

## **Adam Buchwald**

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### **Employment**

- 2013-Present Associate Professor, Department of Communicative Sciences and Disorders, New York University, Steinhardt School of Culture, Education, and Human Development
- 2007-2013 Assistant Professor, Department of Communicative Sciences and Disorders, New York University, Steinhardt School of Culture, Education, and Human Development
- 2007-Present Faculty Affiliate, Departments of Linguistics and Psychology, New York University, College of Arts and Sciences
- 2005-2007 Post Doctoral Research Fellow, Speech Research Laboratory, *Indiana University*

### **Education**

- Ph. D., 2005. Cognitive Science, *Johns Hopkins University (Baltimore, MD)*
- M.A., 2002, Cognitive Science, *Johns Hopkins University (Baltimore, MD)*
- B.A., 1997, Psychology, *Reed College (Portland, OR)*
- H.S., 1993, *Stuyvesant High School (New York, NY)*

### **Fellowships**

#### *Fellowships*

- NIH Post-Doctoral Training Fellowship (T32 to Dr. David Pisoni), 2005-2007.  
NSF IGERT Graduate Research and Training Fellowship, 2000-2005.

### **Publications** (\* - indicates student author)

#### ***Peer-reviewed publications: Journals***

**Buchwald, A.**, Gagnon, B., & Miozzo, M. (2017, in press). Identification and remediation of phonological and motor errors in acquired sound production impairment. *Journal of Speech, Language, and Hearing Research*. Accepted November 24, 2016.

Steinberg Lowe, M.\* & **Buchwald, A.** (2017, in press). The impact of feedback frequency on performance in a novel speech motor task. *Journal of Speech, Language, and Hearing Research*. Accepted November 18, 2016.

- McAllister Byun, T., **Buchwald, A.**, & Mizoguchi, A.\* (2016). Covert contrast in velar fronting: An acoustic and ultrasound study. *Clinical Linguistics and Phonetics*, 30(3-5), 249-276.
- Buchwald, A.** (2015). Cognitive and neural constraints on theories of language production. *Language, Cognition, & Neuroscience*, 30(3), 235-238.
- Buchwald, A.** & Falconer, C.\* (2014). Cascading activation from lexical processing to letter-level processing in written word production. *Cognitive Neuropsychology*, 31(7-8), 606-621.
- Rapp, B., **Buchwald, A.**, & Goldrick, M. (2014). Integrating accounts of speech production: The devil is in the representational details. *Language, Cognition and Neuroscience*, 29, 24-27.
- Felty, R.A., **Buchwald, A.**, Gruenenfelder, T. & Pisoni, D.B. (2013). Misperceptions of spoken words: Data from a random sample of American English words. *Journal of the Acoustical Society of America*, 134(1), 572-585.
- Falconer, C.\* & **Buchwald, A.** (2013). Does orthographic overlap influence lexical selection? *Aphasiology*, 27(7), 849-866.
- Miozzo, M. & **Buchwald, A.** (2013). On the nature of sonority in spoken word production: Evidence from neuropsychology. *Cognition*, 128, 287-301.
- Buchwald, A.** & Miozzo, M. (2012). Phonological and motor errors in individuals with acquired sound production impairment. *Journal of Speech, Language & Hearing Research*, 55, 1573-1586.
- Buchwald, A.** & Henry, H.K.\* (2012). Lexically-driven phonetic variation in individuals with acquired speech impairment. *Journal of Medical Speech-Language Pathology*, 20(4), 36-40.
- Buchwald, A.** & Miozzo, M. (2011). Finding levels of abstraction in speech production: Evidence from sound production errors. *Psychological Science*, 22(9), 1113-1119.
- Buchwald, A.** & Rapp, B. (2009). Distinctions between orthographic long-term memory and working memory in spelling. *Cognitive Neuropsychology*, 26(6), 724-751.
- Buchwald, A.** (2009). Minimizing and optimizing structure in phonology: Evidence from aphasia. *Lingua*, 119(10), 1380-1395.
- Buchwald, A.**, Winters, S.J., & Pisoni, D.B. (2009). Visual speech primes open-set recognition of auditory words. *Language and Cognitive Processes*, 24(4), 580-610.
- Bent, T.C., **Buchwald, A.** & Pisoni, D.B. (2009). Perceptual adaptation and intelligibility of multiple talkers for two types of degraded speech. *Journal of the Acoustical Society of America*, 126 (5), 2660-2669.
- Felty, R., **Buchwald, A.** & Pisoni, D.B. (2009). Adaptation to frozen babble in spoken word recognition. *Journal of the Acoustical Society of America – Express Letters*, 125(3), EL93-EL97.
- Buchwald, A.**, Rapp, B., and Stone, M. (2007). Insertion of discrete phonological units: An ultrasound investigation of aphasic speech. *Language and Cognitive Processes*, 22(6), 910-948.
- Buchwald, A.** and Rapp, B. (2006). Consonants and vowels in orthography. *Cognitive Neuropsychology*, 23(2), 308-337.

