

Heidi M. Mettler, MS, CCC-SLP
mettlerh@email.arizona.edu
ORCID ID: 0000-0003-1305-908X
Speech, Language, and Hearing Sciences
University of Arizona, Tucson, AZ 85721

EDUCATION

2017 – present **PhD in Speech, Language, and Hearing Sciences, minor in Cognitive Science**

University of Arizona (Tucson, AZ)

Mentor: Mary Alt, PhD, CCC-SLP

Completed comprehensive exams Spring 2019

Dissertation topic: Cognitive skills underlying implicit statistical learning

During the 2019-2020 school year, I completed a clinical fellowship in the Tucson Unified School District.

2015 – 2017 **MS in Speech, Language, and Hearing Sciences**

University of Arizona (Tucson, AZ)

Master's thesis: *The Relationship Between Phonological Working Memory and Sentence Production in School-Age Children*

Advisor: Mary Alt, PhD, CCC-SLP

2008 – 2012 **BA Linguistics, BA Psychology, minor in Spanish (*summa cum laude*)**

University of Southern California (Los Angeles, CA)

Directed Research: *Investigating Children's and Adults' Narratives*

Advisor: Elsi Kaiser, PhD

PEER-REVIEWED PUBLICATIONS

- Kapa, L. L., & **Mettler, H. M.** (2021). Language and executive function in preschoolers with DLD: The role of self-directed speech. *Perspectives of the ASHA Special Interest Groups*. https://doi.org/10.1044/2021_PERSP-21-00010
- Alt, M., Figueroa, C. R., **Mettler, H. M.**, Evans-Reitz, N., & Erikson, J. A. (2021). A Vocabulary Acquisition and Usage for Late Talkers (VAULT) treatment efficacy study: The effect of input utterance length and identification of responder profiles. *Journal of Speech, Language, and Hearing Research*, *64*, 1235-1255. https://doi.org/10.1044/2020_JSLHR-20-00525
- Alt, M., **Mettler, H. M.**, Erikson, J. A., Figueroa, C. R., Ethers-Thomas, S. E., Arizmendi, G. D., & Oglivie, T. (2020). Exploring input parameters in an expressive vocabulary treatment with late talkers. *Journal of Speech, Language, and Hearing Research*, *63*(1), 1-18. https://doi.org/10.1044/2019_JSLHR-19-00219
- Plante, E., **Mettler, H. M.**, Tucci, A., & Vance, R. (2019). Maximizing treatment efficiency in developmental language disorder: Positive effects in half the time. *American Journal of Speech-Language Pathology*, *28*, 1233-1247. https://doi.org/10.1044/2019_AJSLP-18-0285
- DiLallo, J., **Mettler, H.**, & DeDe, G. (2017). Corpus-based transitivity biases in individuals with aphasia. *Aphasiology*, *31*(4), 447-464. <https://doi.org/10.1080/02687038.2016.1271105>

MANUSCRIPTS IN PREPARATION

- Mettler, H. M.**, Neiling, S. L., Figueroa, C. R., Evans-Reitz, N., & Alt, M. (2021). *Vocabulary Acquisition and Usage for Late Talkers: The feasibility of a remote caregiver-implemented model*. Manuscript in preparation.
- Mettler, H. M.**, Alt, M., Gray, S., Hogan, T., Green, S., & Cowan, N. (2021). *The relationship between phonological working memory and sentence production in school-age children*. Manuscript in revision.

PRESENTATIONS

- Mettler, H. M.**, Neiling, S. L., Figueroa, C. R., Evans-Reitz, N., & Alt, M. (2021, August). *The feasibility of translating an expressive vocabulary treatment for late-talking toddlers to a caregiver-implemented model* [Virtual poster presentation]. Late Talker Workshop 2021, University of Warwick, England.
- Mettler, H. M.**, Neiling, S. L., Figueroa, C. R., Evans-Reitz, N., & Alt, M. (2021, June). *The feasibility of translating an expressive vocabulary treatment for late-talking toddlers to a caregiver-implemented model* [Virtual poster presentation]. Symposium on Research in Child Language Disorders, Madison, WI.

