# Employment

**Director** 2023-present

Sign Language and Deaf Education Center

**Assistant Professor** 2017-present

Programs in Deaf Studies

Secondary Appointment in Speech Language and Hearing Sciences

Boston University

**Lecturer** 2015-2017

Programs in Deaf Studies

Boston University

# Education

**Joint PhD in Psychology and Cognitive Science** 2015

Tufts University

Advisors: Ray Jackendoff and Ariel Cohen-Goldberg

**MA** Psychology 2010

Boston University

Advisor: Catherine Caldwell-Harris

**EdM** Deaf Education 2009

Boston University

Advisors: Marlon Kuntze and Robert Hoffmeister

**BA** Liberal Arts 2006

The Evergreen State College

Concentrations in Deaf Studies and Educational Interpreting

# Current Funded Research and Applications Under Review

**NIH** R01 $1,175,080 **–** submitted

Family language planning and language acquisition among deaf and hard of hearing children

Role: Co-Investigator

**Google** Award for Inclusion Research$60,000 **–** submitted

Role: Co-Principal Investigator

**Google** AI and the Global Goals$1,592,138 **–** submitted

Role: Principal Investigator

**NSF**  $ 208,058

Collaborative Research: Quantifying sign reduction in American Sign Language using human pose estimation

Role: Principal Investigator

**NIH** 3 R01 DC018279-04S1 2023-2024 $250,650

Supplement for Tackling Acquisition of Language in Kids

Role: Principal Investigator

**NIH** 3 R01 DC018279-02S12021-2022 $247,500

Supplement to Support Enhancement of Software Tools for Open Science

Role: Principal Investigator

**Microsoft** Gift, 2021 $190,000- declined

ASL Corpus

Role: Principal Investigator

**Microsoft** Gift, 2021 $9,000

ASL User Study

Role: Principal Investigator

**NSF** BCS-2017625, 2021-2022 $49,982

The Fourth International Conference on Sign Language Acquisition

Role: Principal Investigator

**NIH** 3 R01 DC018279-01S12020-2022 $238,955

Diversity supplement

Role: Principal Investigator

**NIH** 1R01 DC018279, 2020-2026 $2,241,592

Effects of input quality on ASL vocabulary acquisition in deaf children

Role: Principal Investigator

**NSF** BCS-1918252, 2019-2022, $317,838

Collaborative Research: Quantifying systematicity, iconicity, and arbitrariness in the American Sign Language Lexicon

Role: Principal Investigator

**Massachusetts DESE** 12/24/2019-6/30/2022, $152,727

Personnel preparation for teachers of the deaf (ASL/Total Communication)

Role: Co-Investigator

**NSF** BCS-1749384, 2018-2021, $67,554

Collaborative Research: Multimethod Investigation of Articulatory and Perceptual Constraints on Natural Language Evolution

Role: Principal Investigator

**NIH R21** Early Career Research Award DC016104, 2017-2021, $503,999

American Sign Language Vocabulary Acquisition

Role: Principal Investigator

**NSF** BCS-1625793, 2016-2020, $191,563

The structure of the ASL lexicon: Experimental and statistical evidence from a large

lexical database (ASL-LEX)

Role: Principal Investigator

# Software Releases

**ASL-LEX Search Service** (in progress). A service for searching a dictionary of signs either by producing the target sign in a webcam, or by typing English text.

**SignLab** (2023). A data collection and data tagging platform for collecting and labelling large amounts of ASL data.

**Sign-LEX** (2022). An interactive visualization platform that enables users to explore sign language lexicons. <https://www.sign-lex.org>

**ISL-LEX** (2022). An interactive visualization for exploring the Israeli Sign Language lexicon. <https://sites.google.com/view/isl-lex/about-isl-lex?authuser=0>

**Semantic Associates Data Tagging** (2021). A portal for tagging videos of ASL signs. <https://asl-lex-data-collection.web.app/login>

**Semantic Associates Data Collection** (2021). A portal for collecting videos of people producing free associations to signs in ASL. <https://asl-lex-data-collection.web.app/login>

**ASL-CDI 2.0** (2020). An online platform to deliver an ASL vocabulary assessment for children younger than five. It allows parents and early intervention specialists to track a child’s vocabulary development over time. <https://www.aslcdi.org/>

**ASL-LEX 2.0** (2021). The second iteration of an interactive lexical database of American Sign Language. ASL-LEX 2.0 includes a dataset that is four times the size of the first version, including nearly 3,000 signs and 250 lexical and phonological properties for each sign. <https://asl-lex.org/>

**ASL Community Dataset** (2021). A citizen science website that enables the community to contribute sign language videos to the first large-scale, diverse, labelled corpus, to advance sign language recognition and translation. <https://community.aslgames.org/>

**ASL-LEX 1.0** (2016). An interactive lexical database of American Sign Language. This version included 994 signs and 44 lexical and phonological properties. [www.asl-lex.org](http://www.asl-lex.org)

**ASL Battleships** (2019). An app that is a spin on the game Battleship where people can learn and practice ASL while also contributing sign language videos to the first large-scale, diverse, labelled corpus, to advance sign language recognition and translation.