**Peer-reviewed publications: Book chapters**

**Buchwald, A.** (2014). Phonetic processing. In Ferreira, V., Goldrick, M. & Miozzo, M. (Eds.) *Oxford Handbook of Language Production* (pp. 245-258). Oxford University Press: New York.  
<http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199735471.001.0001/oxfordhb-9780199735471-e-013>

**Buchwald, A.** (2011). Neighborhood Effects. In van Oostendorp, M., Ewen, C., Hume, B. & Rice, K (Eds.). *The Blackwell Companion to Phonology* (Vol. 4), Chapter 87. Wiley-Blackwell: New York.

**Conference proceedings (refereed conferences) (\* - indicates student author)**

Rimikis, S\*, **Buchwald, A.** & Miozzo, M. (2016) Morphophonological patterns in the lexicon influence past-tense production in aphasia. *Frontiers in Language Science*. Conference Abstract: Academy of Aphasia 54<sup>th</sup> Annual Meeting.

**Buchwald, A.** and Miozzo, M. (2015). Identifying and treating phonological and motor errors in acquired speech impairment. *Frontiers in Language Science*. Conference Abstract: Academy of Aphasia 53<sup>rd</sup> Annual Meeting. doi: 10.3389/conf.fpsyg.2015.65.00038

Lee, B.\* and Buchwald, A. (2015). Selecting a phoneme-to-grapheme mapping: Random or weighted selection? *Frontiers in Language Science*. Conference Abstract: Academy of Aphasia 53<sup>rd</sup> Annual Meeting. doi: 10.3389/conf.fpsyg.2015.65.00012

Rimikis, S.\* and Buchwald, A. (2015). Do morphophonological rules impact both regular and irregular verb inflection? Evidence from acquired morphological impairment. *Frontiers in Language Science*. Conference Abstract: Academy of Aphasia 53<sup>rd</sup> Annual Meeting. doi: 10.3389/conf.fpsyg.2015.65.00028

Rimikis, S.\* & **Buchwald, A.** (2014). Combinatorial Processing of Irregular Verbs: Evidence from Aphasia. *Frontiers in Language Science*. Conference Abstract: Academy of Aphasia -- 52nd Annual Meeting. doi: 10.3389/conf.fpsyg.2014.64.00001

Miozzo, M. & **Buchwald, A.** (2012). On the Nature of Sonority: Evidence from Neuropsychology. *Procedia – Social and Behavioral Sciences*. (Proceedings of Academy of Aphasia).

Krehm, M.\*, **Buchwald, A.**, & Vouloumanos, A. (2012). The effect of variation on phonetic category learning. *BUCLD 36: Proceedings of the 36th annual Boston University Conference on Language Development*, Boston, MA.

Falconer, C.\*, Miner, T.\*, Velez, D.\* & **Buchwald, A.** (2011). Interaction between word-level and letter-level processing in written language: Evidence from acquired dysgraphia. *Procedia – Social and Behavioral Sciences*, 23, 238-239. (Proceedings of Academy of Aphasia)

Miner, T.\* & **Buchwald, A.** (2011). Distinguishing morphological processing impairment from phonological impairment in aphasia. *Procedia – Social and Behavioral Sciences*, 23, 63-64. (Proceedings of Academy of Aphasia)

- Buchwald, A.** & Miozzo, M. (2010). Abstract Phonemic Representations Affect Speech Production: Evidence from Speech Impairment. *Procedia – Social and Behavioral Sciences*, 6, 128-129. (Proceedings of Academy of Aphasia)
- Buchwald, A.**, Rapp, B., and Stone, M. (2006). Evidence for discrete phonological representations in production. *Brain and Language*, 99, 129-130. (Proceedings of Academy of Aphasia)
- Buchwald, A.** (2005). Representing phonological knowledge in Language Processing: Evidence from aphasia. In Alderete, J., Han, C-H., and Kochetov, A. (Eds.) *Proceedings of the West Coast Conference on Formal Linguistics(WCCFL) 24*, Simon Frasier University, Vancouver, 79-87.
- Buchwald, A.** and Rapp, B. (2004). Rethinking the Graphemic Buffer? *Brain and Language*, 91, 100-101. (Proceedings of Academy of Aphasia)
- Buchwald, A.** and Rapp, B. (2003). The orthographic representation of consonant-vowel status: Evidence from two cases of acquired dysgraphia. *Brain and Language*, 87, 120-121. (Proceedings of Academy of Aphasia)
- Buchwald, A.**, Schwartz, O., Seidl, A., and Smolensky, P. (2002). Recoverability Optimality Theory: Discourse Anaphora and Bidirectional Optimization. In Bos, Foster & Matheson (eds.): Proceedings of the sixth workshop on the semantics and pragmatics of dialogue (EDILOG 2002). Pages 37-44.