- Mettler, H.** (2019, November). *Principles of statistical learning* [Oral presentation]. Tucson Unified School District Professional Development, Tucson, AZ.
- Mettler, H., Alt, M., Gray, S., Hogan, T., Green, S., & Cowan, N.** (2017, June). *The relationship between phonological working memory and sentence production in school-age children* [Poster presentation]. Symposium on Research in Child Language Disorders, Madison, WI.
- Mettler, H., Alt, M., Gray, S., Hogan, T., Green, S., & Cowan, N.** (2017, May). *The relationship between phonological working memory and sentence production in school-age children* [Oral presentation]. University of Arizona Speech, Language, and Hearing Sciences Departmental Colloquium, Tucson, AZ.
- DiLallo, J., **Mettler, H.**, & DeDe, G. (2015, November). *A corpus-based analysis of verb transitivity biases in individuals with aphasia* [Oral presentation]. American Speech-Language-Hearing Association Convention, Denver, CO.
- Mettler, H.** (2012, April). *Investigating children's and adults' narratives* [Poster presentation]. University of Southern California Undergraduate Research Symposium, Los Angeles, CA.

RESEARCH EXPERIENCE

- 2017 – present **Project Coordinator.** Language, Learning, Literacy, and Lexicon (L4) Lab.
 Director: Mary Alt, PhD, CCC-SLP. Speech, Language, and Hearing Sciences, University of Arizona.
Coordinate studies funded by a National Institutes of Health grant examining the parameters of a vocabulary intervention for late-talking toddlers. Duties include participant recruitment and screening, data collection and analysis, supervising undergraduate and master's students, and dissemination of research findings. Also supported the creation and implementation of a fully remote version of the intervention centering on caregiver training. Also supported data collection for multi-site project investigating working memory and academic achievement in school-age children with and without language-based learning disorders.
- Fall 2020 – 2021 **Graduate researcher.** Language and Cognition Lab.
 Director: Leah Kapa, PhD. Speech, Language, and Hearing Sciences, University of Arizona.
Assisted with dissemination of research findings by co-authoring a manuscript on self-directed speech and executive functioning in preschool children with developmental language disorder.
- Fall 2018 **Graduate researcher.** Language and Neuroimaging Research Lab.
 Director: Aneta Kielar, PhD. Speech, Language, and Hearing Sciences, University of Arizona
Supported data collection for neuroimaging study with typical adults and adults with acquired language disorders. Main duties included conducting sessions using electroencephalography and completing language assessments with participants.
- Summers 2018, 2021 **Graduate researcher.** Plante Lab.
 Director: Elena Plante, PhD, CCC-SLP. Speech, Language, and Hearing Sciences, University of Arizona
Supported intervention research studies funded by a National Institutes of Health grant examining the parameters of grammar intervention for preschoolers with developmental language disorder. Duties included supporting data collection, providing research-based language intervention as a clinician, supervising undergraduate and graduate students, data analysis, and dissemination of findings.
- 2016 – 2017 **Graduate researcher.** Language, Learning, Literacy, and Lexicon (L4) Lab.
 Director: Mary Alt, PhD, CCC-SLP. Speech, Language, and Hearing Sciences, University of Arizona
Completed data collection, data analysis, and dissemination of findings for a post-hoc study on working memory and sentence production in school-age children.
- 2014 – 2015 **Lab Manager.** Speech, Language, and Brain Lab.
 Director: Gayle DeDe, PhD, CCC-SLP. Speech, Language, and Hearing Sciences, University of Arizona
Coordinated studies examining language and cognition in adults with and without acquired language disorders. Completed eye-tracking sessions and assessments of language and cognition. Duties included participant recruitment and screening, data collection, dissemination of findings, and creation of experimental tasks using E-Prime.
- 2011 – 2012 **Undergraduate Research Assistant.** Language Processing Lab.
 Director: Elsi Kaiser, PhD. Linguistics Department, University of Southern California
Supported data collection for eye tracking and behavioral studies examining language and perception in college-age students. Conducted supervised eye tracking sessions as well as computer and activity-based language tasks. Transcribed and coded language data for semantic coherence and pronoun use. Completed corpus-based analysis of temporal and causal cohesive markers in children's narratives and disseminated these findings.

