

Mara Steinberg Lowe

M.A., CCC-SLP; Doctoral Candidate

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Department of Communicative Sciences and Disorders
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EDUCATION

- 2013 – present **New York University**
Doctoral Program in Communicative Sciences and Disorders
- 2008 – 2010 **University of Maryland, College Park**
Master of Arts in Speech Language Pathology
- 2003 – 2007 **The George Washington University**
Bachelor of Science in Biology
Bachelor of Arts in Speech and Hearing Sciences
Summa cum laude

PUBLICATIONS

Peer-reviewed articles

- Steinberg Lowe, M.**, & Levi, S.V. (under review). Lexical and sublexical competition during a lexical decision task and their relationship to inhibitory control during spoken word recognition. *Mental Lexicon*.
- Cristian Leyton, C., Hodges, J.R., **Steinberg Lowe, M.**, Piguet, O., & Ballard, K.J. (under review). Impact of linguistic and non-linguistic deficits on sentence processing across Primary Progressive Aphasia variants. *Neuropsychologia*.
- Buchwald, A., Calhoun, H., Edwards, D., Rimikis, S., **Steinberg Lowe, M.**, & Wellner, R. (under review). Using tDCS to facilitate motor learning in speech production: The role of timing. *Journal of Neuroscience*.
- Steinberg Lowe, M.**, and Buchwald, A. (2017). The impact of feedback frequency on performance in a novel speech motor learning task. *Journal of Speech, Language and Hearing Research*, 60, 1712-1725.
- Steinberg Lowe, M.**, Lewis, G., & Poeppel, D. (2016). Effects of part- and whole-object primes on early MEG responses to Mooney faces and houses. *Frontiers in Psychology*, 7. doi:10.3389/fpsyg.2016.00147
- Steinberg, M.E.**, Bernstein Ratner, N., Galliard, W.D., & Berl, M.M. (2013). Fluency patterns in narratives from children with localization-related epilepsy. *Journal of Fluency Disorders*, 38, 193-205.

- Hu, V.W., Nguyen, A., Kim, K.S., **Steinberg, M.E.**, Sarachana, T., et al. (2009). Gene expression profiling of lymphoblasts from autistic and nonaffected sib pairs: Altered pathways in neuronal development and steroid biosynthesis. *PLoS ONE* 4(6): e5775.
- Hu, V., Sarachana, T., Kim, K.S., Nguyen, A., **Steinberg, M.E.**, Luu, T., Lai, Y., and Lee, N. (2009). Gene expression profiling differentiates autism case-controls and phenotypic variants of autism spectrum disorders: Evidence for circadian rhythm dysfunction in severe autism. *Autism Research*, 2 (2), 78-97.
- Hu, V. and **Steinberg, M.E.** (2009). Novel clustering of items from the Autism Diagnostic Interview-Revised to define phenotypes within autism spectrum disorders. *Autism Research*, 2 (2), 67-77.

Database

- Gaillard, W., Berl, M., Strekas, A., **Steinberg Lowe, M.**, & Bernstein Ratner, N. (2016). POLER Corpus. (data file) Retrieved from <http://fluency.talkbank.org> doi:10.21415/T51P4S