#### **Technical Reports and Published abstracts**

- Falconer, C.\*, **Buchwald, A.**, & Edwards, D. (2014). Speech-language neurorehabilitation: Preliminary results of tDCS and robotic arm training in single left ischemic stroke. *Brain Stimulation*, 7(2), e6-7.
- Buchwald, A.**, Rapp, B. & Miozzo, M. (2009). Allophones, voice onset time, and aphasic speech errors. *Journal of the Acoustical Society of America*, 125, 2532.
- Buchwald, A.**, Felty, R.A. & Pisoni, D.B. (2008). Neighbors as competitors: Phonological analysis of spoken word recognition errors. *Journal of the Acoustical Society of America*, 123, 3328.
- Felty, R.A., **Buchwald, A.**, & Pisoni, D.B. (2008). Lexical analysis of spoken word recognition errors. *Journal of the Acoustical Society of America*, 123, 3327.
- Buchwald, A.**, Bent, T., Conway, C.M., Levi, S.V. & Loebach, J.L. (2007). New directions in speech research. In *Research on Spoken Language Processing Progress Report No. 28*. Bloomington, IN: Speech Research Laboratory, Indiana University.
- Bent, T., **Buchwald, A.** and Alford, W. (2007). Inter-talker differences in intelligibility for two types of degraded speech. In *Research on Spoken Language Processing Progress Report No. 28*, Bloomington, IN: Speech Research Laboratory, Indiana University.
- Bent, T., **Buchwald, A.**, & Pisoni, D.B. (2006). Inter-talker differences in intelligibility of cochlear-implant simulated speech. *Journal of the Acoustical Society of America*, 120 (5), Pt. 2, 3291.
- Buchwald, A.**, Winters, S. & Pisoni, D.B. (2005). Cross-modal priming investigating the relationship between auditory and visual lexical information. In *Research on Spoken Language Processing Progress Report No. 27*. Bloomington, IN: Speech Research Laboratory, Indiana University.

Poupplier, M., **Buchwald, A.**, & Stone, M. (2004). An ultrasound and tagged cine MRI study of German vowels. Poster presented at the 148<sup>th</sup> Meeting of the Acoustical Society of America, San Diego, CA. Abstract published in *Journal of the Acoustical Society of America*, 116, 2630.

Poupplier, M., **Buchwald, A.** & Stone, M. (2004). A tagged cine-MRI and ultrasound study of the German vowel system. *Working Papers and Technical Reports, Vocal Tract Visualization Laboratory, University of Maryland Dental School, Baltimore*, 6, 18-55.

## **Presentations**

### ***Invited talks and colloquia***

- 2017 Annual Meeting in Phonology (Phonology 2017). NSF-sponsored Keynote lecture. New York, NY. (September 15-17).
- 2015 NYC Neuromodulation 2015, New York, NY. “What is the optimal timing of tDCS and aphasia therapy?” (January 9).
- 2014 Columbia University Seminar on Language and Cognition, New York, NY (February 20).
- 2012 Johns Hopkins University, IGERT Conference 2012: Interdisciplinary training and cognitive science, Baltimore, MD (February 11).
- 2011 Teacher’s College, Speech Science Seminar, New York, NY (April 6).  
Northwestern University, Linguistics colloquium, Evanston, IL (April 1).
- 2010 Sackler Institute for Developmental Psychobiology, Cornell-Weill Medical Center, Science Meeting Seminar, New York, NY (November 4).
- 2009 CUNY Graduate Center, Department of Speech-Language-Hearing Sciences colloquium, New York, NY (December 2).  
Haskins Laboratories, Staff Talk Series, New Haven, CT (June 18).
- 2008 New York University, Department of Psychology – Cognition and Perception colloquium, New York, NY (Sept. 11)  
International workshop on production and perception of consonant clusters, Munich, Germany (July 31-August 2<sup>nd</sup>).  
5<sup>th</sup> International Workshop on Language Production, Annapolis, MD (July 28-30).  
Michigan State University, Linguistics and Communication Sciences and Disorders colloquium, East Lansing, MI (March 20).
- 2007 CUNY Graduate Center, Psycholinguistics Supper series, New York, NY (October 2).  
Minimality and optimality in phonological processing: Evidence from aphasia. Workshop on Experimental evidence for minimal structure, Siegen, Germany (February 28 – March 2).  
Yale University, Department of Linguistics, New Haven, CT (February 19).
- 2006 Smolensky, P. and **Buchwald, A.** Blocking: Recoverability in Syntax and Phonology. Workshop on Gaps in Paradigms. Oslo, Norway, (May 23).

