

Emily K. Lorang, M.S., CCC-SLP

Department of Communication Sciences & Disorders
Waisman Center
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EDUCATION

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| In Progress | Ph.D. Communication Sciences & Disorders, University of Wisconsin-Madison
Chair: Audra M. Sterling, Ph.D. |
| 2016 | M.S., Speech Language Pathology, University of Wisconsin-Madison
Thesis: <i>Gesture Use in Fragile X Syndrome and Down Syndrome</i> |
| 2014 | B.S., Communication Sciences & Disorders, Spanish, University of Wisconsin-Madison |

RESEARCH EXPERIENCE

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| 2014 – Present | Graduate Research Assistant, University of Wisconsin-Madison
<i>Research in Developmental Disabilities Language Lab</i>
PI: Audra Sterling, Ph.D. |
| 2018 – Present | Graduate Research Assistant, University of Wisconsin – Madison
<i>Hartley Lab: Promoting Positive Development and Fostering Healthy Family Relationships Across the Life Course</i>
PI: Sigan Hartley, Ph.D. |
| 2016 - 2020 | Child Language Predoctoral Trainee, University of Wisconsin - Madison
<i>Interdisciplinary Training in Speech-Language Disorders</i> , T32 DC005359
PI: Susan Ellis Weismer, Ph.D., Research Mentor: Audra Sterling, Ph.D. |
| 2014 – 2016 | Research Assistant, University of Wisconsin-Madison
<i>Learning to Talk Lab</i>
PI: Jan Edwards, Ph.D. |

AWARDS & HONORS

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| 2020 | ASHFoundation New Century Scholars Doctoral Scholarship |
| 2018-2020 | Morse Society Scholars Program & Fellowship |
| 2018-2019 | Waisman Center Wisconsin Distinguished Graduate Fellowship |
| 2017 | David Zeaman Student Travel Award, the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities |

2015 Loon Fellowship, Department of Communication Sciences and Disorders,
University of Wisconsin-Madison

EXTRAMURAL RESEARCH SUPPORT

Lorang, E. Principal Investigator. National Institutes of Health Ruth L. Kirschstein Predoctoral Individual National Research Service Award (F31 DC018716): Language, physiology, and anxiety across contexts in autism spectrum disorder and fragile X syndrome, 2020-2022 (Award total: \$65,216).

Lorang, E. Principal Investigator. Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) Ph.D. Scholarship: Informing biobehavioral models through measuring heart rate variability and language performance across social contexts in autism spectrum disorder and typical development, 2020 (Award total: \$20,000).

INTRAMURAL RESEARCH SUPPORT

Lorang, E. Principal Investigator. UW-Madison Communication Sciences and Disorders Ray Kent Award: A parent report measure of pragmatic and structural language in children with ASD, 2019-2020 (Award total: \$500).

PUBLICATIONS

Peer-Reviewed Journal Articles (reverse chronological order)

Papp, L., Drastal, K., **Lorang, E.**, & Hartley, S. (in press). Mother-father physiological synchrony during conflict and moderation by parenting challenges: Findings from parents of children with autism spectrum disorder. *Family, Systems, and Health*.

Barton-Hulsey, A., **Lorang, E.**, Renfus, K., & Sterling, A. (in press). Maternal input and child language comprehension during book reading in children with Down syndrome. *American Journal of Speech-Language Pathology*.

Lorang, E., Hartley, S., & Sterling, A. (2020). Physiological arousal and observed behavior in parent-child interactions involving young children with Down syndrome. *Journal of Intellectual Disability Research*, 64, 426-433.

Friedman, L., **Lorang, E.**, Hilvert, L., & Sterling, A. (2020). Are we done yet? Question-asking in boys with fragile X syndrome and idiopathic autism spectrum disorder. *Journal of Speech, Language, and Hearing Research*, 63, 1822-1834.

Lorang, E., Venker, C., & Sterling, A. (2020). An investigation into maternal use of telegraphic input to children with Down syndrome. *Journal of Child Language*, 47, 225-249.

Friedman, L., **Lorang, E.**, & Sterling, A. (2019). The use of demonstratives and personal pronouns in fragile X syndrome and autism spectrum disorder. *Clinical Linguistics & Phonetics*, 33, 420-436.

Lorang, E., Sterling, A., & Schroeder, B. (2018). Maternal responsiveness to gestures in children with Down syndrome. *American Journal of Speech-Language Pathology*, 27, 1018-1029.

Lorang, E. Sterling, A., & the Expressive Language Consortium. (2017). The impact of autism spectrum disorder symptoms on gesture use in fragile X syndrome and Down syndrome. *Autism and Developmental Language Impairments*, 2, 1-14.