# Papers

1. Kezar, L.\*, Pontecorvo, E., Daniels, A., Baer, C., Ferster, R., Berger, L., Thomason, J., Sehyr, Z., **Caselli, N.** (2023). The Sem-Lex Benchmark: Modeling Signs and Their Phonemes. *ACM SIGACCESS.*
2. \*Berger, L.**,** Lieberman, A., Pyers, J., **Caselli, N.** (2023). Parent ASL skills correlate with child–but not toddler–ASL vocabulary size. *Language Acquisition.*
3. \*Pontecorvo, E.**,** \*Higgins, M., \*Mora, J., Lieberman, A., Pyers, J., **Caselli, N.** (2023). Learning a sign language does not hinder acquisition of a spoken language. *Journal of Speech Language Hearing Research.*
4. \*Gappmayr, P., **Caselli, N.,** Pyers, J., Lieberman, A. (2022). Do parents modify child-directed signing to emphasize iconicity? *Frontiers in Psychology.*
5. Bragg, D., Glasser, A., Minakov, F., **Caselli, N.**, Thies, B. (2022). Exploring Collection of Sign Language Videos through Crowdsourcing. *ACM on Human-Computer Interaction.* **\*Won the Impact Award**
6. **Caselli, N.,** Occhino, C., Artucho, B., Savakis, A., Dye, M. (2022). Perceptual optimization of language: Evidence from American Sign Language. *Cognition.*
7. Dobbs, C., **Caselli, N.,** \*Hartzell, E., Flanagan, C., Yan, Y., (2021). Understanding middle graders’ language borrowing: How lexical and demographic characteristics predict borrowing. *Reading and Writing.*
8. **Caselli, N.,** Emmorey, K., Cohen-Goldberg, A. (2021). The signed mental lexicon: Effects of phonological neighborhood density, iconicity, and childhood language experience. *Journal of Memory and Language.*
9. Bragg, D., **Caselli, N.,** Hochgesang, J., Huenerfauth, M., Katz-Hernandez, L., Koller, O., Kushalnagar, R., Vogler, C., Ladner, R. (2021). The FATE landscape of sign language AI datasets: An interdisciplinary perspective. *ACM Transactions on Accessible Computing.*
10. **Caselli, N.,** Pyers, J., Lieberman, A., (2021). Deaf children of hearing parents develop age-level vocabularies if exposed to ASL by six-months. *Journal of Pediatrics.*
11. Bragg, D., **Caselli, N.,** Gallagher, J., \*Goldberg, M., Oka, C., Theis, B., (2021). ASL Sea Battle: Gamifying Sign Language Data Collection. CHI Conference on Human Factors in Computing Systems (CHI '21) **\*Won an honorable mention for best paper**
12. Sevcikova Sehyr, Z., **Caselli, N.,** Emmorey, K., Cohen-Goldberg, A. (2021). ASL-LEX2.0: A database of lexical and phonological properties for 2723 signs. *Journal of Deaf Studies and Deaf Education.*
13. Paul, R., Paatsch, L., **Caselli, N.,** Garberoglio, C., Goldin-Meadow, S., & Lederberg A., (2020). Current research in pragmatic language use among deaf and hard of hearing children. *Pediatrics.*
14. Bragg, D., Koller, O., **Caselli, N.,** Theis, B., (2020). Exploring Collection of Sign Language Datasets: Privacy, Participation, and Model Performance. *ACM SIGACCESS.*
15. **Caselli, N.,** Hall, W., Henner, J., (2020). American Sign Language Interpreters in Public Schools: An illusion of inclusion that perpetuates language deprivation. *Maternal and Child Health Journal.*
16. Richardson, H., Koster-Hale, J., **Caselli, N**, Magid, R., Olson, H., Benedict, R, Pyers, J, and Saxe, R. (2020). Reduced neural selectivity for mental states in deaf children with delayed exposure to sign language. *Nature Communications.*
17. \*Rosenburg, P., Lieberman, A., **Caselli, N.**, Hoffmeister, R. (2020). The development of a new ASL comprehension task. *Frontiers in Communication.*
18. **Caselli, N.,** Lieberman, A., Pyers, J. (2020). The ASL-CDI 2.0: An updated, normed adaptation of the MacArthur Bates Communicative Development Inventory for American Sign Language. *Behavior Research Methods.*
19. Bragg, D., Koller, O., Bellard, M., Berke, L., Boudrealt, P., Braffort, A., **Caselli, N.,** Huenerfauth, M., Kacorri, H., Verhoef, T., Vogler, C., Morris, M., (2019). Sign language recognition, generation, and translation: An interdisciplinary perspective. *ACM SIGACCESS.* **\*Won the best paper award**
20. **Caselli, N.,** Pyers, J. (2019). Degree and not type of iconicity affects sign language vocabulary acquisition. *Journal of Experimental Psychology: Learning, Memory, and Cognition.*
21. Hall, M. L., Hall, W. C., **Caselli, N**. (2019). Deaf children need language, not (just) speech. *First Language.*
22. **Caselli, N.,** Hall, W. C., Lillo-Martin, D. (2017). Operationalization and Measurement of Sign Language. [Letter to the Editor]. *Pediatrics*.
23. **Caselli, N.,** Pyers, J. (2017). The road to language learning is not entirely iconic: Neighborhood density, iconicity, and frequency facilitate sign language acquisition. *Psychological Science.*
24. **Caselli, N.**, Sevcikova, Z., Cohen-Goldberg, A., Emmorey, K. (2016). ASL-LEX: A Lexical Database for ASL. *Behavior Research Methods.*
25. **Caselli, N.**, Caselli, M., Cohen-Goldberg, A. (2015). Inflected words in production: Evidence for a morphologically rich lexicon. *Quarterly Journal of Experimental Psychology.*
26. **Caselli, N.** & Cohen-Goldberg, A. (2014). Lexical access in sign language: A computational model. *Frontiers in Psychology,* 5.