Indiana University, Speech Research Laboratory, Bloomington, IN, (April 7).

2005 Johns Hopkins Medical Institution, Cognitive Neurology Series, Baltimore, MD. (May 12).

Repairs and representations in speech production: Evidence from Aphasia. Ohio State University, Columbus, OH (May 10).

Representations and repairs in speech production: Evidence from Aphasia. Indiana University, Bloomington, IN (April 11).

Smolensky, P. and **Buchwald, A.** Recoverability, faithfulness, and bi-directional optimization. Talk presented at workshop entitled: Speech perception within or outside phonology? Köln, Germany (February 23-25).

**Conference Presentations** \* – indicates student author

2016 **Buchwald, A.**, Steinberg Lowe, M.\* & Calhoun, H.\* *Promoting Speech Motor Learning with Non-Invasive Brain Stimulation.* Paper presented at ASHA Annual Convention, Philadelphia, PA, November 17-19.

Rimikis, S\*, **Buchwald, A.** & Miozzo, M. *Do Morphophonological Patterns Affect Past-Tense Production? Evidence from Aphasia.* Paper presented at ASHA Annual Convention, Philadelphia, PA, November 17-19.

Falconer, C\*., Chang, J., Volpe, B, Edwards, D., & **Buchwald A.** *Speech/Language Changes in Chronic Stroke with Repetitive Right Upper Extremity Practice Preceded by tDCS.* Poster presented at ASHA Annual Convention, Philadelphia, PA, November 17-19.

Steinberg Lowe, M.\*, **Buchwald, A.** & Levi, S. *Individual Differences in Inhibitory Control & Language Processing.* Poster presented at ASHA Annual Convention, Philadelphia, PA, November 17-19.

Tong, T.\* & **Buchwald, A.** *Production of Native & Non-Native Consonant Clusters.* Poster presented at ASHA Annual Convention, Philadelphia, PA, November 17-19.

Rimikis, S\*, **Buchwald, A.** & Miozzo, M. *Morphophonological patterns in the lexicon influence past-tense production in aphasia.* Paper presented at 54<sup>th</sup> Annual Meeting of the Academy of Aphasia, Bangor, Wales, October 16-18.

Rimikis, S\*, **Buchwald, A.** & Miozzo, M. *Morphophonological patterns influence past-tense production.* Poster presented at 9<sup>th</sup> International Workshop on Language Production, San Diego, CA, July 25-27.

**Buchwald, A.** Steinberg Lowe, M\*. & Calhoun, H\*. *Using tDCS to facilitate learning of non-native consonant clusters.* Poster presented at 9<sup>th</sup> International Workshop on Language Production, San Diego, CA, July 25-27.

**Buchwald, A.** & Miozzo, M. *Levels of processing and their interaction in speech production.* Poster presented at LabPhon 15, Ithaca, NY, July 14-16.

**Buchwald, A.** & Miozzo, M. *Identification and rehabilitation of phonological and motor errors in individuals with acquired sound production impairment.* Paper presented at Motor Speech Conference, Newport Beach, CA, March 3-6.

**Buchwald, A.,** Steinberg Lowe, M\*. & Calhoun, H\*. *Facilitating speech motor learning with noninvasive brain stimulation.* Poster presented at Motor Speech Conference, Newport Beach, CA, March 3-6.

Steinberg Lowe, M.\* & **Buchwald, A.** *The impact of feedback frequency on performance in a novel speech motor learning task.* Paper presented at Motor Speech Conference, Newport Beach, CA, March 3-6.

2015 **Buchwald, A.** & Miozzo, M. *Identifying and treating phonological and motor errors in acquired speech impairment.* Paper to be presented at 53<sup>rd</sup> Annual Meeting of the Academy of Aphasia, Tucson, AZ, October 18-20.

Lee, B.\* & **Buchwald, A.** *Selecting a phoneme-to-grapheme mapping: Random or weighted selection?* Poster to be presented at 53<sup>rd</sup> Annual Meeting of the Academy of Aphasia, Tucson, AZ, October 18-20.

Rimikis, S.\* & **Buchwald, A.** *Do morphophonological rules impact both regular and irregular verb inflection? Evidence from acquired morphological impairment.* Poster to be presented at 53<sup>rd</sup> Annual Meeting of the Academy of Aphasia, Tucson, AZ, October 18-20.

Rimikis, S.\* & **Buchwald, A.** *The influence of morphophonological rules in production: Evidence from aphasia.* Poster presented at 9th International Morphological Processing Conference, Potsdam, Germany, June 18-20.