Publications Under Review

Lorang, E. & Sterling, A. (revise & resubmit). Parent command use and child compliance during parent-child interactions including children with Down syndrome.

Maltman, N., Friedman, L., **Lorang, E., & Sterling, A. (revise & resubmit).** Dysfluencies and perseverations in boys with fragile X syndrome and autism spectrum disorder and relationships with maternal dysfluencies.

Lorang, E., Hong, J., DaWalt, L. S., & Mailick, M. (under review). Bidirectional relations between maternal affect, relationship quality, and maladaptive behaviors in FXS.

Hilvert, L., **Lorang, E., & Sterling, A. (under review).** Maternal use of decontextualized and contextualized talk: An in-depth investigation of early parent-child interactions in Down syndrome.

PRESENTATIONS

COMPETITELY REVIEWED PRESENTATIONS

Lorang, E. & Sterling, A. (2020, November). *Do fathers talk like mothers? Comparing maternal and paternal input to children with Down syndrome.* Technical research presentation accepted for the Annual Convention of the American Speech-Language-Hearing Association [Conference Canceled], San Diego, CA.

Lorang, E. & Sterling, A. (2020, May). *Examining the utility of Language Environment Analysis (LENA) technology for measuring parent-child interactions including children with Down syndrome.* Poster presentation accepted for the Symposium on Research in Child Language Disorders [Conference Canceled], Madison, WI.

Lorang, E. & Sterling, A. (2020, April). *Examining physiological arousal and language during mother-child conversations in boys with fragile X syndrome.* Poster presentation accepted for the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities [Conference Canceled], San Diego, CA.

Hilvert, E., **Lorang, E. & Sterling, A. (2020, April).** *Comparing the use of decontextualized language in mothers of children with Down syndrome and typical development.* Poster presentation accepted for the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities [Conference Canceled], San Diego, CA.

- Lorang, E.** & Sterling, A. (2019, June). *Command use and child compliance during parent-child interactions including children with Down syndrome and children with typical development*. Poster presentation at the Symposium on Research in Child Language Disorders, Madison, WI.
- Barton-Hulsey, A., **Lorang, E.**, Renfus, K., & Sterling, A. (2018, November). *Home literacy experiences in children with Down syndrome*. Poster presentation at the American Speech Language and Hearing Association Convention, Boston, MA.
- Lorang, E.**, Venker, C., Renfus, K., & Sterling, A. (2018, June). *An investigation into the grammatical and lexical quality of maternal input to children with Down syndrome*. Poster presentation at the Symposium on Research in Child Language Disorders, Madison, WI.
- Lorang, E.**, Barton-Hulsey, A., Sterling, A., & Hartley, S. (2018, April). *The relationship between maternal and paternal molar responsivity and child behavior in children with DS*. Poster presentation at the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
- Barton-Hulsey, A., **Lorang, E.**, Sterling, A., McFadd, E., & Hustad, K. (2018, April). *Receptive language and maternal responsivity in children with Down syndrome and cerebral palsy*. Poster presentation at the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
- Brinkman, J., **Lorang, E.**, & Sterling, A. (2018, April). *The impact of ASD severity on gesture use in individuals with Down syndrome and idiopathic ASD*. Poster presentation at the Undergraduate Research Symposium. Madison, WI.
- Glavee, K. & **Lorang, E.** (2018, February). *Integrating AAC into parent-child interactions in the birth to three population*. Oral presentation presented at the Wisconsin Speech-Language Pathology and Audiology Association Convention. Wisconsin Dells, WI.
- Barton-Hulsey, A., **Lorang, E.**, Sterling, A. (2017, November). *Maternal input and child language comprehension during book reading in children with Down syndrome*. Poster presentation at the American Speech Language and Hearing Association Convention, Los Angeles, CA.
- Lorang, E.**, Schroeder, B., Sterling, A. (2017, June). *The influence of child factors on maternal input to children with Down syndrome*. Poster presentation at the Symposium on Research in Child Language Disorders, Madison, WI.
- Lorang, E.** & Sterling, A. (2017, March). *The impact of ASD on gesture-speech integration in DS and FXS*. Poster presentation at the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Antonio, TX.
- Barton-Hulsey, A., Sterling, A., **Lorang, E.**, Friedman, L., & Schroeder, S. (2017, March). *Social communication and expressive language in children with idiopathic ASD and comorbid ASD and fragile X syndrome*. Poster presentation at the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Antonio, TX.

Wagner, E., Sterling, A., Friedman, F., Brinkman, J., Schroeder, S. (2016, June). *Gesture use in fragile X syndrome and Down syndrome*. Poster presentation at the Symposium on Research in Child Language Disorders, Madison, WI.