2010 **Undergraduate Research Assistant.** Language Development Lab.
Director: Toben Mintz, PhD. Psychology Department, University of Southern California
Supported data collection for behavioral speech perception studies with 7- to 15-month-old infants. Conducted supervised sessions using head turn preference procedure. Other duties included participant recruitment, screening, and scheduling, and supporting development of new experiments.

TEACHING EXPERIENCE

MAIN INSTRUCTOR

Summer 2021 **Instructor**
University of Arizona; Department of Speech, Language, and Hearing Sciences
Course: *Language Science* (upper division undergraduate, 8 students)
Supervising Faculty: Leah Kapa, PhD
Online, synchronous

Spring 2021 **Instructor**
California State University, Chico; Department of Communication Sciences and Disorders
Course: *Language Development* (upper division undergraduate, 65 students)
Online, synchronous

Summer 2018 **Instructor**
University of Arizona; Department of Speech, Language, and Hearing Sciences
Course: *Language Science* (upper division undergraduate, 8 students)
Supervising Faculty: Mary Alt, PhD, CCC-SLP

GUEST LECTURER

Fall 2021 **Guest Lecturer**
University of Arizona; Department of Speech, Language, and Hearing Sciences
Topic: *Language Disorders in Children*
Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students in Collaborative Learning Space)
Main instructors: Alyssa Heinz, MS, CCC-SLP and Katlyn Nickels, MS

Spring 2021 **Invited Lecturer**
University of Arizona College of Medicine; Department of Psychiatry
Topic: Speech and Language Evaluations
Course: Child & Adolescent Psychiatry Fellowship (graduate, 4 students)
Online, synchronous

Spring 2019 **Guest Lecturer**
University of Arizona; Department of Speech, Language, and Hearing Sciences
Topic: *Principles of Statistical Learning*
Course: *Developmental Language Disorders-School Age* (graduate, 30 students)
Main instructor: Elena Plante, PhD, CCC-SLP

Fall 2018 **Guest Lecturer**
University of Arizona; Department of Speech, Language, and Hearing Sciences
Topic: *Bilingualism in Children*
Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students in Collaborative Learning Space)
Main instructor: Pélagie Beeson, PhD, CCC-SLP

Fall 2018 **Guest Lecturer**
University of Arizona; Department of Speech, Language, and Hearing Sciences
Topic: *Autism Spectrum Disorder*
Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students in Collaborative Learning Space)
Main instructor: Pélagie Beeson, PhD, CCC-SLP

Fall 2018 **Guest Lecturer**
University of Arizona; Department of Speech, Language, and Hearing Sciences
Topic: *Language Disorders in Children*
Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students in Collaborative Learning Space)
Main instructor: Pélagie Beeson, PhD, CCC-SLP

Fall 2017 **Guest Lecturer**

University of Arizona; Department of Speech, Language, and Hearing Sciences

Topic: *Language Disorders in Children*

Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 100 students)

Main instructor: Pélagie Beeson, PhD, CCC-SLP

GRADUATE TEACHING ASSISTANT

Spring 2016, **Graduate Teaching Assistant**
-17, -18

University of Arizona; Department of Speech, Language, and Hearing Sciences

Course: *Language Acquisition* (mixed undergraduate and graduate, 60-90 students in Collaborative Learning Space)

Main instructor: Mary Alt, PhD, CCC-SLP

Fall 2015, -16, **Graduate Teaching Assistant**
-17, -18

University of Arizona; Department of Speech, Language, and Hearing Sciences

Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 60-120 students)

Main instructors: Andrew Demarco, PhD, CCC-SLP (2015-16), Pélagie Beeson, PhD, CCC-SLP (2017-18)

PROFESSIONAL DEVELOPMENT

2021 Late Talker Workshop 2021 [Virtual], University of Warwick, England
2021 Symposium on Research in Child Language Development [Virtual], Madison, WI
2021 (spring) Computing for the Research Lab virtual graduate course, University of Arizona
2020 (Oct.) Rethinking Educational Research During the COVID-19 Pandemic virtual workshop
2020 (Nov.) Many Paths to Language (MPaL) virtual workshop
2017 Beginner and Intermediate R Workshop, Tucson, AZ
2017 Symposium on Research in Child Language Development, Madison, WI
2017 Arizona Speech-Language-Hearing Association Annual State Convention
2015 American Speech-Language-Hearing Association Convention, Denver, CO
2015, -16, University of Arizona College of Science Teaching Assistant Training
-17