# Book Chapters, Conference Proceedings, and Commentary

Kezar, L.\*, Carlin, R., Srinivasan, T., Sehyr, Z., **Caselli, N.,** Thomason, J. (2023). Exploring Strategies for Modeling Sign Language Phonology. *ESANN*.

**Caselli, N.,** Dobbs, C., Wijaya, D., (2023). With ChatGPT’s Arrival, Should Educators Be Mourning the End of the College Essay? *BU Today.*

Lualdi, C., Wright, E., Hudson, J., **Caselli, N.,** Fellbaum, C. (2021). Implementing ASLNet V1.0: Progress and Plans. *11th International Global WordNet Conference.*

**Caselli, N.,** Pyers, J., Lieberman, A. (2021). Iconicity: A threat to ASL recognition or a window into human language acquisition? In Enns, Henner, & McQuarrie (Eds.) *Discussing Deaf Children: Essays in Honor of Robert Hoffmeister*. Routledge.

**Caselli, N.,** Hall, M. L., Hall, W. C., (2017). From “Communication Options” to Global-Language Proficiency. [Peer commentary on “Opportunities and shared decision-making to help children who are deaf to communicate,” by K. White and L. Cooper]. *Pediatrics*.

# Papers Submitted

\*Sampson, T., \*Becker, A., \*Campbell, E. E., Pyers, J., Hall, W. C., Sehyr, Z. S., Czubek, T., DiPerri, K., Henner, J., Emmorey, K., Petrich, J., Dobbs, C. L., Lieberman, A., Coppola, M., Langdon, C., \*Pontecorvo, E., \*Gappmayr, P., \*Lim, A., \*Higgins, M., Napoli, D. J., Harrison, N. E., Benedict, R., Holcomb, L., Jones Jr., F., Bottoms, A., Clark, M. D., **Caselli, N.,** (under review). Unintended Consequences: Potential Harms of Science of Reading Policies on Deaf Children. *Reading Research Quarterly*

\*Finton, E., Hall., W., Berke, M., Bye, R., Ikeda, S., **Caselli, N.**, (under review). Early bilingual education: Age-expected language and academic outcomes for deaf children with hearing parents. *Journal of Special Education.*

Dasai, A., \*Berger, L., Minakov, F., Milan, V., Singh, C., Pumphrey, K., Ladner, R., Daume, H., Lu, A., **Caselli, N.,** Bragg, D., (under review). ASL Citizen: A Community-Sourced Dataset for Advancing Isolated Sign Language Recognition. *NeurIPS.*

\*Campbell, E., Davis, C., Cooke, M., Houston, D., **Caselli, N.,** Bergelson, E. (under review). Early Production of Imperceptible Words by Infants and Toddlers Born Deaf or Blind. *PNAS.*

