

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

Department of Speech, Language, and Hearing Sciences
University of Massachusetts Amherst
358 North Pleasant Street
Amherst, MA 01003-9296
ychoe@umass.edu
413-545-4297

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 Speech, Language, and Hearing Sciences (formerly, 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

2003 – Present American Speech-Language-Hearing Association

2009 – Present American Speech-Language-Hearing Association Special Interest Group 12: Augmentative and Alternative Communication

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., Asselin, A.*, Foster, T., Waymouth, T.*, van Emmerik, R. (In Press). Congruent vs. incongruent tasks in interdisciplinary stroke rehabilitation: A single-case report. *Disability and Rehabilitation*.

Kim, S., & **Choe, Y.** (2023). Linking clinic with classroom in intensive focused preservice education on augmentative and alternative communication. *American Journal of Speech-Language Pathology*, 32(6), 2922-2939.

Choe, Y., Foster, T., Asselin, A.*, LeVander, M.*, & Baird, J. (2017). Cognitive-linguistic effort in multidisciplinary stroke rehabilitation: Decreasing vs. increasing cues for word retrieval. *Neuropsychological Rehabilitation*, 27(3), 318-348.

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 20th 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 10th 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 7th 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

- Park, H., Sung, J., Shin, S., **Choe, Y.**, Choi, D., Kim, S., & Seung, H. (2023, November). *Opportunities and challenges in first-generation immigrant clinicians and researchers*. American Speech-Language-Hearing Association, Boston, MA.
- Choe, Y.**, White, M., Asselin, A.*, Foster, T., Amado, A.*, Waymouth, T.*, & Van Emmerik, R. (2016, November). *Interdisciplinary stroke rehabilitation utilizing a touchscreen table: Symbolic vs. non-symbolic hand movements during naming tasks*. American Speech-Language-Hearing Association Convention, Philadelphia, PA.
- 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

- Kim, S., **Choe, Y.**, Jung, H., & McGurrian, R. (2023, November). *Adults with developmental disabilities and complex communication needs: Parents' perspectives and experiences*. American Speech-Language-Hearing Association Convention, Boston, MA.
- Sondhi, A.*, Colorusso, C.*, & **Choe, Y.** (2017, November). *The effect of concurrent hand movements on confrontation naming performance: An error analysis*. American Speech-Language-Hearing Association Convention, Los Angeles, CA.
- Pawlowicz, S.*, Anderson, C.*, **Choe, Y.**, & Gallagher, S.* (2016, November). *Whole word vs. phonics*

- approach for improving encoding ability for patient with aphasia.* American Speech-Language-Hearing Association Convention, Philadelphia, PA.
- Waymouth, T.*, Slade, J.*, Baylies, L.*, & **Choe, Y.** (2016, November). *Errorless vs. errorful learning in computer-mediated home treatment for post-stroke apraxia of speech and acalculia.* American Speech-Language-Hearing Association Convention, Philadelphia, PA.
- 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.

Conference Virtual Presentation

Gross, M., King, M., Ward, H., Castillo, A., Salisbury-Ferguson, J., **Choe, Y.**, & Soto, G. (2022, November). *Lessons learned from SLP professional practices with bilingual users of AAC*. American Speech-Language-Hearing Association Convention, New Orleans, LA.

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

- 2022-23 Mutual Mentoring Team Grant, Office of Faculty Development at University of Massachusetts Amherst
- 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

TEACHING AND ADVISING

At University of Massachusetts Amherst

Classroom Teaching

SLHS 100: Introduction to Speech, Language, and Hearing Sciences
SLHS 591D: Treatment Technology in Speech, Language, and Hearing
Comm-Dis 100/210: Introduction to Communication Disorders
Comm-Dis 591C: Augmentative and Alternative Communication
Comm-Dis 591D: Treatment Technology in Communication Disorders
Comm-Dis 570/630: Research in Communication Disorders

Graduate Student Mentoring

Committee member: Johanna Salisbury-Ferguson (Master's Thesis, 2022)
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: Brisget Dwyer (Honors Thesis, 2022)
Analise Castillo (Honors Thesis, 2022)
Christine Reggio (Honors Thesis, 2021)
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

- School of Public Health and Health Sciences Research Committee, 2016-2018
- School of Public Health and Health Sciences Bylaws Committee, 2011-2013
- Undergraduate Summer Research Internship Committee, 2023-2024
- Faculty Search Committee, 2013-2014; 2023-2024 (Chair)
- Senior Award Committee, 2008-2014; 2023-2024
- Professional Development Conference Committee, 2011-2023
- Personnel Committee, 2015-2017
- Curriculum Committee, 2011-2012
- 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, 2015-2017
- American Speech-Language-Hearing Association Continuing Education Administrator, 2016-2023
- Faculty liaison for graduate student interns, 2008-2017; 2019-2023
- 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
- The Center for Research on Families Dissertation Awards
- Honors Research Grant

Article Editor

- *SAGE Open*

Journal Reviewer

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

Textbook Reviewer

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

Peer Reviewer

- American Speech-Language-Hearing Association Professional Development Materials