# 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., & 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

**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.

[paper]

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. & Newman, R. Units of processing in perceptual normalization for speaking rate. [pre-print] **Book chapters** 2022 Cychosz, M.\*, & Cristia, A.\* Using big data from long-form recordings to study development and optimize societal impact. In Advances in Child Development and Behavior, ed. J.J. Lockman & R. Gilmore. Vol. 62, pp. 1-36. Cambridge, MA: Academic Press. [pubmed] 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 Paralinquistics Challenge: Styrian Dialects, Continuous Sleepiness, Baby Sounds & Orca Activity. In Proceedings of Interspeech 2019, Graz, Austria.

2018	<b>Cychosz, M.</b> Functional load and frequency as predictors of consonant emergence across five languages. In <i>Proceedings of the 40th Annual Meeting of the Cognitive Science Society.</i>
2017	<b>Cychosz, M.</b> , 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., <b>Cychosz, M.</b> , 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	<b>Cychosz, M.</b> , & 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	<b>Cychosz, M.</b> , & 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., & <b>Cychosz, M</b> . Language, race, and vowel space: Contemporary California English, <i>Proceedings of the 42</i> <sup>nd</sup> Annual Meeting of the Berkeley Linguistics Society. (Vol. 42). Berkeley, California.
	Datasets and corpora
2020	<b>Cychosz, M.*,</b> 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	<b>Cychosz, M.,</b> 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	<b>Cychosz, M.</b> 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., <b>Cychosz, M.</b> Hayes, D., Lapierre, M., Raskit, T. L., Michael, L., Nee, J. E., & Remirez, 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.
	Published repositories (scripts + tutorials)
2020	<b>Cychosz, M.</b> Categorize app. GitHub Repository. github.com/megseekosh/Categorize_app_v2
2020	<b>Cychosz, M.</b> Triple formant tracker. Github Repository. github.com/megseekosh/vocal_tract_vowel
	* Denotes shared first authorship
	Fellowships and Awards
2021	Young Investigator Travel Award \$500, Women in Acoustics & Acoustical Society of America
2021	Open Access Publishing Award
2021	\$1475, University of Maryland  Strategic Plan Presentation Winner (for exemplifying international research related to children's development)  Society for Research on Child Development
2019	Society for Research on Child Development  Raymond H. Stetson Scholarship in Phonetics and Speech Science
2019	\$30,000, Acoustical Society of America Indigenous Languages of Latin America (ILLA) Travel Grant
2019	\$1000, UC Berkeley  Oswalt Documenting Endangered Languages Grant \$4500, UC Berkeley
2018, 2019	Student Travel Subsidy Award
2018	Acoustical Society of America  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 \$5000, UC Berkeley
Spring & Fall 2018	Dissertation Completion Fellowship  UC Berkeley
2017	Society for Language Development Student Award  (awarded annually to the student demonstrating
2017	the most diverse research agenda)  Tinker Summer Field Research Grant  UC Berkeley
2016	Graduate Assembly Conference Travel Grant
2016-17	UC Berkeley 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

**UC** Berkeley

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

for Recording Conversational Language

2013 **Summer Research Grant**, Indiana University

2012 Phi Beta Kappa

2011-2015, Kappa Alpha Theta academic scholarship annually

#### **Presentations**

**Invited Talks (external)** 

May 2022 Cychosz, M. "What long-distance coarticulation can tell us about

coarticulatory development." Invited talk part of special session "Perspectives on Long Distance Coarticulation" 183<sup>rd</sup> Meeting of

the Acoustical Society of America. Denver, CO.

April 2022 **Cychosz, M.** "Coarticulation, compensation, and phonetic

change." ZAS Berlin: Phonetics & Phonology. Berlin, Germany.

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. September 2017 **Cychosz**, **M**. Language specificity in phonological development. Presented for University of California, Berkeley, Language and Cognitive Development Lab, Berkeley, CA. Conference presentations 2022 Villanueva, A., Cychosz, M., & Weisleder, A. "Dual Language Input from Adults and Older Children in Two Communities." Poster to be given at the Special Topic Meeting: Construction of the 'Other': Development, Consequences, and Applied Implications of Prejudice and Discrimination. Society for Research in Child Development. Rio Grande, Puerto Rice. 2022 Villanueva, A., Cychosz, M., & Weisleder, A. Do bilingual infants experience each language in distinct interactional contexts? Presentation to be given as part of symposium "Children's exposure to and use of socially meaningful variation in language." Cognitive Development Society. Madison, WI. Cychosz, M. Language exposure and phonological working 2022 memory development. Talk given at the 96th Annual Meeting of the Linguistic Society of America. Washington, D.C. 2021 Cychosz, M., Edwards, J. R., Bernstein Ratner, N., Torrington Eaton, C., & Newman, R. Disentangling acoustic measures from lexical statistics in child-directed speech. Poster given at the 181st Meeting of the Acoustical Society of America, Seattle, WA. 2021 Cychosz, M. Nonword repetition patterns in a culture with

