

CHRIS HEFFNER

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850 Bolton Rd, U-1085, Storrs, CT 06269

EDUCATION AND TRAINING

Postdoctoral Fellow University of Connecticut, Storrs, CT Advisor: Emily Myers (Hearing and Speech Sciences, Psychology)	08/2017 – present
PhD, Neuroscience and Cognitive Science MS, Neuroscience and Cognitive Science University of Maryland, College Park, MD Advisors: Bill Idsardi (Linguistics); Rochelle Newman (Hearing and Speech Sciences) Other Committee Members: Ellen Lau (Linguistics); Bob Slevc (Psychology); Catherine Carr (Biology, Dean’s Representative) Dissertation Title: “Language Science Meets Cognitive Science: Categorization and Adaptation”	05/2017 05/2015
Visiting Scholar The Ohio State University, Columbus, OH	05/2016 – 07/2016
BA (Linguistics) and BS (Psychology), With High Honors Michigan State University, East Lansing, MI Thesis Advisors: Karthik Durvasula (Linguistics); Laura Dille, Devin McAuley (Psychology, Honors) Thesis Titles: “Languages with Opacity are Opaque: A Failure to Replicate” (Linguistics); “Going the Distance: The Effects of Distal and Global Speech Rate on Word Segmentation” (Psychology)	05/2012

AWARDS

EXTERNAL

SBE Postdoctoral Research Fellowship; National Science Foundation	08/2017 – 07/2019
Doctoral Dissertation Research Improvement Award; National Science Foundation	03/2017 – 03/2019
Graduate Research Fellowship; National Science Foundation	09/2013 – 08/2016
Graduate Research Fellowship Honorable Mention; National Science Foundation	04/2012

INTERNAL

<u>William Hodos Dissertation Assistantship;</u> Program in Neuroscience and Cognitive Science, University of Maryland, College Park	01/2017 – 05/2017
Outstanding Student Award, Program in Neuroscience and Cognitive Science, University of Maryland, College Park	05/2016
Doctoral Dissertation Dean’s Research Fellowship; College of Behavioral and Social Sciences, University of Maryland, College Park	05/2016
<u>Research Training Award;</u> Program in Neuroscience and Cognitive Science, University of Maryland, College Park	02/2016
<u>Jacob Goldhaber Travel Fellowship;</u> Graduate School, University of Maryland, College Park	09/2015

	07/2016
Graduate Fellow ; Maryland Language Science Center, University of Maryland, College Park	07/2013 – 05/2017
Flagship Fellowship ; Graduate School, University of Maryland, College Park	08/2012 – 05/2017
Dean's Fellowship ; Program in Neuroscience and Cognitive Science, University of Maryland, College Park	08/2012
Alumni Distinguished Scholarship ; Honors College, Michigan State University	08/2008 – 05/2012

PUBLICATIONS

JOURNAL ARTICLES

- Liter, A., **Heffner, C. C.**, & Schmitt, C. (accepted for publication). The interpretation of plural morphology and (non-)obligatory number marking: An argument from artificial language learning. *Language Learning and Development*.
- Heffner, C. C.**, Newman, R. S., & Idsardi, W. J. (2017). Support for context effects on segmentation and segments depends on the context. *Attention, Perception, & Psychophysics*, 79(3): 964-988.
- Neufeld, C., Kramer, S. E., Lapinskaya, N., **Heffner, C. C.**, Malko, A., & Lau, E. F. (2016). The electrophysiology of basic phrase building. *PLoS ONE*, 11(10): e0158446.
- Heffner, C. C.**, & Slevc, L. R. (2015). Prosodic structure as a parallel to musical structure. *Frontiers in Psychology*, 6, 1962.
- Morrill, T. H., Baese-Berk, M., **Heffner, C. C.**, & Dilley, L. C. (2015). Interactions between distal speech rate, linguistic knowledge, and speech environment. *Psychonomic Bulletin and Review*, 22(5): 1451-1457.
- Heffner, C. C.**, Newman, R. S., Dilley, L. C., & Idsardi, W. J. (2015). Age-related differences in speech rate perception do not necessarily entail age-related differences in speech rate use. *Journal of Speech, Language, and Hearing Research*, 58(4): 1341-1349.
- Baese-Berk, M., **Heffner, C. C.**, Dilley, L. C., Pitt, M. A., Morrill, T., & McAuley, J. D. (2014). Long-term temporal tracking of speech rate affects spoken-word recognition. *Psychological Science*, 25(8): 1546-1553.
- Heffner, C. C.**, Dilley, L. C., McAuley, J. D., & Pitt, M. (2013). When cues combine: How distal and proximal acoustic cues are integrated in word segmentation. *Journal of Language and Cognitive Processes*, 28(9): 1275-1302.
- Dilley, L. C., & **Heffner, C. C.** (2013). The role of F0 alignment in distinguishing categories in American English intonation: Evidence from American English. *Journal of Speech Sciences*, 3: 3-67.

