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## Professional experience

June 2020-  
present

**NIH-National Institute on Deafness and Other Communication Disorders (NIDCD) Postdoctoral Researcher**

Center for Comparative & Evolutionary Biology of Hearing Trainee  
& Department of Hearing and Speech Sciences  
University of Maryland, College Park

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## Education

August 2020

**Ph.D., Linguistics**, University of California, Berkeley  
Keith Johnson & Sharon Inkelas (co-chairs)

2017

**M.A., Linguistics**, University of California, Berkeley

2015

**Master 1, Phonetics and Phonology**  
Université Sorbonne Nouvelle-Paris 3

2014

**M.A., Spanish**, Indiana University

## Additional training

2020

**Certificate of Teaching and Learning in Higher Education**  
University of California, Berkeley

2018-2019

**Learning to Talk Lab, Hearing and Speech Sciences Department**  
University of Maryland

Spring 2017

**Department of Linguistics**  
Stanford University

Spring 2011

**Study Abroad**  
Université Paul Valéry III, Montpellier, France

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## Support

2021-present

NIH-NIDCD F32 Individual Postdoctoral Training Grant. "How children with cochlear implants learn speech from their environments." **Cychosz, M.** (Principal Investigator). Edwards, J., & Newman, R (Co-Principal Investigators). Projected award period: 06/01/2021-05/31/2023. Total cost: \$137,999.

To be funded	NIH-NIDCD Loan Repayment Program. 'How children with cochlear implants learn speech from their environments.' <b>Cychosz, M.</b> (Principal Investigator). Estimated total funding: \$30,000.
2020-2021	NIH-NIDCD T32 DC000046 "Training grant on comparative and evolutionary biology of hearing." <b>Cychosz, M.</b> (Postdoctoral trainee). 06/01/2020-05/31/2021.

## Publications

### Refereed journals

Under revision	<b>Cychosz, M.</b> , Edwards, J., Bernstein Ratner, N., Torrington Eaton, C., & Newman, R. Acoustic-lexical characteristics of child-directed speech between 7 and 24 months and their impact on toddlers' phonological processing. [ <a href="#">pre-print</a> ]
Under revision	<b>Cychosz, M.</b> Language exposure predicts children's phonetic patterning: Evidence from language shift. [ <a href="#">pre-print</a> ]
Under revision	<b>Cychosz, M.</b> , Newman, R., Munson, B., & Edwards, J. Auditory feedback experience in phonetic development: Evidence from children with cochlear implants and their normal-hearing peers. [ <a href="#">pre-print</a> ]
Accepted	<b>Cychosz, M.</b> , Villanueva, A., & Weisleder, A. Efficient estimation of children's language exposure in two bilingual communities. <i>Journal of Speech, Language and Hearing Research</i> . [ <a href="#">pre-print</a> ]
To appear	<b>Cychosz, M.</b> The coarticulation-duration relationship in early Quechua speech. <i>Journal of Phonetics</i> . [ <a href="#">pre-print</a> ]
2021	<b>Cychosz, M.</b> , Cristia, A., Bergelson, E., Casillas, M., Baudet, G., Warlaumont, A. S., Scaff, C., Yankowitz, L., & Seidl, A. Canonical babble development in a large-scale, crosslinguistic corpus. <i>Developmental Science</i> . [ <a href="#">early view</a> ]
2021	<b>Cychosz, M.</b> , Munson, B., & Edwards, J. Practice and experience predict coarticulation in child speech. <i>Language Learning and Development</i> . [ <a href="#">pre-print</a> ]
2021	<b>Cychosz, M.</b> , Erskine, M., Munson, B., & Edwards, J. A lexical advantage in four-year-old children's word repetition. <i>Journal of Child Language</i> . 48, 31-54.
2020	<b>Cychosz, M.*</b> , Romeo, R., Soderstrom, M., Scaff, C., Ganek, H., Cristia, A., Casillas, M., de Barbaro, K., Bang, J., & Weisleder, A.* Longform recordings of everyday life: Ethics for best practices. <i>Behavior Research Methods</i> . 52, 1951-1969.