Galletta, E., **Buchwald, A.,** Richardson, J., Fridriksson, J., Hamilton, R., Turkeltaub, P., Marangolo, P. *Treatment of Aphasia Combining Neuromodulation and Speech-Language Intervention.* Poster presented at NYC Neuromodulation 2015, New York, NY, January 9-11.

2014 **Buchwald, A.,** Henry, H.\*, Shaw, T.\* & Amato, G\*. *Evaluating Speech-Motor Learning in AOS: Evidence From Acoustics.* Paper presented at ASHA Annual Convention, Orlando, FL, November 20-22.

McAllister Byun, T., **Buchwald, A.** & Mizoguchi, A\*. *Covert Contrast in Velar Fronting: An Ultrasound Study.* Paper presented at ASHA Annual Convention, Orlando, FL, November 20-22.

Steinberg Lowe, M.\* & **Buchwald, A.** *Using Feedback Frequency to Promote Speech Motor Learning.* Poster presented at ASHA Annual Convention, Orlando, FL, November 20-22.

Rimikis, S.\* & **Buchwald, A.** *Combinatorial Processing of Irregular Verbs: Evidence from Aphasia.* Poster presented at 52<sup>nd</sup> Annual Meeting of the Academy of Aphasia, Miami, FL, October 5-7.

2013 Falconer\*, C., **Buchwald, A.,** Zipse Chang, J., Cortes, M., Rykman, A., Krebs, H. Volpe, B., Fregni, F., Pascual-Leone, A. & Edwards, D. *Speech-Language Neurorehabilitation: Preliminary results of tDCS and robotic arm training in single left ischemic stroke.* Poster presented to the 2013 NYC Neuromodulation Conference, New York, NY, Nov. 22-23.

- 2012 Miner\*, T. & **Buchwald, A.** *Clinical Assessment of Aphasia: Effects of Morphologically Complex Stimuli*. Poster presented at ASHA Annual Convention, Atlanta, GA, November 15-17.
- Miozzo, M. & **Buchwald, A.** *On the nature of sonority: Evidence from neuropsychology*. Paper presented at 50<sup>th</sup> Annual Meeting of the Academy of Aphasia, San Francisco, CA, October 28-30.
- Falconer\*, C. & **Buchwald, A.** *Letter activation influences lexical selection: Evidence from acquired dysgraphia*. Poster presented at the 7<sup>th</sup> International Workshop on Language Production, New York, NY, July 18-20.
- Falconer\*, C. & **Buchwald, A.** *Does orthographic overlap influence lexical selection?* Poster presented at Clinical Aphasiology Conference 2012, Lake Tahoe, CA, May 20-May 25.
- Buchwald, A.** & Henry\*, H. *Lexically-driven phonetic variation in individuals with acquired speech impairment*. Poster presented at Motor Speech Conference, Santa Rosa, CA, February 29-March 4.
- 2011 Miner\*, T. & **Buchwald, A.** *Separating effects of morphological and phonological complexity in aphasia*. Poster presented at ASHA Annual Convention, San Diego, CA, November 17-19.
- Krehm\*, M., **Buchwald, A.**, & Vouloumanos, A. *The Effect of Variation on Phonetic Category Learning*. Poster presented at Boston University Conference on Language Development 36, Boston, MA, November 4-6.
- Falconer\*, C., Miner\*, T., Velez\*, D. & **Buchwald, A.** *Interaction between word-level and letter-level processing in written language: Evidence from acquired dysgraphia*. Paper presented at 49<sup>th</sup> Annual Meeting of the Academy of Aphasia, Montreal, Canada, October 16-18.
- Miner\*, T. & **Buchwald, A.** *Distinguishing morphological processing impairment from phonological impairment in aphasia*. Poster presented at 49<sup>th</sup> Annual Meeting of the Academy of Aphasia, Montreal, Canada, October 16-18.
- Buchwald, A.** & Miozzo, M. *Identifying the level that errors arise in acquired speech impairment*. Poster presented at the 6th International Conference on Speech Motor Control, Groningen, The Netherlands, June 8-11.
- Buchwald, A.** & Miozzo, M. *Isolating the locus of articulation errors*. Poster presented at Clinical Aphasiology Conference 2011, Ft. Lauderdale, FL, May 31-June 4.
- 2010 **Buchwald, A.** & Miozzo, M. *Abstract Phonemic Representations Affect Speech Production: Evidence from Speech Impairment*. Poster presented at 48<sup>th</sup> Annual Meeting of the Academy of Aphasia, Athens, Greece, October 24-26.
- Buchwald, A.** & Miozzo, M. *Evidence for separate phoneme and allophone representations*. Poster presented at 6<sup>th</sup> International Workshop on Language Production, Edinburgh, UK, September 2-4.
- Buchwald, A.** & Miozzo, M. *Evidence for language-internal cluster well-formedness differences*. Paper presented at Linguistics Society of America, Baltimore, MD, January 7-10.