AWARDS & HONORS

2021 Titans of the Field Scholarship, University of Arizona Speech, Language, and Hearing Sciences Dept.
2021 Symposium on Research in Child Language Disorders Student Award
2017-19, 2021 Galileo Circle Scholarship, University of Arizona
2017 University of Arizona Speech, Language, and Hearing Sciences Student Travel Award
2017 Speech, Language, and Hearing Sciences Graduate Tuition Scholarship
2017 Grunewald Fellowship, University of Arizona Speech, Language, and Hearing Sciences Dept.
Since 2012 Phi Beta Kappa Honor Society
Since 2012 Psi Chi Honor Society

ACADEMIC SERVICE

Summer 2021 **Small Group Leader** for the Undergraduate Biology Research Program (UBRP) at the University of Arizona. Co-mentored a group of 10 undergraduate students. Conducted biweekly seminars on professional development topics.
Fall 2020 – **Grant reviewer** for graduate student grant applications through the Graduate and Professional Student Council at the University of Arizona.
present
2019 **Manuscript reviewer** under guidance of Dr. Leah Kapa for article submitted to *Language, Speech, and Hearing Sciences in Schools* ASHA journal.
2018 **Manuscript reviewer** under guidance of Dr. Mary Alt for article submitted to *Journal of Speech, Language, and Hearing Research* ASHA journal.
2017 **Volunteer** at Aphasia Booth, Science City at the Tucson Festival of Books, Tucson, AZ
2017 **Session moderator** and registration volunteer, Arizona Speech-Language-Hearing Association Annual

- Convention, Tucson, AZ
- 2017 **Contributing writer** on *Resources for Parents and Professionals*, University of Arizona Speech, Language, and Hearing Sciences Departmental Website (Mary Alt, PhD, CCC-SLP and Jennifer Casteix, MS, CCC-SLP)
- 2017 **Tour guide** for prospective graduate students, University of Arizona Speech, Language, and Hearing Sciences Department
- Fall 2016 **Mentor** for Mentorship as Transition Clinician Helpers (MaTCH) program for first-year master's student clinicians in Speech, Language, and Hearing Clinics at University of Arizona.

CLINICAL EXPERIENCE

- 2017 – present **Supported operations of toddler language treatment research.** Language, Learning, Literacy, and Lexicon (L4) Lab. Speech, Language, and Hearing Sciences Department, University of Arizona.
- Summer 2021 **Supported operations of preschool-age language treatment research.** Plante Lab. Speech, Language, and Hearing Sciences Department, University of Arizona.
- 2019 – 2020 **Clinical Fellow – Speech-Language Pathologist.** Tucson Unified School District – Bonillas Traditional Magnet Elementary School and Bloom Elementary School.
- Summer 2018 **Graduate clinician.** Talk MOORE Camp, University of Arizona.
- Spring 2017 **Graduate clinician.** Quail Run Elementary School, Marana Unified School District.
- Fall 2016 **Graduate clinician.** Tucson Unified School District – Borton Magnet Elementary School.
- Summer 2016 **Graduate clinician.** Technology Access for Life Connections Camp, University of Arizona Speech, Language, and Hearing Clinics.
- Spring 2016 **Graduate clinician.** Grunewald-Blitz Clinic for Communication Disorders in Children, University of Arizona Speech, Language, and Hearing Clinics.
- Fall 2015 **Graduate clinician.** Clinic for Adult Communication Disorders, University of Arizona Speech, Language, and Hearing Clinics.

PROFESSIONAL AFFILIATIONS & OTHER WORK EXPERIENCE

- Current **Certificate of Clinical Competence:** American Speech Language and Hearing Association (ASHA)
- Current **Speech-Language Pathology License:** State of Arizona
- 2012 – 2013 **Speech Data Quality Evaluator,** Google (via Adecco), Los Angeles, CA
Supported the development of text-to-speech and speech recognition technologies. Main duties included transcription and annotation of speech data. Also performed quality checks and trained coworkers on new projects.