

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

Updated: October 2022

EDUCATION

- 2017 – present **PhD in Speech, Language, and Hearing Sciences, minor in Cognitive Science**
University of Arizona (Tucson, AZ)
Dissertation topic: The Role of Cognitive Skills in Young Children's Statistical Learning Outcomes
Committee: Mary Alt, PhD, CCC-SLP (chair); Elena Plante, PhD, CCC-SLP; Leah Kapa, PhD
Comprehensive exams passed Spring 2019
- 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

- Mettler, H. M.**, Neiling, S. L., Figueroa, C. R., Evans-Reitz, N., & Alt, M. (in press). Vocabulary Acquisition and Usage for Late Talkers: The feasibility of a remote caregiver-implemented model. *Journal of Speech, Language, and Hearing Research*.
- Mettler, H. M.**, Alt, M., Gray, S., Hogan, T., Green, S., & Cowan, N. (2022). The relationship between phonological working memory and sentence production in school-age children with typical language, dyslexia, and comorbid dyslexia and developmental language disorder. *Journal of Child Language*, 1-35.
<https://doi.org/10.1017/S0305000922000435>
- 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-Thomson, 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

- Alt, M., **Mettler, H. M.**, Figueroa, C. R., Evans-Reitz, N., Burton, R. (2022). *A Vocabulary Acquisition and Usage for Late Talkers (VAULT) treatment efficacy study: The effect of physical and activity variability on learning unknown words*. Manuscript in preparation.
- Sweeney, L., Plante E., **Mettler, H. M.**, & Hall, J. (2022). *Less vs. more: The effect of recast length in treatment of grammatical errors*. Manuscript in preparation.

PEER-REVIEWED PRESENTATIONS

- Sweeney, L., Plante, E., **Mettler, H. M.**, Vance, R., & Tucci, A. (2022, June). *Is less really more? The impact of clinician recast length on treatment gains*. [Poster presentation]. Symposium on Research in Child Language Disorders, Madison, WI.
- Mettler, H. M.**, & Kapa, L. L. (2021, November). *Self-directed speech produced by preschoolers with developmental language disorder during executive function tasks* [Virtual poster presentation]. American Speech-Language-Hearing Association Convention, Washington, D.C.
- 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.**, 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.
- 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.

NON-PEER-REVIEWED PRESENTATIONS

- Mettler, H.** (2021, December). *Dissertation prospectus: The contribution of attention, working memory, and variability to statistical learning in preschool-age children* [Oral presentation]. University of Arizona Speech, Language, and Hearing Sciences Departmental Colloquium, Tucson, AZ.
- 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.
- 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.
- Summers 2018, 2021 **Graduate research assistant.** 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.
- 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.

- 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 2022 Course: *Language Science* (upper division undergraduate, 10 students)
Location: University of Arizona; Department of Speech, Language, and Hearing Sciences
Modality: Online, synchronous
- Summer 2021 Course: *Language Science* (upper division undergraduate, 8 students)
Location: University of Arizona; Department of Speech, Language, and Hearing Sciences
Modality: Online, synchronous
- Spring 2021 Course: *Language Development* (upper division undergraduate, 65 students)
Location: California State University, Chico; Department of Communication Sciences and Disorders
Modality: Online, synchronous
- Summer 2018 Location: University of Arizona; Department of Speech, Language, and Hearing Sciences
Course: *Language Science* (upper division undergraduate, 8 students)
Modality: In-person, traditional classroom

GUEST LECTURER

- Oct. 2021 Topic: *Language Disorders in Children*
Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students)
Location: University of Arizona; Department of Speech, Language, and Hearing Sciences
Modality: In-person, collaborative learning space
- Feb. 2019 Topic: *Principles of Statistical Learning*
Course: *Developmental Language Disorders-School Age* (graduate, 30 students)
Location: University of Arizona; Department of Speech, Language, and Hearing Sciences
Modality: In-person, traditional classroom
- Oct. 2018 Topic: *Bilingualism in Children*
Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students)
Location: University of Arizona; Department of Speech, Language, and Hearing Sciences
Modality: In-person, collaborative learning space
- Oct. 2018 Topic: *Autism Spectrum Disorder*
Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students)

students)

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

Modality: In-person, collaborative learning space

Oct. 2018

Topic: *Language Disorders in Children*

Course: *Survey of Human Communication and Its Disorders* (lower division undergraduate, 65 students)

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

Modality: In-person, collaborative learning space

Oct. 2017

Topic: *Language Disorders in Children*

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

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

Modality: In-person, traditional classroom

GRADUATE TEACHING ASSISTANT

Spring 2016,

-17, -18

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

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

Main instructor: Mary Alt, PhD, CCC-SLP

Modality: In-person, collaborative learning space

Fall 2015, -16,

-17, -18

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

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

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

Modality: In-person, traditional classroom ('15-'17) and collaborative learning space ('18)

PROFESSIONAL DEVELOPMENT

2022 (Sep. – present)

ASHA Mentoring Academic-Research Careers (MARC) mentee; Mentor: Hope Lancaster, PhD

2022 (Fall)

Inclusive STEM Teaching Project, national massive open online course

2022 (Fall)

University of Arizona Inclusive STEM Teaching Project Learning Community [Virtual]

2022 (Sep.)