- 2009 **Buchwald, A.** & Miozzo, M. *Distinguishing phonological from phonetic errors in aphasia: Evidence from acoustics*. Poster presented at ASHA Annual Convention, New Orleans, LA, November 19-21.
- Buchwald, A.**, Rapp, B. & Miozzo, M. *Distinguishing phonological errors from phonetic errors in acquired speech impairment*. Paper presented at 47<sup>th</sup> Annual Meeting of the Academy of Aphasia, Boston, MA, October 18-20.
- Buchwald, A.**, Rapp, B., & Miozzo, M. *Allophones, VOT and aphasic speech errors*. Poster presented at 157<sup>th</sup> Meeting of the Acoustical Society of America, Portland, Oregon, May 18-22.
- 2008 Felty, R., **Buchwald, A.** & Pisoni, D.B. *Constructing neighborhood density from spoken word recognition errors*. Paper presented at the 6th Conference on the Mental Lexicon, Banff, Alberta, October 7–10.
- Buchwald, A.** & Felty, R. Neighbors as competitors: Phonological analysis of spoken word recognition errors. Poster presented at the 155<sup>th</sup> Meeting of the Acoustical Society of America, Paris, France, June 29 – July 4.
- Felty, R. & **Buchwald, A.** Neighbors as competitors: Lexical analyses of spoken word recognition errors. Poster presented at the 155<sup>th</sup> Meeting of the Acoustical Society of America, Paris, France, June 29 – July 4.
- 2007 **Buchwald, A.** & Felty, R. Constructing neighborhood density through recognition errors. Paper presented at Mid-Continental Workshop on Phonology (MCWOP), Columbus, OH, October 26-28. (presented by R. Felty)
- Buchwald, A.** Determining well-formedness in phonology: Type vs. token frequency. Paper presented at Annual Meeting of Linguistic Society of America, Anaheim, CA, January 4-7.
- 2006 Bent, T., **Buchwald, A.** and Pisoni, D. Inter-talker differences in intelligibility of cochlear-implant simulated speech. Poster presented at the 152<sup>nd</sup> Meeting of the Acoustical Society of America, Honolulu, HI.
- Goldberg, A.M., **Buchwald, A.**, & Rapp, B. A challenge to chaining theories of serial order: An SRN investigation. Talk presented at the 46th Annual Meeting of the Psychonomic Society, Toronto, Canada.
- Buchwald, A.**, Rapp, B., and Stone, M. Evidence for discrete phonological representations in production: Ultrasound imaging of aphasic speech. Paper presented at 44<sup>th</sup> Annual Meeting of the Academy of Aphasia, Victoria, BC.
- Buchwald, A.** Grammatical repairs in spoken language production: Evidence from Aphasia. Poster presented at 3<sup>rd</sup> Annual Language Production Workshop, Chicago, IL.
- Buchwald, A.** and Stone, M. Representation and repair in speech production: Evidence from aphasia. Poster presented at LabPhon 10, Paris, France, June 29-July 1.
- Goldberg, A.M., **Buchwald, A.**, Kochaniak, J., Rapp, B. Investigating Serial Order and Graphemic Representations in Spelling: A Simple Recurrent Network Simulation. Poster presented at the 27th Annual Meeting of the Cognitive Science Society, Stresa, Italy.

