

Jennifer E. Markfeld, M.S., CF-SLP

Curriculum Vitae

jennifer.e.markfeld@vanderbilt.edu

EDUCATION

- August 2021-Present **Ph.D., Vanderbilt University**
Hearing and Speech Sciences
Affiliate, Frist Center for Autism & Innovation
Advisor: Tiffany Woynaroski, PhD, CCC-SLP
- May 2021 **M.S., Vanderbilt University**
Speech-Language Pathology
Leadership Education in Neurodevelopmental Disabilities (LEND) Fellow
GPA: 3.93
Advisor: Tiffany Woynaroski, PhD, CCC-SLP
Master's Thesis: Associations between Caregiver Stress and Language Outcomes in Infants with Autistic and Non-Autistic Siblings
- May 2019 **B.S. Summa Cum Laude, James Madison University**
Major: Communication Sciences and Disorders with honors
Minors: Honors Interdisciplinary Studies, Family Studies
GPA: 3.99
Advisor: Rory A. DePaolis, PhD
Honors Thesis: American and British Speech Differences in Low Socioeconomic Status Homes

SELECTED RECOGNITIONS

- 2022 **Vanderbilt Kennedy Center Science Day Data Blitz Award**
- 2022 **ASHA Convention Research Mentoring-Pair Travel Award**
- 2022 **Department of Hearing and Speech Sciences Poster Session Award Winner: \$750 Awarded**
- 2021 **Ohde-Grantham Research Award**
Recipient of award that recognizes excellence in research by a student in any of the graduate training programs in the Department of Speech and Hearing Sciences at Vanderbilt University.
- 2019-2020 **Leadership Education in Neurodevelopmental Disabilities (LEND) Fellow**
LEND is a 300+ hour leadership training program that emphasizes an interdisciplinary approach between professionals to provide family-centered care for children with neurodevelopmental disabilities.
- 2019 **ASHFoundation Graduate Student Scholarship Recipient: \$5,000 Awarded**
One of three nationwide to have been selected for the NSSLHA Scholarship, intended to recognize graduate students in communication sciences and disorders who demonstrate academic achievement and promise.
- 2015-2019 **President's List**
- 2018 **Phi Beta Pi Society**
- 2017 **Honors College Grant Recipient: \$5,000 Awarded**

FUNDING

*Denotes student mentee

- 8/22-7/23 **Vanderbilt Institute for Clinical and Translational Research Pilot Award**
“Links Between Early Prelinguistic Communication and Later Expressive Language in Infants with Autistic and Non-autistic Siblings”
PI: *Zoë Kiemel
Role: Primary Contact
\$2,000 Total Costs
- 3/22-4/23 **Vanderbilt Institute for Clinical and Translational Research Pilot Award**
“LENA Instrument Validation for Adults with Aphasia”
Role: Study Personnel
\$2,000 Total Costs
- 5/20-6/21 **Vanderbilt Institute for Clinical and Translational Research Pilot Award**
“Associations between Parental Stress and Depressive Symptoms and Language and Communication Outcomes in Infants at High- and Low-Risk for Autism Spectrum Disorder”
Role: PI (Primary Mentor: Tiffany Woynaroski, PhD, CCC-SLP)
\$2,000 Total Costs

