

Michelle R. Kapolowicz
University of South Florida
College of Behavioral and Community Sciences
Department of Communication Sciences and Disorders
4202 E Fowler Ave, PCD 1017
Tampa, FL 33620
Office: PCD 4005
Email: kapolowicz@usf.edu
Phone: 1 (813) 974-6936

Education

- 2017 **Ph.D.**, Cognition and Neuroscience, The University of Texas at Dallas
Advisor: Peter F. Assmann, Ph.D.
- 2010 **M.S.**, Applied Cognition and Neuroscience, The University of Texas at Dallas
Advisor: L. T. "Tres" Thompson, Ph.D.
- 2008 **B.A.**, Philosophy (Major) Linguistics (Minor), The University of Texas at Arlington
**Magna Cum Laude*

Professional Appointments

- 2023 – **Assistant Professor**, Department of Communication Sciences and Disorders,
University of South Florida
- 2021 – 2023 **Assistant Specialist**, Department of Otolaryngology – Head and Neck Surgery,
University of California, Irvine
- 2018 – 2021 **Postdoctoral Fellow**, Center for Hearing Research, Department of
Otolaryngology – Head and Neck Surgery, University of California, Irvine
Advisor: Fan-Gang Zeng, Ph.D.
- 2018 **Lecturer**, School of Behavioral and Brain Sciences, The University of Texas at
Dallas

Continuing Education & Professional Development

- 2023 **Summer Grant Writing Workshops Program**
University of South Florida, Tampa
- 2020 **Auditory Brainstem Response - Introductory Workshop**
Center for Hearing Research, University of California, Irvine
- Hearing Sources - Course**
University of California, Irvine

NIH Grant Writing Basics - Pre-workshop

University of California, Irvine

NIH Grant Writing - Workshop

University of California, Irvine

Neurobiology of Language - Course

University of California, Irvine

2019 **Responsible Conduct of Research - Course**

University of California, Irvine

NIH K Award - Workshop

University of California, Irvine

NIH NRSA Grant Review Process - Workshop

University of California, Irvine

2018 **Auditory Neuroscience - Course**

University of California, Irvine

2012 **Plexon Neurophysiology - Workshop**

Plexon Inc., Dallas, TX

2010 **Rodent Surgery/Biomethodology - Workshops**

The University of Texas at Dallas, Richardson, TX

Peer-Reviewed Publications

MR Kopolowicz, DR Guest, V Montazeri, MM Baese-Berk, & PF Assmann (2022). Perception of spectrally-shifted foreign-accented speech. *Language and Speech*, 65, 418-443.

<https://doi.org/10.1177/00238309211029679>

V Montazeri, **MR Kopolowicz**, & PF Assmann (2021). Unsupervised repetition enables rapid perceptual learning. *Journal of the Acoustical Society of America*, 150, 3964-3975.

<https://doi.org/10.1121/10.0007062>

***Chosen for journal cover highlight**

C Armstrong & **MR Kopolowicz** (2021). Mixed amphetamine salts without a mood stabilizer for treating comorbid attention-deficit hyperactivity disorder and bipolar disorder: two case reports. *Military Medicine*, usab305. <https://doi.org/10.1093/milmed/usab305>

<https://doi.org/10.1093/milmed/usab305>

S-P Sun, **MR Kopolowicz**, M Richardson, R Metherate, F-G Zeng (2021). Task-dependent effects of nicotine treatment on auditory performance in young-adult and elderly human nonsmokers. *Scientific Reports*, 11, 13187. <https://doi.org/10.1038/s41598-021-92588-z>

MR Kopolowicz, V Montazeri, MM Baese-Berk, F-G Zeng, and PF Assmann (2020). Rapid adaptation to non-native speech is impaired in cochlear implant users. *Journal of the Acoustical Society of America: Express Letters*, 148, EL267. <https://doi.org/10.1121/10.0001941>

***Chosen for journal cover highlight**

C Armstrong & **MR Kapolowicz** (2020). A preliminary investigation on the effects of atenolol for treating symptoms of anxiety. *Military Medicine*, usaa170.