- 2005 **Buchwald, A.** and Stone, M. Categorical repairs in Speech Production: Evidence from Aphasia. Poster presented at workshop: The state of the art in speech error research, MIT, Boston, MA, July 30-31.
- Buchwald, A.** Representing sound structure. Paper presented at HUMDRUM. University of Massachusetts, Amherst, April 22-23, 2005.
- Buchwald, A.** Representing phonological knowledge in Language Processing: Evidence from aphasia. Paper presented at WCCFL 24, Simon Fraser University, Vancouver, BC, March 18-20.
- Buchwald, A.** Representing phonological knowledge in language processing: Evidence from aphasia. Poster presented at HOWL 3, Johns Hopkins University, Baltimore, MD.
- 2004 **Buchwald, A.** and Rapp, B. Categorical and gradient representations and processes in spoken word production. Poster presented at the 45<sup>th</sup> Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Pouplier, M., **Buchwald, A.** and Stone, M. An ultrasound and tagged cine MRI study of German vowels. Poster presented at the 148<sup>th</sup> Meeting of the Acoustical Society of America, San Diego, CA. Abstract in *Journal of the Acoustical Society of America*, 116, 2630.
- Buchwald, A.** and Rapp, B. Rethinking the Graphemic Buffer? Poster presented at the 42<sup>nd</sup> Annual Academy of Aphasia Meeting, Chicago, IL.
- 2003 **Buchwald, A.** and Rapp, B. The orthographic representation of consonant-vowel status. Paper presented at the 44<sup>th</sup> Annual Meeting of the Psychonomic Society, Vancouver, BC
- Buchwald, A.** and Rapp, B. The orthographic representation of consonant-vowel status: Evidence from two cases of acquired dysgraphia. Paper presented at the 41<sup>st</sup> Annual Academy of Aphasia Meeting, Vienna, Austria.
- 2002 **Buchwald, A.**, Schwartz, O., Seidl, A., and Smolensky, P. Recoverability Optimality Theory: Discourse Anaphora in a Bidirectional Framework. Paper presented at 6th annual Workshop in Optimality Theoretic Syntax (WOTS-6), Potsdam University.
- Buchwald, A.**, Schwartz, O., Seidl, A., and Smolensky, P. Discourse Anaphora and Bidirectional Optimization: Recoverability Optimality Theory. Paper presented at EDILOG 2002, University of Edinburgh. (Paper presented by first two authors)
- Buchwald, A.** Null Objects in Brazilian Portuguese. Paper presented at HUMDRUM 2002, University of Massachusetts at Amherst

## **Funding**

### *External Grants (funded)*

NIH K01DC014298 *Using tDCS to promote speech motor learning* (Direct costs: \$800,518). 7/1/15-6/30/20.

Role: Principal Investigator

National Science Foundation. *Cognitive, computational, and neural processing: Constraints on theories of language production*. Workshop support grant (Total costs: \$23,189). 8/1/11-9/1/12.

Role: Principal Investigator (Proposal ID: 1124124).

### NYU Grants (funded)

NYU University Research Challenge Fund (2014). *Using tDCS to facilitate speech motor learning* (\$15,000). 9/1/14-8/31/16.

Role: Principal Investigator

NYU Steinhardt Summer Development Grant (2013). *Differentiation and treatment of acquired sound production errors* (\$5,000).

NYU Steinhardt IDEA Challenge Grant (2013). *Covert contrast in child phonology: Ultrasound imaging investigation of velar fronting* (\$5,000).

Role: Co-Principal Investigator (with Dr. Tara McAllister Byun)

NYU Steinhardt IDEA Challenge Grant (2010). *Developing /r/ in Children with Phonological Disorders: Ultrasound Imaging and Perceptual Judgments* (\$5,000).

Role: Co-Principal Investigator (with Dr. Harriet Klein)

NYU Steinhardt Summer Development Grant (2008). *Distinguishing Motor-based Speech Errors from Phonologically-driven Speech Errors* (\$5,000).

### Awards and Honors

Outstanding Faculty Award from NYU Steinhardt Undergraduate Student Government (2012)

ASHA Lessons for Success Conference Fellow (2010).

### Teaching Experience

New York University (\*) – developed course; (\*\*) – redeveloped course

*Undergraduate Courses*

Science and Neurology of Language

Science of Language\*\*

Acoustic Phonetics

*Master's courses*

Critical Evaluation of Research in Communicative Sciences and Disorders

Speech Science: Instrumentation

Perception and Production of Speech\*

*Doctoral Courses*

Advanced Topics in Speech and Language: Lexical access for speech production\*\*

Doctoral Seminar in CSD

Research Colloquium in CSD\*\*

### Advising

PhD dissertation committee (Chair in bold)

- In progress: **Carolyn Falconer** (CSD); Julie Case (CSD)
- 2015: Trudy Krajenbrink (Macquarie Univ., Cog Sci; external reader); Sean Martin (Linguistics)
- 2014: Joseph Fruchter (Psychology)
- 2013: Madelaine Krehm (Psychology); Ji Sook Ahn (CSD)
- 2012: Rachel Jean-Baptiste (CSD); Patricia Irwin (Linguistics);
- 2010: May Liu (CSD); Jason Shaw (Linguistics)
- 2009: Rachel Wolf-Colon (CSD)

Qualifying paper, PhD students (Chair in bold)

- In progress: Haley Addis, QP1; Stacey Rimikis, QP2

- 2017: Joanne Li, QP1; Mara Steinberg Lowe, QP2
- 2016: **Binna Lee, QP2**; Heather Campbell: QP1
- 2015: **Mara Steinberg Lowe, QP1**; **Stacey Rimikis, QP1**; Julie Case: QP2
- 2014: James Whang (Linguistics): QP2
- 2013: **Carolyn Falconer: QP2**; Heather Henry: QP1
- 2012: Carolyn Falconer: QP1
- 2011: Sean Martin (Linguistics), QP1