infrequent child-directed speech. Poster given at the 46th Annual

	MA.  MA:
2021	<b>Cychosz, M.,</b> Munson, B., & Edwards, J. Children talking also matters: Language practice and experience predict speech production patterns. Talk given at the 15 <sup>th</sup> Congress of the International Association for the Study of Child Language.
2021	Kuzminykh, N <b>Cychosz, M</b> 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., <b>Cychosz, M.</b> , & 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 <b>Cychosz, M</b> .,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	<b>Cychosz, M.</b> 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	<b>Cychosz, M</b> . & 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., <b>Cychosz, M.</b> ,Cristia, A. Out of the mouth of babes: The effects of phonological complexity on early language acquisition. Presented at the <i>Budapest CEU Conference on Cognitive Development</i> .
2020	<b>Cychosz, M.</b> Do children compensate for their vocal tract morphologies? Poster given at the 179 <sup>th</sup> Meeting of the Acoustical Society of America.
2020	<b>Cychosz, M.</b> 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., <b>Cychosz, M.</b> , & Weisleder, A. Dual language input from adults and older children in two communities. Poster given at the <i>Many Paths to Language Acquisition Workshop</i> , Nijmegen, The Netherlands.
2020	Cychosz, M., Villanueva, A., & Weisleder, A. Efficient estimation of

Boston University Conference on Language Development. Boston,

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 19th 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 19th 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 177th Meeting of the Acoustical Society of America, Louisville, Kentucky. 2018 Cychosz, M., & Tracy, E. Bilingual speech associations in phonetic representation. Presented at the 176th Meeting of the Acoustical Society of America, Victoria, BC, Canada.

bilingual children's language exposure from daylong audio recordings. Poster given at the Many Paths to Language



2016	Cheng, A., Faytak, M., & <b>Cychosz, M</b> . Language, race, and vowel space: Contemporary California English. Presented at <i>Berkeley Linguistics Society 42</i> , Berkeley, CA.
2015	<b>Cychosz, M.</b> Variation in the signal: Social correlation in a completed sound change. Presented at New Ways of Analyzing Variation 44, Toronto, Canada.
	Press
2021	<b>Newswise.</b> Variabilities in Children's Speech Perhaps Not So Concerning. <a href="https://www.newswise.com/articles/variabilities-in-children-s-speech-perhaps-not-so-concerning">https://www.newswise.com/articles/variabilities-in-children-s-speech-perhaps-not-so-concerning</a>
2021	American Association for the Advancement of Science (AAAS).  Variabilities in children's speech perhaps not so concerning. <a href="https://www.eurekalert.org/pub releases/2021-06/asoa-vic060321.php">https://www.eurekalert.org/pub releases/2021-06/asoa-vic060321.php</a>
2021	<b>News-Medical.net.</b> Reconsidering the variations in children's speech. <a href="https://www.news-medical.net/news/20210609/Reconsidering-the-variations-in-childrens-speech.aspx">https://www.news-medical.net/news/20210609/Reconsidering-the-variations-in-childrens-speech.aspx</a>
	Teaching Experience
	University of Maryland, College Park: Tutorials & Workshops
Winter 2022 Winter 2022 Winter 2021 Winter 2021	RMarkdown for intermediate/advanced R users, Primary Instructor Getting started with grant writing, Workshop leader Intermediate/advanced R, Primary Instructor Practical tips for R, Primary Instructor
	UC Berkeley: Courses
Spring 2020 Fall 2019	Linguistics: Phonological Development, Primary Instructor Linguistics: Phonetics, Graduate student instructor Primary instructor: Susan Lin
Spring 2019	Psychology: Language Development, Graduate student instructor Primary Instructor: Mahesh Srinivasan
Summer 2018 Fall 2017	Linguistics/Psychology: Language Development, Primary Instructor Linguistics: Historical Linguistics, Graduate student instructor Primary Instructor: Andrew Garrett
	Indiana University: Courses
Spring 2014	Spanish 200, primary instructor

Fall 2013
Spring 2013
Fall 2012

#### **Spanish 105**, primary instructor

# 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 Couldborn C

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, Diachronica, 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	<b>Co-organizer</b> 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	<b>Co-organizer</b> LangVIEW International Summer/Winter School on Language Acquisition, Pedagogical Team
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 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 2017-present	Appointed Member, Acoustical Society of America Speech Communication Technical Committee Board member and pre-Pl group organizer, DARCLE (Daylong Audio Recordings of Children's Linguistic Environments)
	Committees/Other
2021	<b>Member</b> University of Maryland Language Science Center taskforce on undergraduate education
2020	Session Chair (Phonetics), Linguistics Society of America 2021
2015-2017	Annual Meeting <b>Alternate Representative</b> , 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