Friedman, F., Sterling, A., **Wagner, E.**, Willis, K., Schroeder, S. (2016, June). *Linking Eye Gaze and Language in FXS and ASD*. Poster presentation at the Symposium on Research in Child Language Disorders, Madison, WI.

INVITED PRESENTATIONS

School of Human Ecology, University of Wisconsin – Madison, Speaker at the Advanced Professional Development Seminar, Fall 2020, *Steps to Submitting and Receiving an NIH F31*

Communication Sciences and Disorders Proseminar, University of Wisconsin – Madison, Spring 2020, *Considerations for Measurement in Parent-Child Interactions Including Children with Down Syndrome*

Language and Learning Disorders of Children Graduate Course, University of Wisconsin – Madison, Guest Lecturer, Fall 2016, Fall 2017, Fall 2018, Fall 2019, *An Introduction to the Parent Coaching Model during Early Intervention*

Communication Sciences and Disorders Proseminar, University of Wisconsin – Madison, Spring 2017, *Maternal input to children with Down syndrome and the influence of child factors*

Verona Area School District Speech Language Pathology Professional Development Seminar, Spring 2016, *Matching AAC Apps to the Child's Needs*

Child Language Disorders Undergraduate Course, University of Wisconsin - Madison, Guest Lecturer, Spring 2016, *Pre-literacy Development*

Child Language Disorders Undergraduate Course, University of Wisconsin - Madison, Guest Lecturer, Spring 2016, *Literacy in School-Age Children*

Child Language Disorders Undergraduate Course, University of Wisconsin - Madison, Guest Lecturer, Fall 2015, *Augmentative & Alternative Communication*

LEADERSHIP

2020-2021 Student Representative, Communication Sciences and Disorders Diversity, Equity, and Inclusion Committee, University of Wisconsin - Madison

2015-2016 Co-President, National Student Speech Language Hearing Association, University of Wisconsin-Madison

TEACHING EXPERIENCE

2018 Teaching Methods, Department of Communication Sciences and Disorders, University of Wisconsin – Madison

Undergraduate course: *Language Development in Children and Adolescents (CSD240)*

Lectures taught: *How do infants communicate before they develop language?*

Is there a critical period for language acquisition?

Are there individual differences in typical language acquisition?

2015 Teaching Assistant, Department of Communication Sciences and Disorders,
University of Wisconsin-Madison
Undergraduate course: *Child Language Disorders: Assessment and Intervention (CSD440)*

2014-2015 Grader, Department of Communication Sciences and Disorders,
University of Wisconsin – Madison
Undergraduate courses: *Speech Acoustics and Perception (CSD 303)*, *Auditory Rehabilitation (CSD 425)*

MENTORSHIP

Undergraduate

Undergraduate Honors Thesis: Provided guidance in project development, data coding, statistical analyses, and presentation of findings.

Kelsey Stimes (2020).

Julie Brinkman (2018).

Graduate

Masters Thesis: Provided guidance in project development, statistical analyses, and document preparation.

Kallie Renfus (2019).

Bianca Schroeder (2017).

CLINICAL EXPERIENCE

09/18 – current Augmentative and Alternative Communication Consultant, Speech Language Pathologist, Madison, Wisconsin

01/18 – 08/18 Speech-Language Pathologist, Family Service Madison, Madison, Wisconsin
Programs: Bridges for Families Birth to Three, Functional Augmentative Communication Training Program

06/16 – 01/18 Clinical Fellow, Family Service Madison, Madison, Wisconsin
Programs: Bridges for Families Birth to Three, Functional Augmentative Communication Training Program

09/14 – 05/16 Graduate Student Clinician, Emphasis on children with intellectual and developmental disabilities, parent coaching, and augmentative and alternative communication

SERVICE

- 2019-2020 Graduate Student Symposium Review Committee, reviewer for the Gatlinburg Conference in Research and Theory in Intellectual and Developmental Disabilities
- 2017-2020 Program Committee, reviewer for the Symposium on Research in Child Language Disorders convention
- 2012-2016 Co-president, Secretary, Committee Chair, National Student Speech Language Hearing Association, University of Wisconsin – Madison

COURSES

Mentee in the Mentoring for Academic-Research Careers (MARC) Program through the American Speech-Language-Hearing Association (2020-2021)

Delta Inclusive Teaching Workshop (2020)

ADOS-2 Toddler Module Training (2020)

ADOS-2 Introductory Clinical Workshop - Modules 1- 4 (2018)

Waisman Center Ethics and Professional Development Seminar Series (2016-2017, 2020-2021)

PROFESSIONAL AFFILIATIONS

American Speech-Language Hearing Association