Grunewald Blitz Workshop – Speech Sound Disorders: Basic and Complex; Department of Speech, Language, and Hearing Sciences, University of Arizona

2022 (April)

Implementation Science IS For All: A CSD Practice-Research Exchange Conference [Virtual]

2021 (Sep.)

Grunewald Blitz Workshop – Lived Experience of Disability: Moving Beyond Diagnosis in Our Professions; Department of Speech, Language, and Hearing Sciences, University of Arizona [Virtual]

2021 (Nov.)

American Speech-Language-Hearing Association Convention, Washington, D.C. [Virtual]

2021 (Aug.)

Late Talker Workshop 2021, University of Warwick, England [Virtual]

2021 (June)

Symposium on Research in Child Language Development, Madison, WI [Virtual]

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,

-17

University of Arizona College of Science Teaching Assistant Training

SCHOLARSHIPS, AWARDS, & HONORS (awarded)

2021

University of Arizona Speech, Language, and Hearing Sciences Student Travel Award

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.
2012 – present	Phi Beta Kappa Honor Society
2012 – present	Psi Chi Honor Society

SCHOLARSHIPS & GRANTS (applied, not awarded)

2022	ASHFoundation New Century Scholars Doctoral Scholarship
2022	Philanthropic Educational Organization (P.E.O.) Scholar Award
2022	Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) Ph.D. Scholarship
2022	Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) Plural Publishing Scholarship
2021	Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) Plural Publishing Scholarship
2017	University of Arizona Graduate and Professional Student Council Travel Grant
2017	ASHFoundation New Century Scholars Doctoral Scholarship

ACADEMIC SERVICE

Spring 2022 – present	Co-facilitator for PhD Brown Bag program in the Speech, Language, and Hearing Sciences Department at the University of Arizona.
Fall 2022	Co-Leader for development of community equity commitments in the Department of Speech, Language, and Hearing Sciences at the University of Arizona. Assisted Dr. Robin Samlan interface with graduate students and faculty to achieve agreed-upon equity commitments.
Fall 2020 – present	Grant reviewer for graduate student grant applications through the Graduate and Professional Student Council at the University of Arizona.
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.
April 2021	Co-presenter for Department of Psychiatry graduate students at University of Arizona College of Medicine, Tucson, AZ Topic: <i>Speech and Language Evaluations</i> ; Modality: Online, synchronous
2021	Manuscript reviewer under guidance of Dr. Leah Kapa for article submitted to <i>Journal of Speech, Language, and Hearing Research</i> ASHA journal.
Nov. 2019	Presenter for professional development for speech-language pathologists, Tucson Unified School District, Tucson, AZ Topic: <i>Principles of statistical learning</i> ; Modality: In-person
2019	Manuscript reviewer under guidance of Dr. Leah Kapa for article submitted to <i>Language, Speech, and Hearing Sciences in Schools</i> ASHA journal.
2018	Manuscript reviewer under guidance of Dr. Mary Alt for article submitted to <i>Journal of Speech, Language, and Hearing Research</i> 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 <i>Resources for Parents and Professionals</i> , 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
Summer 2021
2019 – 2020
Summer 2018
Spring 2017
Fall 2016
Summer 2016
Spring 2016
Fall 2015

Supported operations of toddler language treatment research. Language, Learning, Literacy, and Lexicon (L4) Lab. Speech, Language, and Hearing Sciences Department, University of Arizona.

Supported operations of preschool-age language treatment research. Plante Lab. Speech, Language, and Hearing Sciences Department, University of Arizona.

Clinical Fellow – Speech-Language Pathologist. Tucson Unified School District – Bonillas Traditional Magnet Elementary School and Bloom Elementary School.

Graduate clinician. Talk MOORE Camp, University of Arizona.

Graduate clinician. Quail Run Elementary School, Marana Unified School District.

Graduate clinician. Tucson Unified School District – Borton Magnet Elementary School.

Graduate clinician. Technology Access for Life Connections Camp, University of Arizona Speech, Language, and Hearing Clinics.

Graduate clinician. Grunewald-Blitz Clinic for Communication Disorders in Children, University of Arizona Speech, Language, and Hearing Clinics.

Graduate clinician. Clinic for Adult Communication Disorders, University of Arizona Speech, Language, and Hearing Clinics.

ORGANIZATIONS, PROFESSIONAL AFFILIATIONS, & OTHER WORK EXPERIENCE

August 2020 – present
Current
Current
2012 – 2013

Member of STudents for AntiRacism (STAR) student group at University of Arizona

Certificate of Clinical Competence: American Speech Language and Hearing Association (ASHA)

Speech-Language Pathology License: State of Arizona

Speech Data Quality Evaluator, Google (via Adecco), Los Angeles, CA

Supported the development of text-to-speech and speech recognition technologies. Transcribed and annotated of speech data. Performed quality checks and trained colleagues on new projects.