POSTERS AND PRESENTATIONS

Conference Presentations

- Buchwald, A., **Steinberg Lowe, M.**, Calhoun, H., Wellner, R., & Rimikis, S. (2017, November). Enhancing speech motor learning with noninvasive brain stimulation. Poster presentation at the Society for the Neurobiology of Language. November 8-10, 2017. Baltimore, Maryland.
- Buchwald, A., **Steinberg Lowe, M.**, Calhoun, H., Rimikis, S., & Wellner, R. (2017, July). Enhancing speech motor learning with noninvasive brain stimulation. Oral presentation at the International Conference on Speech Motor Control. July 5-8, 2017. Groningen, the Netherlands.
- Buchwald, A., **Steinberg Lowe, M.**, & Calhoun, H. (2016, November). Promoting speech motor learning With non-invasive brain stimulation. Oral presentation at the American Speech-Language-Hearing Association Convention. November 17-19, 2016. Philadelphia, PA.
- Steinberg Lowe, M.**, Buchwald, A. & Levi, S. (2016, November). Individual differences in inhibitory control and language processing. Poster presented at the American Speech-Language-Hearing Association Convention. November 17-19, 2016. Philadelphia, PA.
- Buchwald, A., **Steinberg Lowe, M.**, & Calhoun, H. (2016, July). Using tDCS to facilitate learning of non-native consonant clusters. Poster presentation at the International Workshop on Language Production. July 25-27, 2016. La Jolla, CA.
- Steinberg Lowe, M.** & Buchwald, A. (2016, March). The impact of feedback frequency on performance in a novel speech motor learning task. Oral presentation at the Motor Speech Conference. March 2-6, 2016. Newport Beach, CA.
- Buchwald, A., **Steinberg Lowe, M.**, & Calhoun, H. (2016, March). Facilitating speech motor learning with noninvasive brain stimulation. Poster presentation at the Motor Speech Conference. March 2-6, 2016. Newport Beach, CA.

- Steinberg Lowe, M.**, Berl, M., Gaillard, W.D., and Bernstein Ratner, N. (2015, July). Neuroimaging correlates of fluency in typical and atypically developing children. Poster presented at the 8th World Congress on Fluency Disorders, Lisbon, Portugal and published in International Fluency Association Conference Proceedings.
- Steinberg Lowe, M.** & Buchwald, A. (2014, November). Using feedback frequency to promote speech motor learning. Poster presented at the American Speech-Language-Hearing Association Convention, Orlando, FL.
- Steinberg, M.E.**, Bernstein Ratner, N., Berl, M., & Gaillard, W.D. (2012, July). Fluency patterns in narratives from children with localization related epilepsy. Poster presented at the 7th World Congress on Fluency Disorders, Tours, France.
- Steinberg, M.E.**, Bernstein Ratner, N., Duke, E., Berl, M.M. & Gaillard, W.D. (2011, July). On the surface and hidden below: Spoken fluency and brain activation in children with typical and impaired language skills. Symposium presented at the International Association for the Study of Child Language, 12th Congress, Montreal, Canada.
- Steinberg, M.E.**, Bernstein Ratner, N., Duke, E., Gaillard, W.D., & Berl, M.M. (2010, November). Fluency and speech rate in epilepsy: Correlations with fMRI profiles. Poster presented at the American Speech-Language-Hearing Association Convention, Philadelphia, PA.
- Steinberg, M.E.** & Hu, V.W. (2008, March). Using the Autism Diagnostic Interview–Revised to define phenotypes within Autism Spectrum Disorders. Poster presented at The George Washington University Medical Center Annual Research Day, Washington, DC.
- Steinberg, M.E.**, Dalakas, M. & Solomon, B. (2006, August). Campath: A novel therapy for inclusion body myositis - Oral motor, speech and swallowing outcomes six months post-treatment. Poster presented at National Institutes of Health Summer Poster Day, Bethesda, MD.

Invited Talks

- Steinberg Lowe, M.** (2015, August). The influence of feedback on performance during a complex speech motor learning task. Invited presentation for the Department of Cognitive Science, Macquarie University, Sydney, Australia.
- Steinberg, M.E.** (2012, October). The cerebellum's role in language and cognition. Invited presentation for Medstar National Rehabilitation Hospital's Speech Language Pathology Service, Washington DC.