- 2019 **Cychosz, M.**, Edwards, J., Munson, B., & Johnson, K. (2019). Spectral and temporal measures of coarticulation in child speech. *Journal of the Acoustical Society of America-EL*, 146(6), EL516-EL522.
- 2018 **Cychosz, M.** Bilingual adolescent vowel production in the Parisian suburbs. *International Journal of Bilingualism*, 23(6), 1291-1315.

### Fully peer-reviewed conference proceedings

- 2019 **Cychosz, M.** Holistic lexical storage: Coarticulatory evidence from child speech. In *Proceedings of the 19<sup>th</sup> International Congress of Phonetic Sciences*. Melbourne, Australia.
- 2019 Lin, S.\*, **Cychosz, M.\***, Shen, A.\*, & Cibelli, E. The effects of phonetic training and visual feedback on novel contrast production. In *Proceedings of the 19<sup>th</sup> International Congress of Phonetic Sciences*. Melbourne, Australia.
- 2019 Schuller, B. W. Batliner, A. Bergler, C., Pokorny, F. B., Krajewski, J., **Cychosz, M.**, Vollmann, R., Roelen, S., Schnieder, S., Bergelson, E., Cristia, A., Seidl, A., Warlaumont, A., Yankowitz, L., Noth, E., Amiriparian, S., Hantke, S., & Schmitt, M. The INTERSPEECH 2019 Computational Paralinguistics Challenge: Styrian Dialects, Continuous Sleepiness, Baby Sounds & Orca Activity. In *Proceedings of Interspeech 2019*, Graz, Austria.
- 2018 **Cychosz, M.** Functional load and frequency as predictors of consonant emergence across five languages. In *Proceedings of the 40<sup>th</sup> Annual Meeting of the Cognitive Science Society*.
- 2017 **Cychosz, M.**, Gordon, A., Odimegwu, O., Connolly, O., Bellassai, J., & Roemmele, M. Effective Scenario Designs for Free-text Interactive Fiction. *Proceedings of the 10<sup>th</sup> International Conference on Interactive Digital Storytelling (ICIDS)*. Madeira, Portugal.
- 2017 Bellassai, J., Gordon, A., Roemmele, M., **Cychosz, M.**, Odimegwu, O., & Connolly, O. Unsupervised Text Classification for Natural Language Interactive Narratives. *Proceedings of the 10<sup>th</sup> International Workshop on Intelligent Narrative Technologies (INT10)*. Snowbird, Utah.

### Other conference proceedings

- 2018 **Cychosz, M.**, & Kalt, S. The contribution of functional load on children's vocalic development. In Gallagher, G., Gouskova, M., and Yin, S. (eds.), *Supplemental Proceedings of the 2017 Annual*

Meeting on Phonology. Washington, DC: Linguistic Society of America.

- 2018 **Cychosz, M.**, & Kalt, S. Language-specific sources of acoustic stability. In *Proceedings of the 42nd Annual Boston University Conference on Language Development*.
- 2016 Cheng, A., Faytak, M., & **Cychosz, M.** Language, race, and vowel space: Contemporary California English, *Proceedings of the 42nd Annual Meeting of the Berkeley Linguistics Society*. (Vol. 42). Berkeley, California.

### Datasets and other resources

- 2020 **Cychosz, M.\***, Romeo, R., Soderstrom, M., Scaff, C., Ganek, H., Cristia, A., Casillas, M., de Barbaro, K., Bang, J., & Weisleder, A.\* *Daylong Audio Recordings of Children's Linguistic Environments (DARCLE) Ethics Repository*. DOI 10.17605/OSF.IO/U3TFV.
- 2019 **Cychosz, M.**, Cristia, A., Bergelson, E., Casillas, M., Baudet, G., Warlaumont, A. S., Scaff, C., Yankowitz, L., & Seidl, A. *BabbleCor: A Crosslinguistic Corpus of Babble Development in Five Languages*. DOI 10.17605/OSF.IO/RZ4TX.
- 2018 **Cychosz, M.** *Cychosz HomeBank Corpus*, DOI 10.21415/YFYW-HE74. (2000+ hours of naturalistic daylong recordings of bilingual children learning South Bolivian Quechua and Spanish)
- 2016 Escobar, E., **Cychosz, M.** Hayes, D., Lapierre, M., Raskit, T. L., Michael, L., Nee, J. E., & Ramirez, E. *Berkeley Field Methods: South Bolivian Quechua, SCL 2016-13, Survey of California and Other Indian Languages*. University of California, Berkeley. DOI: 10.7297/X2T72FMM.