# Refereed Presentations

1. \*Pontecorvo, E., Lieberman, A., Pyers, J., **Caselli, N.** (2022). Translation equivalents in bimodal-bilingual deaf children’s ASL and spoken English vocabularies. Talk presented at the 47th annual Boston University Conference on Language Development, Boston, MA.
2. \*Berger, L., Pyers, J., Lieberman, A., **Caselli, N**. (2022). A piece of the puzzle: Semantic neighborhood density, iconicity, and frequency are important contributors to sign language acquisition. Talk presented at the 47th annual Boston University Conference on Language Development, Boston, MA.
3. Sehyr, Z., **Caselli, N.,** Goldberg, A. (2022). Mapping the semantic structure of American Sign Language lexicon using the ASL-LEX Database. Poster presented at the Theoretical Issues in Sign Language Research conference, Osaka, Japan.
4. \*Pontecorvo, E., \*Higgins, M., Pyers, J., **Caselli, N.** (2022). Early ASL and spoken English vocabulary sizes positively correlated in deaf children with hearing parents. Poster presented at the Theoretical Issues in Sign Language Research conference, Osaka, Japan.
5. \*Finton, E., Berke, M., Hall, W., **Caselli, N.**, (2022). The Relationship between Early Language Experience and Long-term Academic Outcomes. Talk presented at the International Conference on Sign Language Acquisition.
6. \*Berger, P., Pyers, J., & **Caselli, N.,** (2022). Variable non-native ASL input from parents to deaf children supports early child ASL vocabulary growth. Talk presented at the International Conference on Sign Language Acquisition. **\*Won the best paper by an Early Career Researcher award**
7. \*Gappmayr, P., Pyers, J., & **Caselli, N.,** (2022). Parents do not highlight iconicity in child-directed signing. Talk presented at the International Conference on Sign Language Acquisition.
8. \*Finton, E., Hall, W., Berke, M., Petersen, L., Eberwein, D., Rems-Smario, J., **Caselli, N.**, (2021). The Relationship between Early Language Experience and Long-term Academic Outcomes. Talk presented at the Early Hearing Detection and Intervention Conference.
9. \*Finton, E., Hall, W., Berke, M., Petersen, L., Eberwein, D., Rems-Smario, J., **Caselli, N.**, (2021). The Relationship between Early Language Experience and Long-term Academic Outcomes. Conference of Educational Administrators of Schools and Programs for the Deaf.
10. **Caselli, N**., Lieberman, A., Pyers, J., (2021). **Sign language vocabulary development in deaf children with hearing parents.** Talk presented at the International Association for the Study of Child Language.
11. \*Pontecorvo, E., \*Higgins, M., \*Mora, J., Lieberman, A., Pyers, J., **Caselli, N.,** (2021). Early sign language exposure does not prevent acquisition of spoken language. Talk presented at the 46th annual Boston University Conference on Language Development, Boston, MA.
12. \*Berger, L., Lieberman, A., Pyers, J., **Caselli, N.,** (2021). Non-native early ASL input from parents to deaf children acquiring ASL still supports ASL vocabulary growth. Talk presented at the 46th annual Boston University Conference on Language Development, Boston, MA.
13. Hall, M., DeAnda, S., **Caselli, N.**, (2021). Translating Research to Practice in Sign Language Acquisition: New Concepts, New Tools, New Data. Keynote presentation at the American Speech-Language-Hearing Association annual convention.
14. Leider, C.,Dobbs, C., **Caselli, N.,** (2021). A Mixed-Methods Study of School of Education Mission Statements and Teacher Licensure Data. Talk presented at the American Educational Research Association conference.
15. Dobbs, C., **Caselli, N.,** \*Hartzell, E., Flanagan, C., (2020). **Understanding middle graders’ language borrowing: How lexical and demographic characteristics predict similarity.** Talk presented at the American Educational Research Association conference, San Francisco, CA. \*canceled due to COVID-19
16. **Caselli, N**., Lieberman, A., Pyers, J., (2020). **The ASL-CDI 2.0: An updated, normed adaptation of the MacArthur Bates Communicative Development Inventory for American Sign Language.** Talk presented at the Early Hearing Detection and Intervention conference, Philadelphia, PA.
17. **Caselli, N**., Pyers, J., (2019). **Type of iconicity affects sign language vocabulary acquisition**. Talk presented at the 44th annual Boston University Conference on Language Development, Boston, MA.
18. Dye, M., Savakis, A., Artacho, B., Arora, A., **Caselli, N.,** Finton E., & Occhino, C. (2019). Perceptual Optimization of American Sign Language: Evidence from a Lexical Corpus. Talk presented at TISLR13 (The 13th Conference on Theoretical Issues in Sign Language Research), Hamburg, Germany.
19. **Caselli, N.**, Hall, W. (2019). Language Deprivation: Are Interpreters Complicit? Talk presented at the Registry of Interpreters for the Deaf National Conference, Providence, RI.
20. **Caselli, N**., Hall, W. (2019). Language Deprivation and Deaf Education. Conference of Educational Administrators of Schools and Programs for the Deaf, Denver, CO.
21. **Caselli, N.,** Pyers, J., Lieberman, A. (2018). American Sign Language Vocabulary Assessment. Talk presented at the Sign Language Acquisition and Assessment conference, Haifa, Israel.
22. **Caselli, N**., Pyers, J., Lieberman, A. (2018). **American Sign Language Vocabulary Assessment**. Talk presented at the 43rd annual Boston University Conference on Language Development, Boston, MA.
23. **Caselli, N.,** Hall, W. (2018). Language deprivation: Are interpreters complicit? Talk presented at the National Association of the Deaf convention, Hartford, Connecticut.
24. **Caselli, N.,** Pyers, J. (2017). The effect of iconicity type on the acquisition of gestural symbols and signs. Talk presented at the 11th International Symposium on Iconicity in Language and Literature, Brighton, United Kingdom.
25. **Caselli, N.,** Sevcikova Sehyr, Z., Cohen-Goldberg, A. M., Emmorey, K. (2016). An investigation of the American Sign Language lexicon. Talk presented at the 10th International Conference on the Mental Lexicon, Ottawa, Canada.
26. **Caselli, N**., Pyers, J. (2016). **American Sign Language Vocabulary Acquisition by Native Deaf Signers**. Talk presented at the 41st annual Boston University Conference on Language Development, Boston, MA.