BOOK CHAPTERS

- Dilley, L., Wallace, J., & **Heffner, C.** (2012). Perceptual isochrony and fluency in speech by normal talkers under varying task demands. In *Prosodies: Context, Function, and Communication*, O. Niebuhr and H. Pfitzinger (Eds.), *Language, Context, and Cognition series*, Walter deGruyter.

IN PROGRESS

- Liter, A., Huelskamp, A., **Heffner, C. C.**, & Schmitt, C. (under revision). Non-grammaticalized number entails an exclusive interpretation of plural morphology. *Glossa*.

IN PREPARATION

- Heffner, C. C.**, Al-Thowaini, B. M., & Rytting, C. A. (in preparation). Arabic consonant length distinctions are affected by distal speech rate.
- Heffner, C. C.**, Newman, R. S., & Idsardi, W. J. (in preparation). Rate adaptation in event perception resembles rate adaptation in speech perception.
- Heffner, C. C.**, Idsardi, W. J., & Newman, R. S. (in preparation). Disjunctivity in phonetic category learning.
- Heffner, C. C.**, Wieland, E., Idsardi, W. J., Newman, R. S., & Chang, S.-E. (in preparation). Rule-based phonetic category learning is impaired in children who stutter: Behavioral data.
- Heffner, C. C.**, Idsardi, W. J., & Newman, R. S. (in preparation). German-speaking museum zombies: Implicit learning of disjunctive phonetic categories.