\* Denotes shared first authorship

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### Fellowships and Awards

- 2021 **Strategic Plan Presentation Winner** (for exemplifying international research related to children's development)  
Society for Research on Child Development
- 2019 **Raymond H. Stetson Scholarship in Phonetics and Speech Science**  
\$30,000, Acoustical Society of America
- 2019 **Indigenous Languages of Latin America (ILLA) Travel Grant**  
\$1,000, UC Berkeley

2019	<b>Oswalt Documenting Endangered Languages Grant</b> \$4,500, UC Berkeley
2018, 2019	<b>Student Travel Subsidy Award</b> , Acoustical Society of America
2018	<b>Student Technology Fund Grant</b> , UC Berkeley <i>to fund recording and field equipment for child language data collection in Bolivia</i>
2018	<b>Oswalt Documenting Endangered Languages Grant</b> \$5,000, UC Berkeley
Spring & Fall 2018	<b>Dissertation Completion Fellowship</b> , UC Berkeley
2017	<b>Society for Language Development Student Award</b> (awarded annually to the student demonstrating the most diverse research agenda)
2017	<b>Tinker Summer Field Research Grant</b> , UC Berkeley
2016	<b>Graduate Assembly Conference Travel Grant</b> , UC Berkeley
2016-17	<b>Foreign Language Area Studies Fellowship: Portuguese</b> Institute for European Studies, UC Berkeley
2015, 2016, 2018	<b>Department of Linguistics Travel Grant</b> , UC Berkeley
2015, 2017	<b>Student Technology Fund Grant</b> , UC Berkeley with Keith Johnson and Auburn Barron-Lutzross <i>to fund recording equipment for UC Berkeley Sociophonetic Area for Recording Conversational Language</i>
2013	<b>Summer Research Grant</b> , Indiana University
2012	<b>Phi Beta Kappa</b>
2011-2015, annually	<b>Kappa Alpha Theta academic scholarship</b>

## Presentations

### Invited Talks

May 2022	<b>Cychosz, M.</b> Mechanisms behind coarticulatory development in children. Invited talk part of special session "Perspectives on Long Distance Coarticulation" 183 <sup>rd</sup> Meeting of the Acoustical Society of America. Denver, CO.
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June 2021	<b>Cychosz, M.</b> Why kids are hard to understand: Implications for speech technology and children's development. Invited talk for the Acoustical Society of America Press Room. [An outlet that provides "efficient dissemination of information regarding...the field of acoustics to the news media, science writers, and other interested parties."]
June 2021	<b>Cychosz, M.</b> Reconsidering variability in child speech production. Invited talk part of special session "Ideas worth reconsidering in speech perception and production." 181 <sup>st</sup> Meeting of the Acoustical Society of America. [virtual]
March 2021	<b>Cychosz, M.</b> Environmental influences on speech development. University of Delaware Syntax, Neurolinguistics, and Phonetics/Phonology (SNaP) Meeting. Newark, DE.
October 2020	<b>Cychosz, M.</b> Environmental influences on children's phonetic development. UCLA Phonetics Seminar. Los Angeles, CA.
October 2019	<b>Cychosz, M.</b> Daylong audio recordings in linguistic research: Collection, management, and use. Presented for the Group on American Indian Languages, Berkeley, CA.
February 2019	<b>Cychosz, M.</b> Child learners and daylong recording methods: New challenges in linguistic fieldwork. Presented for the UC Berkeley Fieldwork Forum, Berkeley, CA.
April 2018	<b>Cychosz, M.</b> Functional load and frequency as predictors of consonant emergence across five languages. Presented for Georgetown University Linguistics Department, PhonLab. Washington, D.C.
March 2018	<b>Cychosz, M.</b> Cross-linguistic predictors of consonant emergence. Presented for University of Maryland, Learning to Talk lab. College Park, MD.
February 2018	<b>Cychosz, M.</b> Cross-linguistic predictors of consonant emergence. Presented for University of Maryland, Project on Children's Language Learning. College Park, MD.
September 2017	<b>Cychosz, M.</b> Language specificity in phonological development. Presented for University of California, Berkeley, Language and Cognitive Development Lab, Berkeley, CA.

