Meg Cychosz

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Professional experience

June 2020present 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

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

2012 B.A., Spanish, B.A., English, B.A., French, Butler University

Additional training

2020 Certificate of Teaching and Learning in Higher Education

University of California, Berkeley

Spring 2017 **Department of Linguistics**

Stanford University

Spring 2011 Study Abroad

Université Paul Valéry III, Montpellier, France

Support

Current

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-Investigators). Projected award period:

06/01/2021-05/31/2023. Total cost: \$137,999.

2021-present NIH-NIDCD Extramural Clinical Loan Repayment Program. "How children with cochlear implants learn speech from their

environments." **Cychosz, M.** (Principal Investigator). Edwards, J., & November B. (Co. Investigators). Total estimated past: \$20,000

Newman, R (Co-Investigators). Total estimated cost: \$30,000.

Other

Awarded NSF-SBE Postdoctoral research fellowship (SPRF). Cychosz, M.

(Principal Investigator). Edwards, J., & Newman, R (Co-

Investigators). Total cost: \$137,169. [Declined due to overlap.]

2020-2021 NIH-NIDCD T32 DC000046 "Training grant on comparative and

evolutionary biology of hearing." **Cychosz, M.** (Postdoctoral

trainee). 06/01/2020-05/31/2021.

Publications

Refereed journals

Accepted Cychosz, M. Language exposure predicts children's phonetic

patterning: Evidence from language shift. Language. [pre-print]

2021 **Cychosz, M.,** Newman, R., Munson, B., & Edwards, J. Auditory

feedback experience in the development of phonetic

development: Evidence from children with cochlear implants and their normal-hearing peers. Journal of the Acoustical Society of

America. [paper]

2021 **Cychosz, M.**, 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. Frontiers in Psychology: Developmental

Psychology. 12, 712647. [paper]

2021 **Cychosz, M.**, Villanueva, A., & Weisleder, A. Efficient estimation of

children's language exposure in two bilingual communities. Journal of Speech, Language and Hearing Research. 64(10), 3843-3866.

<u>paper</u>

2021 **Cychosz, M.,** Munson, B., & Edwards, J. Practice and experience

predict coarticulation in child speech. Language Learning and

Development. 17(4), 366-396. [paper]

2021 **Cychosz, M.** The coarticulation-duration relationship in early

Quechua speech. Journal of Phonetics. 87, 101052. [paper]

2021 Cychosz, M., Cristia, A, Bergelson, E., Casillas, M., Baudet, G., Warlaumont, A. S., Scaff, C., Yankowitz, L., & Seidl, A. Vocal development in a large-scale, crosslinguistic corpus. Developmental Science, 24(5), e13090, [paper] 2021 Cychosz, M., Erskine, M., Munson, B., & Edwards, J. A lexical advantage in four-year-old children's word repetition. Journal of Child Language. 48(1), 31-54. [pubmed] 2020 Cychosz, M.*, 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. Behavior Research Methods. 52, 1951-1969. [paper] 2019 Cychosz, M., Edwards, J., Munson, B., & Johnson, K. 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. Manuscripts under review Under review Cychosz, M.*, & Cristia, A.* Using big data from long-form recordings to study development and optimize societal impact. [pre-print] Under review Cychosz, M. & Newman, R. Units of processing in perceptual normalization for speaking rate. [pre-print] Fully peer-reviewed conference proceedings 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 19th 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 40th 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. <i>Proceedings of the 10th International Conference on Interactive Digital Storytelling (ICIDS)</i> . Madeira, Portugal.
2017	Bellassai, J., Gordon, A., Roemmele, M., Cychosz, M. , Odimegwu, O., & Connolly, O. Unsupervised Text Classification for Natural Language Interactive Narratives. <i>Proceedings of the 10th International Workshop on Intelligent Narrative Technologies (INT10)</i> . 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 <i>Proceedings of the 42nd Annual Boston University Conference on Language Development</i> .
2016	Cheng, A., Faytak, M., & Cychosz, M . Language, race, and vowel space: Contemporary California English, <i>Proceedings of the 42nd Annual Meeting of the Berkeley Linguistics Society</i> . (Vol. 42). Berkeley, California.
	Datasets and corpora
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 South Bolivian Quechua and Spanish speech)
2016	Escobar, E., Cychosz, M. Hayes, D., Lapierre, M., Raskit, T. L., Michael, L., Nee, J. E., & Remirez, E. <i>Berkeley Field Methods: South Bolivian Quechua, SCL 2016-13</i> , Survey of California and Other

Indian Languages. University of California, Berkeley. DOI: 10.7297/X2T72FMM.