<https://doi.org/10.1093/milmed/usaa170>

MR Kapolowicz & LT Thompson (2020). Plasticity in limbic regions at early time points in experimental models of tinnitus. *Frontiers in Systems Neuroscience*, 13.

<https://doi.org/10.3389/fnsys.2019.00088>

***Awarded Editors' Pick 2021**

C Armstrong & **MR Kapolowicz** (2020). Interventional study of dextromethorphan abuse within the U.S. military community in Okinawa, Japan. *Military Medicine*, usaa049.

<https://doi.org/10.1093/milmed/usaa049>

CQ Pham, **MR Kapolowicz**, R Metherate, & F-G Zeng (2019). Nicotine enhances auditory processing in healthy and normal-hearing young adult nonsmokers. *Psychopharmacology*, 237, 833-840. <https://doi.org/10.1007/s00213-019-05421-x>

MR Kapolowicz, V Montazeri, & PF Assmann (2018). Perceiving foreign-accented speech with decreased spectral resolution in single- and multiple-talker conditions. *Journal of the Acoustical Society of America: Express Letters*, 143, EL99. <https://doi.org/10.1121/1.5023594>

***Chosen for journal cover highlight**

MR Kapolowicz & LT Thompson (2016). Acute high-intensity noise induces rapid Arc protein expression but fails to rapidly change GAD expression in amygdala and hippocampus of rats: Effects of treatment with D-cycloserine. *Hearing Research*, 342, 69-79.

<https://doi.org/10.1016/j.heares.2016.09.010>

MR Kapolowicz, V Montazeri, & PF Assmann (2016). The role of spectral resolution in foreign-accented speech perception. *Proceedings of Annual Conference of the International Speech Communication Association, INTERSPEECH 2016*, 3289-3293.

<http://dx.doi.org/10.21437/Interspeech.2016-1585>

Podium Presentations

Breaking down the barriers to understanding non-native speech

Hearing Loss Association of America, Mission Viejo, CA (June 13, 2023)

Auditory adaptation and attention in clinical populations

University of South Florida, Department of Communication Sciences and Disorders, Tampa, FL (January 30, 2023)

Auditory adaptation and attention in clinical populations

The University of Texas at Dallas, School of Behavioral and Brain Sciences, Dallas, TX (January 23, 2023)

Does home language maintenance affect heritage speakers' brainstem responses to speech?

Bilingualism Matters Conference, Edinburgh, UK (October 26, 2022)

A new treatment may reverse age-related auditory processing deficits
Hearing Loss Association of America, Mission Viejo, CA (October 12, 2021)

The tinnitus conundrum and the search for effective treatments
Hearing Well Club, Laguna Woods, CA (May 12, 2020)

Tinnitus treatment options: promising or not?
Orange County Tinnitus Support Group, Santa Ana, CA (November 16, 2019)

Perception of foreign-accented speech with limited spectral resolution
University of Southern California, Los Angeles, CA: SoCal Hearing Conference (September 2018)

The role of spectral information in perceiving foreign-accented speech
Center for Hearing Research, University of California, Irvine (April 13, 2018)

Children's voices, foreign accent, and the perception of speech in adverse conditions
Callier Center for Communication Disorders, The University of Texas at Dallas (September 29, 2017)

Poster Presentations

MR Kapolowicz, J Luo, G Li, K Arceo, J Lam, O Matuszewski, C Park, & F-G Zeng, *Effects of stimulus and electrode configurations on the frequency-following response to a 100-Hz tone*, Orlando, FL: Annual Midwinter Meeting of the Association for Research in Otolaryngology, February 2023.

MR Kapolowicz, V Montazeri, P Tran, MM Baese-Berk, FG Zeng, PF Assmann, *Foreign-accented speech perception by cochlear implant users: effects of talker variability*, Lake Tahoe, CA: 2019 Conference on Implantable Auditory Prostheses, July 2019.