### Conference presentations

2021	<b>Cychosz, M.,</b> Munson, B., & Edwards, J. Children talking also matters: Language practice and experience predict speech
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- production patterns. Talk to be given at the *15<sup>th</sup> Congress of the International Association for the Study of Child Language*.
- 2021 Kuzminykh, N...**Cychosz, M.**...Cristia, A. What day-long audio-recordings can tell us about children's vocal development. Talk given at the *Münster Conference on Linguistic Representations and Language Processing*.
- 2021 Villanueva, A., **Cychosz, M.**, & Weisleder, A. Dual Language Input from Adults and Older Children in Two Communities. Poster given at the *2021 Society for Research in Child Development Biennial Meeting*.
- 2021 Kuzminykh, N...**Cychosz, M.**,....Cristia, A. Effect of Age and Language Phonological Complexity on Children's Vocalizations. Flash paper given at the *2021 Society for Research in Child Development Biennial Meeting*.
- 2021 **Cychosz, M.** Language exposure predicts bilingual children's speech patterns. Talk given at the *95<sup>th</sup> Annual Meeting of the Linguistic Society of America*. San Francisco, CA.
- 2021 **Cychosz, M.** & Johnson, K. Children do not uniformly compensate for their vocal tract morphologies. Talk given at the *95<sup>th</sup> Annual Meeting of the Linguistic Society of America*. San Francisco, CA.
- 2021 Marin, N.,....**Cychosz, M.**,....Cristia, A. Out of the mouth of babes: The effects of phonological complexity on early language acquisition. Presented at the *Budapest CEU Conference on Cognitive Development*.
- 2020 **Cychosz, M.** Do children compensate for their vocal tract morphologies? Poster given at the *179<sup>th</sup> Meeting of the Acoustical Society of America*.
- 2020 **Cychosz, M.** Language exposure predicts bilingual children's speech patterns. Talk given at the *45<sup>th</sup> Annual Boston University Conference on Language Development*. Boston, MA.
- 2020 Villanueva, A., **Cychosz, M.**, & Weisleder, A. Dual language input from adults and older children in two communities. Poster given at the *Many Paths to Language Acquisition Workshop*, Nijmegen, The Netherlands.
- 2020 **Cychosz, M.**, Villanueva, A., & Weisleder, A. Efficient estimation of bilingual children's language exposure from daylong audio recordings. Poster given at the *Many Paths to Language Acquisition Workshop*, Nijmegen, The Netherlands.

- 2020 **Cychosz, M.**, Cristia, A, Bergelson, E., Casillas, M., Baudet, G., Warlaumont, A. S., Scaff, C., Yankowitz, L., & Seidl, A. Canonical babble development in a largescale, cross-linguistic corpus. Presentation given as part of symposium "Novel technologies to assess language development in infants." *The International Congress of Infant Studies*. Glasgow, UK.
- 2020 **Cychosz, M.** Coarticulation as a lens into children's lexical planning. Presented at the 94<sup>th</sup> Annual Meeting of the Linguistic Society of America, New Orleans, LA.
- 2020 **Cychosz, M.**, & Tracy, E. Response time judgments indicate linguistic bias to bilingual speech. Presented at the 94<sup>th</sup> Annual Meeting of the Linguistic Society of America, New Orleans, LA.
- 2019 **Cychosz, M.**, & Johnson, K. Novel acoustic measures of coarticulation reveal morphological planning in child speech. Presented at the 178<sup>th</sup> Meeting of the Acoustical Society of America, San Diego, CA.
- 2019 **Cychosz, M.**, Lin, S., & Johnson, K. Estimating bilingual children's language exposure from daylong audio recordings. *California Meeting on Psycholinguistics*. Santa Cruz, CA. [Unable to attend]
- 2019 **Cychosz, M.** Holistic lexical storage: evidence from child speech. Presented at the 19<sup>th</sup> International Congress of Phonetic Sciences, Melbourne, Australia.
- 2019 Lin, S.\*, **Cychosz, M.\***, Shen, A., & Cibelli, E. The effects of phonetic training and visual feedback on novel contrast production. Presented at the 19<sup>th</sup> International Congress of Phonetic Sciences. Melbourne, Australia.
- 2019 **Cychosz, M.**, Munson, B., & Edwards, J. Familiarity and practice predict autonomy in children's speech gestures. Presented at the Workshop on Modeling the Development of Speech Planning in Production. Macquarie University, Sydney Australia.
- 2019 **Cychosz, M.** Coarticulation varies by consonant identity in adult and child speech. Presented at the 177<sup>th</sup> Meeting of the Acoustical Society of America, Louisville, Kentucky.
- 2018 **Cychosz, M.**, & Tracy, E. Bilingual speech associations in phonetic representation. Presented at the 176<sup>th</sup> Meeting of the Acoustical Society of America, Victoria, BC, Canada.
- 2018 **Cychosz, M.**, Erskine, M., & Edwards, J. The lexical advantage: Four year old children learn words, not sounds. Presented at the 43<sup>rd</sup> Annual Boston University Conference on Language Development, Boston, MA.