Published repositories (scripts + tutorials)

Cychosz, M. Categorize app. GitHub Repository. 2020

github.com/megseekosh/Categorize_app_v2

Cychosz, M. Triple formant tracker. Github Repository. 2020

github.com/megseekosh/vocal_tract_vowel

Followships and Awards

	Fellowships and Awards
2021	Young Investigator Travel Award \$500, Women in Acoustics & Acoustical Society of America
2021	Open Access Publishing Award \$1,475, University of Maryland
2021	Strategic Plan Presentation Winner (for exemplifying international research related to children's development)
2019	Society for Research on Child Development 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	Oswalt Documenting Endangered Languages Grant \$4,500, UC Berkeley
2018, 2019	Student Travel Subsidy Award Acoustical Society of America
2018	Student Technology Fund Grant, UC Berkeley to fund recording and field equipment for child language data collection in Bolivia
2018	Oswalt Documenting Endangered Languages Grant \$5,000, UC Berkeley
Spring & Fall 2018	Dissertation Completion Fellowship UC Berkeley
2017	Society for Language Development Student Award (awarded annually to the student demonstrating the most diverse research agenda)
2017	Tinker Summer Field Research Grant UC Berkeley
2016	Graduate Assembly Conference Travel Grant UC Berkeley
2016-17	Foreign Language Area Studies Fellowship: Portuguese Institute for European Studies, UC Berkeley
2015, 2016, 2018	Department of Linguistics Travel Grant UC Berkeley
2015, 2017	Student Technology Fund Grant

^{*} Denotes shared first authorship

UC Berkeley

with Keith Johnson and Auburn Barron-Lutzross to fund recording equipment for UC Berkeley Sociophonetic Area for Recording Conversational Language

2013 Sum: 2012 Phi B 2011-2015, Kap;

annually

Summer Research Grant, Indiana University

Phi Beta Kappa

Kappa Alpha Theta academic scholarship

Presentations

Invited Talks (external)

May 2022 **Cychosz, M.** Mechanisms behind coarticulatory development in

children. Invited talk part of special session "Perspectives on Long Distance Coarticulation" 183rd Meeting of the Acoustical Society of

America. Denver, CO.

June 2021 **Cychosz, M.** 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 **Cychosz, M.** Reconsidering variability in child speech production.

Invited talk part of special session "Ideas worth reconsidering in speech perception and production." 181st Meeting of the

Acoustical Society of America. [virtual]

March 2021 **Cychosz, M.** Environmental influences on speech development.

University of Delaware Syntax, Neurolinguistics, and Phonetics/Phonology (SNaP) Meeting. Newark, DE.

October 2020 **Cychosz, M.** Environmental influences on children's phonetic

development. UCLA Phonetics Seminar. Los Angeles, CA.

April 2018 Cychosz, M. Functional load and frequency as predictors of

consonant emergence across five languages. Presented for Georgetown University Linguistics Department, PhonLab.

Washington, D.C.

March 2018 **Cychosz, M.** Cross-linguistic predictors of consonant emergence.

Presented for University of Maryland, Learning to Talk lab. College

Park, MD.

February 2018 Cychosz, M. Cross-linguistic predictors of consonant emergence.

Presented for University of Maryland, Project on Children's

Language Learning. College Park, MD.

Invited Talks (internal)