PEER REVIEWED JOURNAL ARTICLES

*Denotes student mentee

‡Denotes Co-first authorship

Reviewed Publications

- Markfeld, J. E.**, ‡Feldman, J. I., Daly, C., Santapuram, P., Bowman, S. M., Dunham, K., Suzman E., Keceli-Kaysili, B., & Woynaroski, T. G. (2023). The stability and validity of automated indices of vocal development in infants with autistic and non-autistic siblings. *Journal of Speech, Language, and Hearing Research*, 66(12), 4934-4948. https://doi.org/10.1044/2023_JSLHR-23-00069
- Markfeld, J. E.**, Feldman, J. I., Bordman, S. L., Daly, C., Santapuram, P., Humphreys, K. L., Keçeli-Kaysili, B., & Woynaroski, T. G. (2023). Associations between caregiver stress and language outcomes in infants with autistic and non-autistic siblings: An exploratory study. *Journal of Speech, Language, and Hearing Research*, 66(1), 190-205. https://doi.org/10.1044/2022_JSLHR-22-00154
- Feldman, J. I., Garla, V., Dunham, K. A., **Markfeld, J. E.**, Bowman, S., Golden, A. J., Daly, C., Kaiser, S., Mailapur, N. Raj, S., Santapuram, P., Suzman, E., Augustine, A. E., Muhumuza, A., Cascio, C. J., Williams, K. L., Kirby, A. V., Keceli Kaysili, B., & Woynaroski, T. G. (2022). Longitudinal relations between early sensory responsiveness and later communication in infants with autistic and non-autistic siblings. *Journal of Autism and Developmental Disorders*, 1-13. <https://doi.org/10.1007/s10803-022-05817-3>
- Williams, Z. J., Suzman, E., Bordman, S. L., **Markfeld, J. E.**, Kaiser, S. M., Dunham, K. A., Zoltowski, A. R., Failla, M. D., Cascio, C. J., & Woynaroski, T. G. (2022). Characterizing interoceptive differences in autism: A systematic review and meta-analysis of case-control studies. *Journal of*

Under Review

Millager, R.A., Feldman, J. I., Williams, Z. J., Shibata, K., Martinez-Torres, K., Bryan, K. M., Pruet, D. G., Mitchell, J. T., **Markfeld, J. E.**, Merritt, B., Daniels, D. E., Jones, R. M., Woynaroski, T. (2023). *Diversity of research participant race, ethnicity, and gender in communication sciences and disorders: A review of recent ASHA publications*. <https://doi.org/10.31234/osf.io/6hdmz>
*this manuscript has been uploaded to PsyArXiv as a preprint.

Putnam, O.C., †**Markfeld, J. E.**, Feldman, J. I., Goldblum, J., Wright, S., Swanson, M. R., & Harrop, C. (2023). *The use of LENA in autism research: A systematic review*.

Markfeld, J. E., *Kiemel, Z., Santapuram, P., Bordman, S., Pulliam, G., Clark, S. M., Hampton, L. H., Keçeli-Kaysılı, B., Feldman, J. I., & Woynaroski, T. G. (2023). *Links between early prelinguistic communication and later expressive language in infants with autistic and non-autistic siblings*.

In Preparation

Markfeld, J. E., Feldman, J. I., Bush, C., Yoder, P. J., & Woynaroski, T. G. (2023). *ImPACT reduces social hyporesponsiveness and translates to more optimal spoken language outcomes in infants at increased likelihood of autism* [Manuscript in preparation].

CONFERENCE PRESENTATIONS

Invited

Markfeld, J. E., Bianco, S., Buchheit, M. K., Dunn, J., Hong, H., Spear, L., Woods, K. (2022, August 4-5). *What Is Evidence-Based Practice? Lessons From the Literature*. School Speech-Language Pathology Conference, Vanderbilt University, Nashville, TN.

Oral Presentations

Markfeld, J. E., Feldman, J., *Clark, S. M., Santapuram, P., Pulliam, G., Dunham-Carr, K., Suzman, E., Keçeli-Kaysılı, B., & Woynaroski, T. G. (2024, July 8-11). Links Between Caregiver Stress and Child Language Abilities in Infants with Autistic and Non-Autistic Older Siblings. In **J. E. Markfeld** (Chair), *Caregiver Stress and Associations with Infant Development Across Domains: Considerations for Measurement and Future Directions* [Symposium submitted for presentation]. International Congress of Infant Studies, Glasgow, Scotland.

Markfeld, J. E., Feldman, J., Bordman, S., Daly, C., Santapuram, P., Keçeli-Kaysılı, B., & Woynaroski, T. G. (2023, March 23-25). Associations between Caregiver Stress and Depression and Language in Infants with Autistic and Non-autistic Siblings. In **J. E. Markfeld** & R. R. Romeo (Chairs), *The Role of SES, Stress, and Language Input on Cognitive Development in at-risk Children* [Symposium]. Society for Research in Child Development, Salt Lake City, UT.