- 2018      **Cychosz, M.** Functional load and frequency as predictors of consonant emergence across five languages. Presented at the *40<sup>th</sup> Annual Meeting of the Cognitive Science Society*, Madison, WI.
- 2018      **Cychosz, M.** Cross-linguistic predictors of consonant emergence, Presented at the *International Child Phonology Conference*, Crete, Greece.
- 2017      **Cychosz, M.** & Kalt, S. Language-specific sources of acoustic stability in phonological development. Presented at the *42<sup>nd</sup> Boston University Conference on Language Development*, Boston, MA.
- 2017      **Cychosz, M.** & Kalt, S. The contribution of functional load on children's phonological development. Presented at the *2017 Annual Meeting on Phonology*, New York, NY.
- 2017      Daidone, D., Lidster, R., Kruger, F., & **Cychosz, M.** New methods for predicting perceptual discriminability of non-native contrasts. Presented at the *9<sup>th</sup> Annual Pronunciation in Second Language Learning & Teaching (PSLLT) Conference*.
- 2017      **Cychosz, M.**, & Johnson, K. Social evaluation addresses actuation in sound change. Presented at the *4<sup>th</sup> Workshop on Sound Change*. Edinburgh, Scotland.
- 2017      Lin, S., **Cychosz, M.**, Shen, A., & Cibelli, E. Instructional and biofeedback training in L2 contrast learning. Presented at the *91<sup>st</sup> Annual Meeting of the Linguistic Society of America*, Austin, TX.
- 2016      **Cychosz, M.** Sources of variation in an emerging Parisian French vernacular. Presented at *New Ways of Analyzing Variation 45*, Vancouver, Canada.
- 2016      **Cychosz, M.**, & Garrote Salazar, M. Acquisition of the passive in Spanish-learning children: Constructing the syntactic skeleton. Presented at the *41<sup>st</sup> Annual Boston University Conference on Language Development*. Boston, MA. [unable to attend]
- 2016      **Cychosz, M.** Identity and adolescence as factors in L2 phonological acquisition. Presented at *New Sounds: 8<sup>th</sup> International Conference on Second-Language Speech*, Aarhus, Denmark.
- 2016      Cheng, A., Faytak, M., & **Cychosz, M.** Language, race, and vowel space: Contemporary California English. Presented at *Berkeley Linguistics Society 42*, Berkeley, CA.

2015 **Cychosz, M.** Variation in the signal: Social correlation in a completed sound change. Presented at *New Ways of Analyzing Variation 44*, Toronto, Canada.

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## Press

2021 **Newswise.** Variabilities in Children's Speech Perhaps Not So Concerning. <https://www.newswise.com/articles/variabilities-in-children-s-speech-perhaps-not-so-concerning>

2021 **American Association for the Advancement of Science (AAAS).** Variabilities in children's speech perhaps not so concerning. [https://www.eurekalert.org/pub\\_releases/2021-06/asoa-vic060321.php](https://www.eurekalert.org/pub_releases/2021-06/asoa-vic060321.php)

2021 **News-Medical.net.** Reconsidering the variations in children's speech. <https://www.news-medical.net/news/20210609/Reconsidering-the-variations-in-childrens-speech.aspx>