October 2019 Cychosz, M. Daylong audio recordings in linguistic research: Collection, management, and use. Presented for the Group on American Indian Languages, Berkeley, CA. February 2019 Cychosz, M. Child learners and daylong recording methods: New challenges in linguistic fieldwork. Presented for the UC Berkeley Fieldwork Forum, Berkeley, CA. Cychosz, M. Language specificity in phonological development. September 2017 Presented for University of California, Berkeley, Language and Cognitive Development Lab, Berkeley, CA. Conference presentations 2022 Cychosz, M. Language exposure and phonological working memory development. Talk to be given at the 96th Annual Meeting of the Linguistic Society of America. Washington, D.C. 2021 Cychosz, M. Nonword repetition patterns in a culture with infrequent child-directed speech. Poster to be given at the 46th Annual Boston University Conference on Language Development. Boston, MA. 2021 Cychosz, M., Munson, B., & Edwards, J. Children talking also matters: Language practice and experience predict speech production patterns. Talk given at the 15th Congress of the International Association for the Study of Child Language. 2021 Kuzminykh, N...Cychosz, M...Cristia, A. What day-long audiorecordings 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 95th 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 95th 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 179th Meeting of the Acoustical Society of America. 2020 Cychosz, M. Language exposure predicts bilingual children's speech patterns. Talk given at the 45th 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 94th 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 94th 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 178th 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 th 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 th 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 th Meeting of the Acoustical Society of America, Louisville, Kentucky.
2018	Cychosz, M. , & Tracy, E. Bilingual speech associations in phonetic representation. Presented at the 176 th 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 rd 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 th Annual Meeting of the Cognitive Science Society, Madison, WI.
2018	Cychosz, M. Cross-linguistic predictors of consonant emergence, Presented at the <i>International Child Phonology Conference</i> , Crete, Greece.
2017	Cychosz, M . & Kalt, S. Language-specific sources of acoustic stability in phonological development. Presented at the 42 nd 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 9th 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 th 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 91st 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 st 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: 8th 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 <i>Berkeley Linguistics Society</i> 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.
	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
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

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

Psychology: Language Development, Graduate student instructor Spring 2019

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

Advising/Mentoring

UC Berkeley

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, Aeshah Tawfik, Farheen Ahmed
2020-2021	Kavya Ganesan, Kaliyah Gowing
2018-present	Michele Liquori
2018-2019	Becca Higgins

	Other Professional Experience
Summer 2016	Visiting Research Assistant (Computer Science) Institute for Creative Technologies, University of Southern California
2014-2015	English Language Teaching Assistant Lycée Darius Milhaud, Le Kremlin Bicêtre, France
Summer 2012	Machine Translation Intern Reverso-Softissimo, Paris, France
	Academic Service
	Manuscript Reviewing: Annals of the New York Academy of Sciences, Behavior Research Methods, Bilingualism: Language and Cognition, Child Development, Developmental Science, Ear and Hearing, Frontiers in Psychology: Language Sciences, Journal of Child Language, Journal of Phonetics
	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, Research Grants Council of Hong Kong
	Organizing
2022	Co-organizer with Katie Franich: Linguistic Society of America Symposium on "Suitcase phonetics: Creating a portable phonetics laboratory" at the 2022 Linguistic Society of America Meeting
2021	Co-organizer LangVIEW International Summer/Winter School on Language Acquisition, Pedagogical Team
2020	Co-organizer Berkeley Linguistics Society Workshop (BLS 2020): Phonological Representations.
2019	Co-organizer 10 th Annual Computational Paralinguistics Challenge (ComParE): Interspeech 2019
2017 2017 2017 2016-2017	Organizer, Berkeley Women in Linguistics Working Group Conference Organizer, Berkeley Linguistics Society (BLS42) Conference Organizer, Institute for European Studies Conference Organizer, Berkeley Phonetics & Phonology Phorum

Leadership

2021-2024 **Appointed Member**, Acoustical Society of America Speech

Communication Technical Committee

2017-present Board member and pre-PI group organizer, DARCLE

(Daylong Audio Recordings of Children's Linguistic Environments)

Committees/Other

2021 **Member** University of Maryland Language Science Center

taskforce on undergraduate education

2020 **Session Chair (Phonetics)**, Linguistics Society of America 2021

Annual Meeting

2015-2017 Alternate Representative, Graduate Student Assembly, UC Berkeley

Skills

Software Python, R, SQL, shell scripting, Praat (analysis, scripting), Git,

OpenSesame, LaTeX, Audacity, CLAN, Fieldwork tools (ELAN, FLEx)

Hardware Eyetracking (EyeLink 1000), Ultrasound (Edgetrak),

Wearable technologies (LENA, etc.)

Languages

Native English

Near-native Spanish, French Conversational Portuguese

Reading Catalan, Romanian (undergraduate coursework)
Research South Bolivian Quechua (coursework 2016-2017;

fieldwork 2017-present)

Ecuadorian Quechua, Yucatec Maya (graduate coursework)

Professional Affiliations

Acoustical Society of America Linguistic Society of America International Phonetic Association

Phi Beta Kappa