Markfeld, J. E., Dunham, K. A., Santapuram, P., Feldman, J. I., Bordman, S., Bowman, S. M., Raj, S., Suzman, E., Keçeli-Kaysılı, B., & Woynaroski, T. G. (2023, March 23-25). *Links between looking to audiovisual speech and later language in infants with autistic and non-autistic siblings* [Flash Talk]. Society for Research in Child Development, Salt Lake City, UT.

Putnam, O., †**Markfeld, J. E.**, Goldblum, J., Wright, S., Swanson, M., & Harrop, C. (2022, November 17-

19). *The use of Language ENvironment Analysis (LENA) in autism research: A systematic review*. American Speech-Language-Hearing Association, New Orleans, LA.

Millager, R., Feldman, J. I., Shibata, K., Martinez-Torres, K., Bryan, K., Mitchell, J., Pruett, D., Williams, Z. J., **Markfeld, J. E.**, Merritt, B., Daniels, D., Jones, R., & Woynaroski, T. G. (2022, November 17-19). *Diversity of research participants in communication sciences and disorders*. American Speech-Language-Hearing Association, New Orleans, LA.

Posters

Markfeld, J. E., *Kiemel, Z., Santapuram, P., Bordman, S., Pulliam, G., *Clark, S. M., Hampton, L. H., Keçeli-Kaysılı, B., Feldman, J. I., & Woynaroski, T. G. (2024, July 8-11). *Links between Early Prelinguistic Communication and Later Expressive Language in Infants with Autistic and Non-autistic Siblings* [Poster submitted for presentation]. International Congress of Infant Studies, Glasgow, Scotland.

*Clark, S. M., **Markfeld, J. E.**, Pulliam, G., Santapuram, P., Keçeli-Kaysılı, B., Lewkowicz, D. J., Feldman, J. I., & Woynaroski, T. G. (2024, April). *Relations Between Preferential Looking to Synchronous Audiovisual Speech and Language in Infants with Autistic and Non-autistic Siblings* [Poster accepted for presentation]. The Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Kansas City, MO, United States.

Dunham-Carr, K., Keçeli-Kaysılı, B., Santapuram, P., **Markfeld, J. E.**, Pulliam, G., Feldman, J. I., & Woynaroski, T. G. (2024, May). *Looking and Neural Responses to Audiovisual Speech in Infants at Increased Likelihood for Autism: An Eye Tracking and ERP Study* [Poster submitted for presentation]. International Society for Autism Research Annual Meeting, Melbourne, Australia.

Dunham, K., Keçeli-Kaysılı, B., Golden, A. J., Santapuram, P., **Markfeld, J. E.**, Feldman, J. I., & Woynaroski, T. (2023, September 10-11). *Neural responses to audiovisual speech in infants at increased likelihood for autism: An ERP pilot study* [Poster presentation]. Fetal, Infant, & Toddler Neuroimaging Group Annual Conference, Santa Rosa, CA, United States.

Feldman, J. I., ***Markfeld, J. E.**, Millager, R., Crowley, S., Kouria, H., Williams, Z. J., Sandbank, M., Bottema-Beutel, K., & Woynaroski, T. G. (2023, April). *REPRESENT AIM: A systematic review and meta-analysis of the sample demographics in autism early intervention research* [Poster presentation]. Association for Clinical and Translational Science Annual Meeting, Washington, DC, United States.

*Kaiser, S., **Markfeld, J. E.**, Pulliam, G., Keçeli-Kaysılı, B., Feldman, J. I., & Woynaroski, T. G. (2023, April). *Construct validity of spontaneous language sampling contexts in 5 year-old siblings of autistic and non-autistic children* [Poster presentation]. Gatlinburg Conference on Research and Theory in Intellectual Disabilities, Kansas City, MO, United States.