27. **Caselli, N**., Cohen-Goldberg, A. M. (2016). Signs, emerging signs, and words: Exploring the (in)variance of lexical processing and the lexicon. Talk presented at the Language by Mouth and by Hand Symposium at the 57th Annual Meeting of the Psychonomic Society, Boston, MA.
28. **Caselli, N. (**2016). ASL –LEX: A database of ASL vocabulary. Paper presented at the National Deaf Education Conference, Phoenix, AZ.
29. **Caselli, N.,** Ergin, R., \*Ettlin, C., Cohen-Goldberg, A. M., Jackendoff, R. (2016). Iconicity, phonology, and the creation of a lexicon. Talk presented at the 7th Conference of the International Society of Gestural Studies. Paris, France.
30. Ergin, R., Meir, I., Ilkbasaran, D., **Caselli, N.,** Goldberg-Cohen, A., Padden, C. & Jackendoff, R. (2016). Emergence of Syntactic Cues in a Young Village Sign Language. Poster presented at the 7th Conference of the International Society for Gesture Studies. Paris, France.
31. **Caselli, N.,** & Cohen-Goldberg, A. M. (2016). Neighborhood density in sign perception. Talk presented at TISLR12 (The 12th Conference on Theoretical Issues in Sign Language Research), Melbourne, Australia.
32. Sevcikova, Z., **Caselli, N.**, Cohen-Goldberg, A. M., & Emmorey, K. (2016). ASL-LEX: A lexical database for American Sign Language. Poster presented at TISLR12 (The 12thConference on Theoretical Issues in Sign Language Research), Melbourne, Australia. **\*Won Sign Language Linguistic Society best early career award**
33. **Caselli, N.**, & Cohen-Goldberg, A. M. (2015) Frequency and Neighborhood Density Effects in ASL Sign Recognition. Talk presented at the 56th Annual Meeting of the Psychonomic Society, Chicago Illinois.
34. Cohen-Goldberg, A., **Caselli, N**., Miozzo, M. (2014). Morphological boundaries in phonological processing. Talk presented at the Ninth International Conference on the Mental Lexicon, Niagara-on-the-lake, Ontario, CA.
35. **Caselli, N.**, Cohen-Goldberg, A. (2014). Lexical access in sign language: A computational model. Poster presented at the Ninth International Conference on the Mental Lexicon, Niagara-on-the-lake, Ontario, CA.
36. **Caselli, N.**, Cohen-Goldberg, A. (2014). Word and root representations in the spontaneous production of regularly inflected words. Poster presented at the Ninth International Conference on the Mental Lexicon, Niagara-on-the-lake, Ontario, CA.
37. **Caselli, N.**, Ergin, R., Jackendoff, R., Cohen-Goldberg, A. (2014). The emergence of structure in Central Taurus Sign Language. Talk presented at From Sound to Gesture, Padova, IT.
38. **Caselli, N.**, Cohen-Goldberg, A. (2014) Lexical access in sign language: A computational model. Talk presented at From Sound to Gesture, Padova, IT.
39. **Caselli, N**., Cohen-Goldberg, A. (2014). Word and root representations in the spontaneous production of regularly inflected words. Poster presented at the International Workshop on Language Production, Geneva, CH.
40. Koster-Hale, J., **Berlove, N**, Magid, R., Benedict, R, Pyers, J, and Saxe, R. (2014). Early childhood experience has long-lasting impact on the neural basis of theory of mind. Talk presented at the Social Brain Sciences Symposium, Boston, MA.
41. Koster-Hale, J., **Berlove, N**, Magid, R., Benedict, R, Pyers, J, and Saxe, R. (2014). Early childhood experience has long-lasting impact on the neural basis of theory of mind. Talk presented at the annual conference of the Cognitive Science Society, Quebec, Canada.
42. Cohen-Goldberg, A., **Berlove, N.** (2012). Towards a theory of the phonological processing of multimorphemic words: The Heterogeneity of Processing Hypothesis. Talk presented at the 8th International Conference on the Mental Lexicon, Montreal, CA.
43. **Berlove, N**., Caselli, M., Cohen-Goldberg, A. (2012). The contribution of root and word representations to phonological processing of multimorphemic words. Talk presented at the 13th Conference on Laboratory Phonology. Stuttgart, DE.
44. **Berlove, N**., Cohen-Goldberg, A. (2012). The relative contributions of root and word representations to post-lexical processing of suffixed words. Poster presented at the International Workshop on Language Production, New York, NY.
45. **Berlove, N**., Cohen-Goldberg, A., Caselli M. (2011) A corpus investigation of the effects of morphological structure on phonetic duration. Poster presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle, WA.
46. **Berlove, N**., Cohen-Goldberg, A. (2011). Investigating the phonological processing of morphologically complex words. Poster presented at the Testing Models of Phonetics and Phonology Linguistic Institute 2011: Language in the World, Boulder, CO.
47. Kuntze, M., **Berlove, N.**, Goodman, C., Fish, S., Mesh, K. (2010). A language with polycomponential vocabulary: Issues of linguistic typology and the analysis of ASL vocabulary development. Talk presented at the 35th annual Boston University Conference on Language Development. Boston, MA.
48. **Berlove, N.**, Kuntze, M. (2010). Theory of Mind in Deaf Children. Talk presented at the 3rd Annual Inter Science of Learning Center Student and Post-Doc Conference. Boston, MA.
49. **Berlove, N**., Kuntze, M. (2010). Surrogates: Becoming More 'Like Me'. Poster presented at the National Science Foundation Annual Science of Learning Center Meeting, 2010, Arlington, VA.
50. Kuntze, M., Fish, S., **Berlove, N**., Goodman, C., Kim, K. (2010). A longitudinal investigation on the development of ASL vocabulary using naturalistic classroom interaction data. Talk presented at the Association of College Educators of the Deaf and Hard of Hearing. Lexington, KY.
51. **Berlove, N**. (2009). The benefits of the Berkeley Transcription System in transcription of mean length of utterance. Poster presented at the 2nd Annual Inter Science of Learning Center Student and Post-Doc Conference, Seattle, WA.
52. Saxena, A., Mehus, S., Dugan, T., Scopelitis, S., Scalone, G., **Berlove, N**., et al. (2009). Analysis of Video Data: A Collaborative Workshop (LIFE and VL2). Workshop presentation. Talk presented at the 2nd Annual Inter-Science of Learning Center Student and Post-Doc Conference. Seattle, WA.