Other advising

- Tappy Tong (CSD), Honors Undergraduate Thesis (2016)
- Jennifer Wang (CSD), Honors MS Thesis (2015)
- Tori Miner (CSD), Honors MS Thesis (2012)
- Andreia Pacheco (Ph.D. student from Portugal, at NYU 12/08-3/09)

**Professional Activities**

**External Service**

Memberships and organizational roles

- Member of Academy of Aphasia, 2009-present
- Member of American Speech-Language Hearing Association (ASHA), 2007-present
- Associate Member of Acoustical Society of America, 2006-present
- Member of Linguistic Society of America (LSA), 2004-present
- ASHA Pathways Leadership Team (2016-2017)
- Mentor, ASHA Pathways program (2015, 2017)

Conference organizer

- 7<sup>th</sup> International Workshop on Language Production (IWOLP '12), July 18-20, 2012, New York, NY

**Reviewing and Editorial Experience**

Associate Editor

- Language, Cognition, and Neuroscience (2013-14, Special Issue)*
- Journal of Speech, Language and Hearing Research (2016-7, Special Issue)*

Editorial Board

- Cognitive Neuropsychology (2015-present)*
- Frontiers in Language Sciences (2015-present)*
- Journal of Speech, Language and Hearing Research (2017-)*

Ad hoc journal reviewer

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|--|---|
| <i>American Journal of Speech Language Pathology</i> | <i>European Journal of Cognitive Psychology</i>                             |
| <i>Aphasiology</i>                                   | <i>Frontiers in Language Science</i>  |
| <i>Applied Psycholinguistics</i>                     | <i>International Journal of Language and Communication Disorders</i>        |
| <i>Brain and Language</i>                            | <i>International Journal of Speech Language Pathology</i>                   |
| <i>Cognition</i>                                     | <i>Journal of Experimental Psychology: Human Perception and Performance</i> |
| <i>Cognitive and Brain Neurology</i>                 | <i>Journal of Experimental Psychology: Learning, Memory and Cognition</i>   |
| <i>Cognitive Neuropsychology</i>                     |   |
| <i>Cognitive Science</i>                             |   |
| <i>Cortex</i>  |   |

*Journal of Memory and Language*  
*Journal of Phonetics*  
*Journal of Speech, Language, and Hearing*  
*Research*

*Language and Cognitive Processes*  
*Language, Cognition, and Neuroscience*  
*Laboratory Phonology*  
*Phonology*

Grant reviewer

Ad hoc reviewer for *National Science Foundation*, 2008, 2009, 2011, 2017  
NYU Steinhardt Challenge Grant, 2011, 2014  
NYU Steinhardt Martha Leaska Dissertation Grant, 2012  
City University of New York – Health Panel, 2017

Conference abstract reviewer and program committees

*Academy of Aphasia* program committee 2013-2015 (Asst. chair, 2013; Chair, 2014; Past chair, 2015)  
*ASHA: Motor speech disorders* committee, 2011, 2012  
*ASHA: Speech and Language Sciences* committee, 2016, 2017  
*International Workshop on Language Production*, 2012-2016 (2012, chair)  
*International Seminar on Speech Production (ISSP)*, 2011  
*WeCOL (Western Conference On Linguistics)* 2007

**Internal Service**

Steinhardt School of Culture, Education, and Human Development

Grievance Advisory Panel	2014-present
Steinhardt Faculty Senate	2009-2015
Steinhardt Faculty Council	2009-2015
Faculty Affairs Committee	2009-2010 (chair); 2014-2015 (chair)
School Planning Committee	2011-2012; 2013-2014 (chair)
Doctoral Affairs Committee (representative)	2013-present
Search Committee, Department of Nutrition, Food Studies and Public Health/Global Institute of Public Health	2013-2014
Ad hoc committee on Online Course Evaluations	2011-2014
Faculty Academic Affairs Committee	2010-2011
Martha Leaska Dissertation Award Review Panel	2012
Steinhardt Challenge Grant Review Panel	2011, 2014
Technology Committee (member)	2007-2012
Committee on Courses and Programs (member)	2007-2009
Search Committee, Department of Applied Psychology	2007-2008

Communicative Sciences and Disorders Department

CSD Tenure Track Search Committee (Chair)	2016-2017
Doctoral Program (Director; Committee chair)	2013-present
Doctoral Program Committee Representative	2007-2013
CSD search committee	2011-2012; 2012-2013
Promotion and Tenure Committee	2011-2012; 2014
Curriculum Committee	2007-2010
Student Progress Committee	2007-2009, 2013 (chair)
Technology Committee	2008-2013 (chair)
Stavros Niarchos Scholarship Committee	2008-2009
Space Committee	2008-2012