*Kiemel, Z., **Markfeld, J. E.**, *Jamieson, O., Santapuram, P., Bordman, S., Keçeli-Kaysılı, B., Feldman, J. I., & Woynaroski, T. G. (2023, April). *Links between early prelinguistic communication and later expressive language in infants with autistic and non-autistic siblings* [Poster presentation]. Gatlinburg Conference on Research and Theory in Intellectual Disabilities, Kansas City, MO, United States.

Markfeld, J. E., Feldman, J. I., Daly, C., Santapuram, P., Bowman, S. M., Dunham, K., DiCarlo, G., Suzman, E., Keceli-Kaysili, B. & Woynaroski, T. (2023, March 9-11). *The stability and validity of automated indices of vocal development in infants at high- and low-risk for autism* [Poster presentation]. Meeting on Language in Autism, Durham, NC.

Markfeld, J., Feldman, J., Bordman, S., Daly, C., Santapuram, P., Keceli-Kaysili, B., & Woynaroski, T. G. (2022, November 17-19). *Associations between caregiver stress language outcomes in infants with autistic and non-autistic siblings* [Poster presentation]. American Speech-Language-Hearing Association, New Orleans, LA.

Markfeld, J. E., Dunham, K. A., Santapuram, P., Feldman, J. I., Bordman, S., Bowman, S. M., Raj, S., Suzman, E., Keçeli-Kaysili, B., & Woynaroski, T. G. (2022, June 14-16). *Links between looking to audiovisual speech and later language in infants with autistic and non-autistic siblings* [Poster presentation]. Building Linguistic Systems, York, England.

Dunham, K., Keceli-Kaysili, B., Golden, A., Santapuram, P., **Markfeld, J.**, Feldman, J., Woynaroski, T. (2021, November 8-11). *Neural responses to audiovisual speech in infants at increased likelihood for autism and links with language: An ERP pilot study* [Poster presentation]. Society for Neuroscience Annual Meeting, Chicago, IL, United States.

Markfeld, J., Feldman, J., Bordman, S., Daly, C., Santapuram, P., Keceli-Kaysili, B., & Woynaroski, T. (2021, April 5-8). *Associations between parental stress and depressive symptoms and language and communication outcomes in infant siblings of children with and without autism* [Poster presentation]. Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, Kansas City, MO, United States. <https://bit.ly/3dATjS6>

Markfeld, J., DePaolis, R. A., McGillion, M., McQuilkin, C., Seal, B. (2019, March 21-23). *American and British speech differences in low socioeconomic status homes* [Poster presentation]. Society for Research in Child Development, Baltimore, MD, United States. <https://bit.ly/2KjuD4z>

INVITED TALKS

1/30/2023 Cardiff University, Language and Cognition Research Group, Cardiff, Wales.

7/24/2019 University of York, Language and Linguistics, York, England.

RESEARCH EXPERIENCE

Nov. 2019-Present

**Biobehavioral Approaches in Neurodevelopmental Disorders
Laboratory, Vanderbilt University Medical Center**

Research Assistant, Master's Thesis

PI: Tiffany Woynaroski, PhD, CCC-SLP

Conceptualized and secured funding for a master's thesis project which examined communication of toddlers at high familial likelihood of autism. Transcription and coding team member for language sample analysis. Completed abstract and full-text screenings for a meta-analysis.

Nov. 2016-May 2019

Infant and Toddler Language Laboratory, James Madison University

Research Assistant, Honors Thesis

PI: Rory DePaolis, PhD

Used ELAN software for parent and infant speech transcription. Gained experience using the LENA recording device software for analysis of

Jan. 2016-Nov. 2016 populations from the US and the UK. Trained undergraduate students in transcription and analysis of language samples.
Speech Acoustics Laboratory, James Madison University
Research Assistant
PI: Christina Kuo, PhD
Trained in TF32 software to analyze speech of individuals with Parkinson's Disease.