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## Teaching Experience

### University of Maryland, College Park: Tutorials

Winter 2021 **Intermediate/advanced R**, Primary Instructor

Winter 2021 **Practical tips for R**, Primary Instructor

### UC Berkeley: Courses

Spring 2020 **Linguistics: Phonological Development**, Primary Instructor

Fall 2019 **Linguistics: Phonetics**, Graduate student instructor  
Primary instructor: Susan Lin

Spring 2019 **Psychology: Language Development**, Graduate student instructor  
Primary Instructor: Mahesh Srinivasan

Summer 2018 **Linguistics/Psychology: Language Development**, Primary Instructor

Fall 2017 **Linguistics: Historical Linguistics**, Graduate student instructor  
Primary Instructor: Andrew Garrett

### Indiana University: Courses

Spring 2014 **Spanish 200**, primary instructor

Fall 2013 **Spanish 105**, primary instructor

Spring 2013

Fall 2012

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## Advising/Mentoring

### UC Berkeley Linguistics Research Apprentice Program (LRAP)

2020	Adela Arriola
2020	Hitomi Torng
2019-2020	Karina Fong-Hirschfelder
2019-2020	Sierra Adachi
2019-2020	Rachel Elia
2019-2020	Kiran Girish
2019	Sonnet Phelps
2017-2018	Benjamin Papadopoulos
2016-2017	Sofea Dil

### University of Maryland

2021-present	Ria Garg
2020-2021	Kavya Ganesan, Kaliyah Gowing
2018-present	Michele Liquori
2018-2019	Becca Higgins

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## Other Professional Experience

Summer 2016	<b>Visiting Research Assistant</b> , Institute for Creative Technologies University of Southern California
2014-2015	<b>English Language Teaching Assistant</b> , Lycée Darius Milhaud Le Kremlin Bicêtre, France
Summer 2012	<b>Machine Translation Intern</b> , Reverso-Softissimo Paris, France

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## Academic Service

**Manuscript Reviewing:** *Behavior Research Methods*,  
*Developmental Science*, *Ear and Hearing*, *Journal of Child Language*

**Conference Reviewing:** Linguistic Society of America Annual Meeting, Cognitive Science Society, Many Paths to Language Acquisition, Berkeley Linguistics Society

**Adhoc Grant Reviewing:** UK Medical Research Council

## Other

2021	<b>Co-organizer</b> LangVIEW International Summer/Winter School on Language Acquisition, Pedagogical Team
2021	<b>Member</b> University of Maryland Language Science Center taskforce on undergraduate education
2020	<b>Co-organizer</b> Berkeley Linguistics Society Workshop (BLS 2020): Phonological Representations.
2019	<b>Co-organizer</b> 10 <sup>th</sup> Annual Computational Paralinguistics Challenge (ComParE); Interspeech 2019
2017-present	<b>Pre-PI Representative and pre-PI group organizer</b> , DARCLE Board (Daylong Audio Recordings of Children's Linguistic Environments)
2017	<b>Organizer</b> , Berkeley Women in Linguistics Working Group
2017	<b>Conference Organizer</b> , Berkeley Linguistics Society (BLS42)
2017	<b>Conference Organizer</b> , Institute for European Studies Conference
2016-2017	<b>Organizer</b> , Berkeley Phonetics & Phonology Phorum
2015-2017	<b>Alternate Representative</b> , Graduate Student Assembly, UC Berkeley

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## Skills

Software	Python, R, SQL, shell scripting, Praat (analysis, scripting), OpenSesame, LaTeX, Audacity, CLAN, Fieldwork tools (ELAN, FLEEx)
Hardware	Ultrasound (Edgetrak), Language ENvironment Analysis (LENA)

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## Languages

Native	<b>English</b>
Near-native	<b>Spanish, French</b>
Conversational	<b>Portuguese</b>
Reading	<b>Catalan, Romanian</b> (undergraduate coursework)
Research	<b>South Bolivian Quechua</b> (coursework 2016-2017; fieldwork 2017-present)
	<b>Ecuadorian Quechua, Yucatec Maya</b> (graduate coursework)

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## Professional Affiliations

**Acoustical Society of America**  
**Linguistic Society of America**  
**International Congress of Infant Studies**  
**International Phonetic Association**  
**Phi Beta Kappa**