\* mentee

# Invited Presentations

What Sign Languages Teach us about Iconicity in Language, LSA Summer Institute (2023)

National Deaf Child and Adolescent Mental Health Service in England (2023)

Keynote at the Read to Learn Conference, Sweden (2023)

Keynote at the Language First Conference (2022)

Keynote at the International Workshop on Language Production (2022)

Commencement speaker at Gallaudet University (2022)

Princeton (2022)

Keynote at the American Speech-Language-Hearing Association Convention (2021)

University of California San Diego (2021)

Basque Center on Cognition, Brain, and Language, BCBL (2021)

MIT (2021)

Conference of Educational Administrators of Schools and Programs for the Deaf (2021)

Columbia University (2021)

Lamar University (2021)

University of Texas Austin (2021)

Northeastern University (2020)

Gallaudet University (2020)

Vanderbilt University (2020)

Microsoft Research (2019)

Rising Star Lecture Series, San Diego State University (2019)

Tufts University (2019)

University of Connecticut (2019)

Brandies University (2019)

The Learning Center for Deaf Children (2018)

Keynote at the Signing SLPs Conference, American School for the Deaf (2018)

Tufts University (2018)

National Technical Institute for the Deaf (2018)

Keynote at the National Association of the Deaf convention (2018)

Harvard University (2018)

National Technical Institute for the Deaf (2017)

Keynote at the Educational Technology for the Deaf and Hard of Hearing Conference (2016)

New England Sign Language Festival (2016)

Emerging Sign Languages and the Big Picture Workshop, Tufts University (2015)

University of Connecticut (2014)

University of Connecticut (2014)

# Public Engagement and Guest Lectures

**Caselli, N**., Hall, W.(2020). Academic outcomes in deaf children with early ASL intervention. Webinar for the California School for the Deaf Webinar. Fremont, CA.

**Caselli, N.,** (2020). The ASL-CDI 2.0: A new ASL assessment for children 0-5. The Learning Center for Deaf Children, Framingham, MA.

**Caselli, N.,** (2019). The ASL-CDI 2.0: A new ASL assessment for children 0-5. The Learning Center for Deaf Children, Framingham, MA.

**Caselli, N.,** (2019). The ASL-CDI 2.0: A new ASL assessment for children 0-5. Conference of Educational Administrators of Schools and Programs for the Deaf, Camp Isola Bella, Salisbury, CT.

Hall, M., Hall, W., **Caselli, N.** (2019). What Deaf and Hard of Hearing children need is Language. Solicited vlog and blog from Acadeafic.

**Caselli, N**., Bottoms, A., Czubek, T., Lieberman, A., Finton, E.\*, Franck, A.\*, Malzkuhn, M.\* (2019). Deaf Education: The Intersections of Community Research and Practice. BU Wheelock Community Symposium.

**Caselli, N.,** (2019). Machine learning and the ASL lexicon. Data Science Day, Boston University, Boston, MA.

**Caselli N.** (2018). Vocabulary Acquisition in Deaf Children. Massachusetts Department of Public Health Early Intervention Meeting.

**Caselli N.** (2017). ASL-LEX: a tool for vocabulary instruction. Massachusetts Department of Elementary and Secondary Education Literacy Institute, Framingham, MA.

**Caselli N.** & Lieberman, A. (2017). Language Deprivation. The Horace Mann School for the Deaf, Boston, MA.

**Caselli, N.** (2016). Sign language morphology. Invited talk, Morphology Course, Tufts University.

**Caselli, N. (**2016). Codas in research. Presentation at the 31st annual CODA International conference, Houston, TX.

**Caselli N.** (2016). ASL-LEX: a tool for the the classroom. The Learning Center for the Deaf, Framingham, MA.

**Caselli N.** (2015). ASL-LEX: a tool for vocabulary instruction. Massachusetts Department of Elementary and Secondary Education Literacy Institute, Framingham, MA.