CLINICAL EXPERIENCE

August 2021-Present **Clinical Fellow, Biobehavioral Approaches in Neurodevelopmental Disorders Laboratory, Vanderbilt University Medical Center**

August 2019-April 2021 **Clinical Practicum Placements**
Vanderbilt University Medical Center, Vanderbilt University Bill Wilkerson Center, Metropolitan Nashville Public Schools, Vanderbilt Kennedy Center Reading Clinic, Vanderbilt Children's Hospital

TEACHING EXPERIENCE

Clinical Education

Markfeld, J. E., Feldman, J. I., & Woynaroski, T. G. (2021). Evidenced based practices in CSD: From research to practice, as told by students. In T. G. Woynaroski and J. I. Feldman (Co-chairs), *Evidence-based practice case conference* [Professional development seminar]. Martha Lynch Lecture Series, Vanderbilt Bill Wilkerson Center, Nashville, TN, United States.
https://youtu.be/0w_OpVveWR0

Guest Lectures

10/17/2022 "Open Science and Self-Archiving in CSD: An Introduction"
Vanderbilt University, Hearing and Speech Sciences
HRSP 8000: Introduction to Doctoral Studies

10/4/2022 Moderator in "Diversity Series Journal Club: Cognitive and Communication Disorders and the School-to-Prison Pipeline in Minority Individuals of Color"
Vanderbilt University, Hearing and Speech Sciences
HRSP 8995: Research Colloquium

10/19/2021 "The Effects of Poverty on Biological and Neurodevelopmental Outcomes"
Vanderbilt University, Department of Psychology
PSY-GS 8420: Advanced Seminar in Clinical Psychology: The Effects of Poverty on Childhood Development

Teaching Assistantships

Fall 2023 **Vanderbilt University**
Department of Hearing and Speech Sciences
Teaching Assistant
HRSP 8371: Research Design and Statistical Analysis

Fall 2021 **Vanderbilt University**

Jennifer E. Markfeld

Last Updated 1/19/2024

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Department of Hearing and Speech Sciences
Teaching Assistant
AUD 5238/SLP 5238: Research in Communication Sciences and Disorders

Summer 2019 **University of York**
Department of Language and Linguistic Science
Teaching Assistant
CSD 490: Foundations of Linguistics

Research Supervision/Mentorship

Graduate Students

1. Mary Kate Buchheit, Vanderbilt University
MS-SLP Student, Hearing and Speech Sciences
Member of Master's Thesis Committee, 2022-2023

2. Zoë Kiemel, Vanderbilt University
MS-SLP Student, Hearing and Speech Sciences
Member of Master's Thesis Committee, 2022-2023

Undergraduate Students

1. S. Madison Clark, Vanderbilt University
Neuroscience Student
Research Mentor, Fall 2022-Present

2. Sophia Kaiser, Vanderbilt University
Cognitive Studies, and Medicine, Health & Society Student
Research Mentor, Fall 2022-Spring 2023

3. Habib Kouria, Vanderbilt University
Neuroscience Student
Research Mentor, Spring 2022

4. Hannah Schroyer, James Madison University
Honors Thesis Student Mentor, 2017-2019
Honors Thesis: *A step toward understanding the language environment of Spanish-learning infants*

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

American Speech-Language-Hearing Association (ASHA)
Daylong Audio Recordings of Children's Linguistic Environments (DARCLE) Pre-PI Consortium

PROFESSIONAL/CLINICAL TRAININGS

Autism Diagnostic Observation Schedule (ADOS-2) Clinical Training and Certification (April 2021):
Vanderbilt Kennedy Center

ACADEMIC/RESEARCH SERVICE

Ad Hoc Reviewer

Journal of Autism and Developmental Disorders [1]

Developmental Psychology [1]

Journal of Speech, Language, and Hearing Research [1]

Autism: International Journal of Research and Practice [1]

Journal of Experimental Child Psychology [1]

CSDisseminate Ambassador

Presentation to Hearing and Speech Department, April 13, 2022: *Improving Research Dissemination Through Access: Open Science and Self-archiving*. Research Colloquium, Vanderbilt Bill Wilkerson Center, Nashville, TN, United States.

OpenCSD Team Member

PhD Student-Faculty Liaison, Vanderbilt Department of Hearing and Speech Sciences

Living Laboratory Partnership with Adventure Science Center, Nashville, TN