CONFERENCE PRESENTATIONS

RESEARCH-RELATED

- Heffner, C. C.**, Newman, R. S., & Idsardi, W. J. (2017, November). *Viewers adapt to rate changes in event perception*. Poster to be presented at the fifty-eighth meeting of the Psychonomic Society, Vancouver, BC, Canada.
- Heffner, C. C.**, & Slevc, L. R. (2017, August). *Musical ability predicts the ability to learn novel speech sound categories*. Poster presented at the 2017 Society for Music Perception and Cognition Meeting, San Diego, CA.
- Dilley, L., Arjmandi, M. K., Ireland, Z., **Heffner, C. C.**, & Pitt, M. (2016, December). *Glottalization, reduction, and acoustic variability in function words in American English*. Poster presented at the fifth Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, Hawai'i.
- Heffner, C. C.**, Al-Thowaini, B., & Rytting, C. A. (2016, September). *Context speech rate can affect Arabic geminate perception*. Poster presented at the twenty-second International Congress on Acoustics, Buenos Aires, Argentina.
- Heffner, C. C.**, Jaekel, B., Newman, R. S., & Goupell, M. (2016, January). *An exploratory study of word segmentation in CI users and vocoded speech*. Paper presented at the Mid-Atlantic Seminar on Hearing (MASH), College Park, MD.
- Heffner, C. C.**, Idsardi, W. J., & Newman, R. S. (2015, November). *Support for a dual-systems model of speech sound category learning from goodness judgments*. Poster presented at the fifty-sixth annual meeting of the Psychonomic Society, Chicago, IL.
- Liter, A., Huelskamp, A., **Heffner, C. C.**, & Schmitt, C. (2015, October). *Non-grammaticalized number entails an exclusive interpretation of plural morphology*. Paper presented at the Workshop on the Linguistic and Cognitive Aspects of Quantification (LCQ 2015), Budapest, Hungary.
- Heffner, C. C.**, & Newman, R. S. (2014, July). *A more slowly ticking clock isn't less useful*. Paper presented at the 2014 Universitas 21 Graduate Research Conference, Auckland, New Zealand.
- Heffner, C. C.**, & Idsardi, W. J. (2014, January). *Limits on phonetic category learning*. Paper presented at the eighty-eighth annual Meeting of the Linguistics Society of America (LSA), Minneapolis, MN.
- Heffner, C. C.**, & Newman, R. S. (2013, October). *Differences in timing perception may not entail differences in timing use*. Poster presented at the fifth international Aging and Speech Communication conference, Bloomington, IN.
- Liter, A., **Heffner, C. C.**, & Schmitt, C. (2013, October). *Inclusive plural interpretations depend on grammaticalized number: An argument from artificial language learning*. Paper presented at the Workshop on the Acquisition of Quantification, University of Massachusetts, Amherst, MA.
- Heffner, C. C.**, & Newman, R. S. (2013, June). *Canadian oats and Canadian goats: Comparing distal cues to segmentation and segments*. Poster presented at the twenty-first International Congress on Acoustics, Montréal, QC, Canada.
- Liter, A., **Heffner, C. C.**, & Schmitt, C. (2013, April). *An artificial language investigation of number and number neutrality*. Paper presented at the third annual Great Lakes Expo for Experimental and Formal Undergraduate Linguistics (GLEEFUL), East Lansing, MI.
- Heffner, C. C.**, Dilley, L. C., & McAuley, J. D. (2012). *Going the distance: The effects of local and global speech rate on word segmentation*. Paper presented at:
- The Perspectives on Rhythm and Timing (PoRT) workshop, Glasgow, Scotland, UK, July 2012.
 - The second annual Great Lakes Expo for Experimental and Formal Undergraduate Linguistics (GLEEFUL), East Lansing, MI, April 2012.
- Heffner, C. C.**, & Dilley, L. C. (2011, April). *Unlikely allies: Acoustic and syntactic cues in word segmentation*. Paper presented at:
- The first annual Great Lakes Expo for Experimental and Formal Undergraduate Linguistics (GLEEFUL), East Lansing, MI.
 - The first annual Midwest Cognitive Science Meeting, East Lansing, MI.
- Heffner, C. C.**, Liter, A., & Schmitt, C. (2011, April). *Dogs not put in boxes by boys: Learning a novel number system*. Poster session presented at the first annual Great Lakes Expo for Experimental and Formal Undergraduate Linguistics (GLEEFUL), East Lansing, MI.
- Dilley, L., Wallace, J., & **Heffner, C.** (2011, April). *Perceptual isochrony and fluency in speech by normal talkers under varying task demands*. Poster session presented at the first annual Midwest Cognitive Science Meeting, East Lansing, MI.
- Heffner, C.**, & Dilley, L. C. (2010, November). *When cues collide: How distal speech rate and proximal acoustic information influence word segmentation*. Poster session presented at the fifty-first annual meeting of the Psychonomic Society, St. Louis, MO.
- Dilley, L. C., Pitt, M., & **Heffner, C.** (2010, July). *What information in speech conveys speaking-rate effects in lexical perception?* Poster session presented at the Conference on Laboratory Phonology (LabPhon) XII, Albuquerque, NM.

PEDAGOGY- AND OUTREACH-RELATED

- Heffner, C. C.** (2016, April). *Turning students into researchers: Linguistics experiments in a collaborative classroom*. Paper to be presented at the Innovations in Teaching and Learning Conference, College Park, MD.

Lidz, J., Lau, E., **Heffner, C.**, Dudley, R., & Phillips, C. (2015, January). *Expanding our reach and theirs with linguistics research*. Paper presented in the “Linguistics for everyone: Tips and tricks for do-it-yourself-ers” panel at the eighty-ninth annual Meeting of the Linguistics Society of America (LSA), Portland, OR.

INVITED TALKS

- Heffner, C. C.** (2015, June). *Why do Europeans think that I'm German? Studies of phonetic category learning*. Paper presented at the University of Tübingen Mini-Workshop, Tübingen, Baden-Württemberg, Germany.
- Heffner, C. C.** (2015, April). *What's the difference between a Spartan and a Wolverine? An interdisciplinary study of phonetic category learning*. Paper presented at the sixth annual Michigan State Undergraduate Linguistics Conference (MSULC), East Lansing, MI.

TEACHING EXPERIENCE

Co-Instructor, LING 499L (Biology of Language)

I helped to turn this seminar into a more regular part of the Linguistics curriculum. For the course proper (which has 6 students), I evaluated presentations, prepared labs, and oversaw a final paper.

Spring 2017**Instructor**, LING 449E (Seminar: Biology of Language)

I created the entirety of this 7-student senior seminar, including the syllabus and course structure. I evaluated presentations, prepared biweekly labs, and oversaw the development of a final project.

Fall 2015**TA**, LING 322 (Phonology II)

I graded, held office hours, and gave one 75-minute lecture for a class of about 25 students.