**Caselli N.,** Wilson, A. (2015). Guess what I’m thinking: The biological basis of Theory of Mind. Family Learning Weekend. American School for the Deaf, Hartford CT.

Gilliam, J. **Berlove, N.**,Fish, S., Smith, W., Scoggins, B., Burch, D., Winston, B. (2014). Certification Information. Presentation to the Registry of Interpreters for the Deaf and National Association of the Deaf Board Meeting, Hartford, CT.

**Berlove, N.**,Fish, S., Smith, W., Scoggins, B., Gilliam, J., Burch, D., Winston, B. (2014). Certification Forum. Registry of Interpreters for the Deaf Region I, Wakefield, MA.

Scoggins, B.,Fish, S., Smith, W., **Berlove, N.,** Gilliam, J., Burch, D., Winston, B. (2014). Certification Forum. Registry of Interpreters for the Deaf Region II, Atlanta, GA.

**Berlove, N.**, Fish, S., Smith, W., Scoggins, B., Gilliam, J., Burch, D., Winston, B. (2014). Certification Forum. Registry of Interpreters for the Deaf Region III, Lansing, MI.

**Berlove, N.**,Fish, S., Smith, W., Scoggins, B., Gilliam, J., Burch, D., Winston, B. (2014). Certification Forum. Registry of Interpreters for the Deaf Region IV, Des Moines, IA.

**Berlove, N.**,Fish, S., Smith, W., Scoggins, B., Gilliam, J., Burch, D., Winston, B. (2014). Certification Forum. Registry of Interpreters for the Deaf Region V, San Diego, CA.

**Berlove, N.** (2013). Deaf culture. Invited talk, Abnormal Psychology Course, Tufts University.

**Berlove, N.** (2012). Psycholinguistics of Sign Language. Invited Talk, Psychology of Language Course, Tufts University

**Berlove, N.** (2010, 2011). Sign language linguistics. Invited Talk, Linguistics Course, Tufts University.

**Berlove, N.** (2010, 2011). Bilingual Bimodalism. Invited talk, Bilingualism Course, Tufts University.

**Berlove, N**. (2010). NIC Interview: One Interpreter’s Strategies. Invited talk at Young Professional Interpreters Workshop*.* Boston, MA.

**Berlove, N**. (2010) NIC Interview Preparation. Presentation at the 25th annual CODA International conference. Boulder, CO.

**Berlove, N.** (2009). Bilingual Bimodalism. Invited talk, Deaf Studies Course, The College of the Holy Cross.

# Honors and Awards

ACM SIGACCESS 2019 Best Paper Award 2019

New England Machine Learning Accessibility Hackathon, People’s Choice Winner 2018

CODA International Outstanding Service Award 2018

NSF Vizzies People’s Choice Winner 2017

National Association of the Deaf Outstanding Service to Interpreting Award 2016

Investigator Tufts Collaborates Seed Grant $15,588 2015

“Structure of an emerging village sign language in Turkey”

Deborah Greenwald Fellowship 2014

Outstanding Graduate Student Contribution to Undergraduate Education 2014

Special Mention

Tufts University Graduate Student Research Competition 2014

Research Funds

TuftsIgnite Research Presentation Competition 2014

First Prize

Massachusetts Registry of Interpreters for the Deaf 2013

Research Funds

Massachusetts Registry of Interpreters for the Deaf 2013

Travel Funds

Tufts University Graduate School of Arts and Engineering 2012

Travel Funds

Tufts University Psychology Department 2011, 2012

Travel Funds

NSF Visual Language Visual Learning (VL2) 2009, 2010

Travel Funds

# Teaching Experience

**Graduate Courses:** ASL Structure, Pre-Practicum, Practicum Seminar, Advanced Seminar Learning and the Deaf

**Undergraduate Courses:** Selected Topics in Deaf Education, Field Experiences

**Teaching Assistant:** Experimental Psychology, Psychology of Language, Introduction to Linguistics, Introduction to Psychology, Experimental Social Psychology, Perception, Abnormal Psychology, Social Psychology

# Media Coverage

[NPR, KPCC, LAist](https://laist.com/news/education/lausd-deaf-hard-of-hearing-asl-bilingual-spoken-language-cochlear-implant-hearing-aid) June, 2022

[The Conversation](https://theconversation.com/an-interactive-visual-database-for-american-sign-language-reveals-how-signs-are-organized-in-the-mind-156741) April, 2021

[The Brink](http://www.bu.edu/articles/2021/worlds-largest-american-sign-language-database-makes-asl-even-more-accessible/) March, 2021

[Because Language](https://t.co/HxcIKgwBhS?amp=1) February, 2021

BU Today April, 2020

[Acadeafic](https://acadeafic.org/2019/07/11/deaf-children-need-language/) July, 2019

[WBUR](http://www.wbur.org/edify/2018/07/23/deaf-students-language-deprivation) July, 2018

