Award, American Speech-Language-Hearing Association
- Honors Research Grant

### ***Article Editor***

- *SAGE Open*

### ***Journal Reviewer***

- *American Journal of Speech-Language Pathology*
- *Aphasiology*
- *Augmentative and Alternative Communication*
- *Clinical Linguistics & Phonetics*

### ***Book Reviewer***

- Plante, E., & Beeson, P.M. (2008). *Communication and Communication Disorders (Third Edition)*. Boston: Allyn and Bacon.