Spring 2015**TA**, LING 321 (Phonology I)

I graded, held office hours, and gave two 75-minute lectures for a class of about 12 students.

Fall 2013

SEMINARS LED

“Praat”, HESP Toolkit Series, College Park, MD

I conducted a similar seminar to the one I led at George Washington University, teaching people how to use Praat scripting to automate phonetic processing.

March 2015

“Linguistics for Everyone” outreach presentation, Linguistics Society of America meeting, Portland, OR

I assisted other UMD language scientists in instructing linguists and other conference-goers about how to perform effective outreach.

January 2015

“Praat”, George Washington University, Washington, DC

I was paid as a consultant on a project related to bilingual children, wherein I instructed GWU students and faculty about how to use Praat to automate phonetic analyses.

December 2014

“Artificial Languages”, HESP Toolkit Series, University of Maryland, College Park, MD

I created and ran a seminar related to the use of artificial languages in language-related experiments.

November 2012

COURSE GUEST LECTURES

EXTERNAL

Perception of prosody, UGS 200H (Language and Music Honors Research Seminar)

I created and gave a lecture remotely at Michigan State University about the experiment described in Dilley and Heffner (2013) and my experience as an undergraduate researcher.

February 2016

Linear mixed effects modeling, CSD 990 (Independent Study)

I worked through a set of materials posted online about linear mixed-effects models with a graduate student and faculty member at Michigan State University, with me (as the most proficient member in the

Spring 2014

group at using such models) generally leading the discussion. These sessions occurred roughly biweekly for about three months.

INTERNAL

Acoustic phonetics, two class sessions, HESP 403 (Introduction to Phonetic Science) I used previous materials to give two lectures about acoustic phonetics to undergraduates at UMD.	November 2015
Category learning, two class sessions, PSYC 409 (Topics in Neuroscience) I created and gave lectures across two classes related to my research. The first lecture was a facilitated discussion of a previous paper; the second related specifically to my category learning experiments.	September 2015
Artificial language training, LING 620 (Phonology) I created and led a discussion about artificial language experiments regarding phonological opacity.	October 2014
Word segmentation, HESP 300 (Psycholinguistics) I created and gave a lecture about word segmentation to a group of undergraduates.	September 2013

PROFESSIONAL SERVICE

OUTREACH

Member ('12-present), Chair ('13-'15) NACS Outreach Committee, University of Maryland, College Park	10/2012 – 05/2017
Member ('13-'15), Co-Chair ('14-'15), Emeritus Member ('15-present) Language Science Outreach Committee, University of Maryland, College Park	07/2013 – 05/2017

ORGANIZATIONAL

Affiliate Connecticut Institute for the Brain and Cognitive Sciences (IBACS), University of Connecticut	08/2017 – present
Member ('14-'17) NACS Student Grant Review Committee, University of Maryland, College Park	12/2014 – 05/2017
Representative of Outreach Committee NACS Student Representative Committee, University of Maryland, College Park	09/2014 – 05/2015
Co-Representative of Outreach Committee Language Science Center Student Executive Committee, University of Maryland, College Park	10/2014 – 05/2015
Student Representative Linguistics Graduate Student Association, University of Maryland, College Park	09/2013 – 11/2016
Member NACS-Fest (Program Recruitment Weekend) Committee, University of Maryland, College Park	10/2012 – 02/2015
Member Language Science/NACS Maryland Day Committees, University of Maryland, College Park	11/2012 – 05/2014
Founder, President q Undergraduate Association for Linguistics at Michigan State (qUALMS), Michigan State University	01/2010 – 04/2012

CONFERENCE

Member ('12-'14), Chair ('13-'14)

Organization Committee, MayFest workshop, University of Maryland, College Park

09/2012 – 05/2014**Chair**

Great Lakes Expo for Experimental and Formal Undergraduate Linguistics (GLEEFUL), Michigan State University

09/2010 – 04/2012**Chair ('10), Vice Chair ('11, '12)**

Michigan State Undergraduate Linguistics Conference (MSULC), Michigan State University

01/2010 – 04/2012

SKILLS

Languages

English – native language

Spanish – speak, read, and write with low intermediate proficiency

Turkish – basic proficiency

Arabic – basic proficiency

Computing

Praat scripting – advanced

PsychoPy – high intermediate

E-Prime – intermediate

Python – intermediate

MATLAB – intermediate

R – intermediate

SPM – beginner