Bostonia Magazine July, 2017

[WGBH Greater Boston](http://news.wgbh.org/2017/06/08/how-we-live/improving-sign-language-development-children-and-their-families) June, 2017

[The Washington Post](https://www.washingtonpost.com/national/health-science/stunning-photos-graphics-videos-and-illustrations-that-explain-difficult-subjects/2017/04/07/41e5db88-1968-11e7-bcc2-7d1a0973e7b2_story.html?utm_term=.9f8678dee1f5) April, 2017

[The Bend Bulletin](http://www.bendbulletin.com/nation/5217344-151/seeing-science-sign-language-rhymes) April, 2017

[The Hutchinson News](http://www.hutchnews.com/news/national_world_news/a-contest-reveals-that-if-you-look-at-the-words/article_9fcd7615-a786-5dba-80e0-507a95750ff8.html) April, 2017

[The Spectator](https://students.hamilton.edu/spectator/news-2015/p/nescac-news-april-20-2017/view) April, 2017

[The Tufts Daily](https://tuftsdaily.com/news/2017/04/27/tufts-professor-other-researchers-win-award-for-sign-language-database/) April, 2017

[TuftsNow](https://now.tufts.edu/articles/visual-dictionary-sign-language) April, 2017

[Popular Science](http://www.popsci.com/vizzies-winners-2017) March, 2017

[SDSU NewsCenter](http://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=76667) March, 2017

[BU Today](https://www.bu.edu/research/articles/asl-language-acquisition/) March, 2017

[DTV News](https://dpan.tv/series/dtv-news/episode/language-deprivation-early-detection-grant) February, 2017

[The Daily Moth](https://www.dailymoth.com/single-post/2017/02/20/NIH-Awards-503999-Grant-to-Study-Language-Deprivation-in-Deaf-Children) February, 2017

[DTV News](https://dpan.tv/series/between-the-lines/episode/e3-language-and-deprivation-part-i)  November, 2016

[TuftsNow](https://now.tufts.edu/articles/window-how-language-develops) March, 2014

Current TV November, 2007

# Professional Affiliations

American Educational Research Association

American Psychological Association

Association for Laboratory Phonology

CODA International

Massachusetts Association for the Deaf

MA Registry of Interpreters for the Deaf

National Association for the Deaf

Registry of Interpreters for the Deaf

Association for College Educators- Deaf and Hard of Hearing

Sign Language Linguistic Society

Psychonomic Society

# Certifications

Registry of Interpreters for the Deaf National Interpreting Certification- Master

# Employment

**High School AP Statistics Tutor** 10/14-5/15

**Deaf Student Services Coordinator and ASL Interpreter** 01/09-2012

Wellesley College

**Graduate Research Assistant to Dr. Marlon Kuntze** 03/08-09/10

NSF Visual Language Visual Learning Center VL2

Boston University

**Graduate Research Assistant to Dr. Robert Hoffmeister** 03/08-09/08

Boston University

**Freelance Interpreter** 09/06-7/2015

**Educational Interpreter and Teacher of the Deaf** 2005-2006

Olympia School District

**Teacher’s Aide** 2003-2004

Boards of Cooperative Educational Service

**Applied Behavioral Analysis Therapist**  2003

# Professional Service

Facilitator, Boston Public Schools Working Group on Deaf Education 2023

Chair, International Conference on Sign Language Acquisition 2019-present

Editorial Board Member, Applied Psycholinguistics 2022-2023

Co-Director AI for Education Initiative 2021-present

Senior Reviewer, Journal of Deaf Studies and Deaf Education 2022-present

Guidestar Creative Team 2019

Data Science Strategic Initiative 2019

Research Committee 2019-2021

Millie Brother Scholarship Co-Chair 2015-present

MCDHH DESE Steering Committee on Deaf Education 2015-2018

WCHED Research Strategic Initiatives Committee 2018-2019

New England Sign Language Festival Co-Chair 2016

Tufts Emerging Sign Languages Conference Co-Chair 2015

Registry of Interpreters for the Deaf Certification Council Interim Chair Spring 2015

Graduate Education Committee 2013-2015

Registry of Interpreters for the Deaf Certification Council 2014-2015

Registry of Interpreters for the Deaf IDP Region I Representative 2013-2014

Access Coordinator Tufts Cognitive Science Conference Fall 2012

Graduate Student Council Representative 2012-2013

Hosted a Deaf Awareness Event Spring 2012

Hosted a Community Forum on Cochlear Implants Fall 2011

Faculty Search Committee at Tufts University Fall 2011

CODA International Scholarship Committee Reviewer Spring 2009

Peer-Reviewed for National Science Foundation, Journal of Experimental Psychology: Learning, Memory, and Cognition; Phonology, Journal of Deaf Studies and Deaf Education, Cognitive Psychology, Eastern Psychological Association of Graduate Students, Applied Psycholinguistics, Frontiers in Psychology, Behavior Research Methods, Second Language Research, Journal of Speech, Language, and Hearing Research, Cognitive Development

Language and Cognition