MR Kapolowicz, P Tran, FG Zeng, *Foreign-accented speech perception by cochlear implant users and normal hearing listeners*, Irvine, CA: 14th Annual Center for Hearing Research Symposium: Variation from Hearing to Language, June 2019.

MR Kapolowicz, DR Guest, V Montazeri, MM Baese-Berk, & PF Assmann, *Perception of spectrally-shifted non-native speech*, Victoria, BC, Canada: 176th Meeting of the Acoustical Society of America, November 2018.

PF Assmann, **MR Kapolowicz**, & S Barreda, *Perceptual estimation of talker height from children's voices*, Victoria, BC, Canada: 176th Meeting of the Acoustical Society of America, November 2018.

MR Kapolowicz, PF Assmann, & FG Zeng, *Perception of spectrally-shifted foreign-accented speech*. Irvine, CA: Postdocs at the Forefront: 3rd Annual UCI Postdoctoral Scholar Research Symposium, September 2018

***Awarded 2nd Place**

MR Kapolowicz, DR Guest, V Montazeri, & PF Assmann, *Effect of frequency shifts on talker recognition in native- and foreign-accented speech*. New Orleans, LA: 174th Meeting of the Acoustical Society of America, December 2017.

DR Guest, **MR Kapolowicz**, V Montazeri, & PF Assmann, *Perception of voice gender in children's voices by cochlear implant users*. Boston, MA: 173rd Meeting of the Acoustical Society of America and the 8th Forum Acousticum, June 2017.

MR Kapolowicz, V Montazeri, JF Kuang, & PF Assmann, *Adaptation to foreign-accented speech with decreased spectral resolution*. Honolulu, HI: 5th Joint Meeting of The Acoustical Society of America and the Acoustical Society of Japan, December 2016.

DR Guest, **MR Kapolowicz**, S Hossain, V Montazeri, & PF Assmann, *Perception of voice gender in cochlear implant simulations of children's speech*. Salt Lake City, UT: 171st Meeting of the Acoustical Society of America, May 2016.

PF Assmann, **MR Kapolowicz**, DA Massey, S Barreda, & TM Nearey, *Links between the perception of speaker age and sex in children's voices*. Jacksonville, FL: 170th Meeting of the Acoustical Society of America, November 2015.

MR Kapolowicz, PF Assmann, & LT Thompson, *Tinnitus-inducing noise trauma and D-cycloserine alter Arc protein expression in amygdalo-hippocampal circuitry*. Baltimore, MD: Annual Midwinter Meeting of the Association for Research in Otolaryngology, February 2015.

MR Kapolowicz, JI Sedillo, MM Makkieh, & LT Thompson, *Tinnitus-inducing noise trauma and D-cycloserine alter amygdalo-hippocampal excitatory biomarkers*. Washington, DC: Annual Meeting of the Society for Neuroscience, November 2014.

Ji Sedillo, **MR Kapolowicz**, MM Makkieh, AR Møller, & LT Thompson, *Evidence for multisystem plasticity in non-classical auditory regions in early stages of tinnitus*. Washington, DC: Annual Meeting of the Society for Neuroscience, November 2014.

PF Assmann, **MR Kapolowicz**, DA Massey, S Barreda, & TM Nearey, *Perception of speaker sex in re-synthesized children's voices*. Providence, RI: 167th Meeting of the Acoustical Society of America, May 2014.

MR Kapolowicz, EH Kardosi, FK Alahmady, JI Sedillo, & LT Thompson, *The effect of noise trauma on Arc and GAD expression in a rat model of tinnitus*. San Diego, CA: Annual Meeting of the Society for Neuroscience, November 2013.

CE Barnes, **MR Kapolowicz**, & LT Thompson, *Using a gap detection startle paradigm to assess gender differences in the development of tinnitus*. Dallas, TX: UT Dallas Undergraduate Research Scholar Award Presentation, March 2013.

MR Kapolowicz & LT Thompson, *Amygdalo-hippocampal plasticity in a rat model of tinnitus: implications for aging and Alzheimer's disease*. Las Colinas, TX: Dallas Aging and Cognition Conference, January 2013.

MR Kapolowicz, SB Templet, S Yan, & LT Thompson, *Hippocampal place cells and interneurons in tinnitus: Time course of behavioral and single-unit plasticity*. New Orleans, LA: Annual Meeting of the Society for Neuroscience, October 2012.

MR Kapolowicz, SJ Lek, S Templet, R Rennaker, & LT Thompson, *Hippocampal place-cell plasticity and basolateral amygdala responses to auditory stimuli in a rat model of tinnitus*. Washington, DC: Annual Meeting of the Society for Neuroscience, November 2011.

Teaching

Courses Taught (Instructor of Record)

Auditory Anatomy and Physiology: SPA 5303. University of South Florida, Tampa, FL (Fall 2023).

Behavioral and Brain Sciences Honors Seminar: PSY/CLDP/CGS/NSC/SPAU 4375. The University of Texas at Dallas, Richardson, TX (Spring 2018).

Experimental Projects: PSY/CGS 3393. The University of Texas at Dallas, Richardson, TX (Spring 2018, Summer 2018).

Guest Lecturer

Neuropharmacology. The University of Texas at Dallas, Richardson, TX: Invited Guest Lecturer for NSC 3361: Introduction to Neuroscience (January 17, 2018).

Language, Ethology, Piaget and Development. The University of Texas at Dallas, Richardson, TX: Invited Guest Lecturer for PSY 3360/CGS 3325: Historical Perspectives on Psychology: Minds and Machines since 1600 (August 4, 2016).

Acute high-intensity noise induces rapid Arc/Arg 3.1 expression but fails to change GAD expression: region-specific effects of treatment with D-cycloserine. The University of Texas at Dallas, Richardson, TX: Invited Guest Lecturer for NSC 4357: Neurobiology of Learning and Memory (March 21, 2016).

Hearing and Language. The University of Texas at Dallas, Richardson, TX: Invited Guest Lecturer for NSC 3361: Behavioral Neuroscience (March 3, 2016)

Sleep. The University of Texas at Dallas, Richardson, TX: Invited Guest Lecturer for NSC 3361: Behavioral Neuroscience (November 13, 2014).

The effects of d-cycloserine on ARC and GAD expression in a rat model of tinnitus. Brookhaven College, Farmers Branch, TX: Invited Guest Lecturer for PSYC 2301: General Psychology (September 7, 2012).

Teaching Assistant

Introduction to Neuroscience (Fall 2016, Spring 2017, Fall 2017)

Behavioral and Brain Sciences Freshman Experience (Summer 2015)

Historical Perspectives: Minds and Machines (Summer 2014, Summer 2017)

Behavioral Neuroscience (Summer 2013, Fall 2014, Spring 2015, Fall 2015, Spring 2016)

Brain and Memory (Spring 2013)

Leadership & Services

Co-advisor for 1st year Doctorate of Audiology students, University of South Florida (Fall 2023 – ongoing)

International Medicine Education and Development Mentor, University of California, Irvine: mission of the organization is to increase medical care access and health education for underprivileged and under-served children (September 2022 – September 2023)

Invited guest speaker for the Hearing Loss Association of America, Mission Viejo Chapter
Title of Talk: Breaking down the barriers to understanding non-native speech (June 13, 2023)

Invited guest speaker for the Hearing Loss Association of America, Mission Viejo Chapter
Title of Talk: A new treatment may reverse age-related auditory processing deficits (October 12, 2021)

Invited Moderator for the Acoustical Society of America Webinar: Celebrating the millionth cochlear implant: Where shall we go from here? (August 2021)

Organizer and Host of the Center for Hearing Research Journal Club, University of California, Irvine: focus of topics cover research within the auditory sciences and diversity/disparities in science (2018 – 2021)

Postdoctoral mentor for University of California, Irvine Undergraduate Honors Collegium
Capstone for Molly Ced: Speech perception and motor theory (2021)

Featured in *Stars and Stripes*: Report: Cough-suppressant abuse on Okinawa still a problem, despite military efforts to stop it (September 24, 2020)

Invited guest speaker for the Hearing Well Club Laguna Woods
Title of Talk: The tinnitus conundrum and the search for effective treatments (May 12, 2020)

Invited guest speaker for the Orange County Tinnitus Support Group
Title of Talk: Tinnitus treatment options: promising or not? (November 16, 2019)

Featured in *Tinnitus Today*, Vol 44(3): Young researchers motivated to help patients (Winter 2019)

Mentor for Summer Premed Workshop, University of California, Irvine (2019)

Mentor for the California State Summer School for Math and Science (COSMOS) (2019)

Students Meet Members for Lunch (SMMfL): Volunteer Member
2018 Joint Acoustical Society of America/Canadian Acoustical Association Meeting
Victoria, BC, Canada (November 8, 2018)

Special Awards Judge for the Dallas Regional Science and Engineering Fair
Area: Acoustics, Representing the Acoustical Society of America
Dallas, TX (February 27, 2016; February 25, 2017)

Graduate Student mentor for The University of Texas at Dallas Undergraduate Honors Thesis

for Tina Dam: Comparing effects of non-traumatic and traumatic noise exposure on Arc protein expression in limbic regions (2015)

Graduate Student mentor for The University of Texas at Dallas Undergraduate Honors Thesis for Claire Barnes: Using a gap-startle paradigm to assess gender differences in the development of tinnitus (2013)

Assistant to UT Dallas Cognition and Neuroscience Program Head (Fall 2013, Spring 2014)

Invited Reviewer of Manuscripts/Grant Proposals

Manuscript Reviews

Acta Acoustica
Annals of Otolaryngology and Rhinology
Ear and Hearing
Frontiers in Psychology
Hearing Research
Journal of the Acoustical Society of America
Journal of the Acoustical Society of America Express Letters
Journal of the Association for Research in Otolaryngology
Journal of Speech, Language, and Hearing Research
Language and Speech
Speech Communication
Trends in Hearing

Grant Proposal Reviews

Health Research Council of New Zealand

Funding

NIH NIDCD Early Career Research Award R21: *Toward an objective diagnostic measure and candidate treatment for tinnitus* (in preparation)

University of California, Irvine, Center for Hearing Research Postdoctoral Fellowship: T32 Training Grant (September 2018 – September 2020)

AAAS/Science Program for Excellence in Science, University of California, School of Medicine (2020)

Acoustical Society of America Early Career Travel Subsidy (November 2018)

The University of Texas at Dallas Small Research Grant (May 2017)

Dissertation Research Award (May 2017)

Acoustical Society of America Student Travel Subsidy (November 2016)

School of Behavioral and Brain Sciences' Research Stipend for Women in Bio-Behavioral Sciences (Fall 2012)

The University of Texas at Dallas Graduate Student Grant to attend Plexon's Neurophysiology Workshop (April 2012)

The University of Texas at Dallas Graduate Student Travel Award (November 2011, October 2012, November 2013, November 2014, September 2016, December 2017)

The University of Texas at Dallas Graduate Research/Teaching Assistantship (2012 – 2017)

Professional Affiliations

Center for Hearing Research, University of California, Irvine, *member* (2023 – present)

American Association for the Advancement of Science, *member* (2020 – present)

Association for Research in Otolaryngology, *member* (2019 – present)

International Speech Communication Association, *member* (2016 – present)

Acoustical Society of America, *member* (2013 – present)

Society for Neuroscience, *member* (2011 – present)