RESEARCH EXPERIENCE

Psycholinguistics, Aphasia and Neuromodulation Laboratory
 New York University, New York, NY
Doctoral Student Researcher – laboratory of Dr. Adam Buchwald

September 2013 – Present

Acoustic Phonetics and Perception Laboratory
 New York University, New York, NY
Doctoral Student Researcher – laboratory of Dr. Susannah Levi

June 2015 – May 2017

Department of Communication Sciences and Disorders Neuroscience Research Australia (NeuRA) University of Sydney, Faculty of Health Sciences, Sydney, Australia <i>Visiting Student – supervised by Dr. Kirrie Ballard and Dr. Cristian Leyton</i>	July 2015 – August 2015
Neuroscience of Language Lab New York University, New York, NY <i>Doctoral Student Researcher – laboratory of Dr. David Poeppel</i>	February 2014 – August 2015
Children’s National Research Institute Children’s National Medical Center, Washington, DC <i>Graduate Student Researcher – supervised by Dr. Madison Berl, Dr. William Gaillard and Dr. Nan Bernstein Ratner</i>	September 2009 – August 2010
Language Development Laboratory University of Maryland, College Park, MD <i>Graduate Student Research Assistant – laboratory of Dr. Rochelle Newman</i>	August 2008 – August 2010
Department of Biochemistry and Molecular Biology The George Washington University, Washington, DC <i>Research Assistant / Lab Manager – laboratory of Dr. Valerie Hu</i>	September 2006 – June 2008
Department of Rehabilitation Medicine, Speech Language Pathology National Institutes of Health Clinical Center, Bethesda, MD <i>Summer Student / Volunteer – supervised by Beth Solomon, M.A., CCC-SLP</i>	May 2006 – May 2007

TEACHING EXPERIENCE

Adjunct Instructor

Fall 2017	<i>Adult Language Disorders</i> , New York University Master’s level (online program)
Fall 2016	<i>Critical Evaluation of Research</i> , New York University Master’s level

Teaching Assistant

Spring 2016	<i>Instrumental Assessment and Treatment of Dysphagia</i> , New York University Master’s level, problem-based learning (PBL) course (Professor: Sonja Molfenter, PhD, CCC-SLP)
Fall 2015	<i>Introduction to Communication Sciences and Disorders</i> , New York University Undergraduate course (Professor: Gina Canterruci, M.A., CCC-SLP)
Spring 2015	<i>Introduction to Child Language Disorders</i> , New York University Undergraduate level, problem-based learning (PBL) course (Professor: Christina Reuterskiold, PhD, CCC-SLP)

Fall 2005 – *Introduction to Biology*, The George Washington University
Spring 2006 Undergraduate course

Guest Lectures

- Spring 2016 “Motor Learning Principles for Swallowing”
New York University, Department of Communication Sciences and Disorders
Instrumental Assessment and Treatment of Dysphagia (Master’s level)
- Fall 2015 “Treatment Planning and Procedures for Acquired Disorders in Adults”
New York University, Department of Communicative Sciences and Disorders
Methods and Materials in Communication Sciences and Disorders (Undergraduate level)
- Spring 2014 “Defining Phenotypes in Autism”
New York University, Department of Communicative Sciences and Disorders
Language and Communication in Children with Autism Spectrum Disorders (Master’s level)

Other Teaching Experience

- Spring 2016 **Adjunct Clinical Supervisor**
New York University, Department of Communicative Science and Disorders
- 2004 – 2005 **Exhibit Educator**
Smithsonian National Museum Of American History, Washington, DC
“Science in American Life: Hands On Science Center” and “Whatever Happened to Polio?”

SERVICE

- 2017 **Manuscript Review**, *Memory and Cognition*
Student Reviewer (with Dr. Adam Buchwald)
- 2015-2016 **Mentor**, *1000 Girls, 1000 Futures*
Global STEM Alliance, New York Academy of Sciences
- 2015 **Manuscript Review**, *International Journal of Speech Language Pathology*
Student Reviewer (with Dr. Adam Buchwald)

AWARDS, HONORS AND GRANTS

- 2015 ASHFoundation New Century Scholars Doctoral Scholarship
- 2015 International Fluency Association Bursary Award
- 2014 NYU Steinhardt Doctoral Student Travel Award
- 2007 Phi Beta Kappa (ΦBK), Alpha Chapter, Washington, DC
- 2007 Sigma Xi, Grant-in-Aid of Research
- 2006 National Institutes of Health, Summer Research Fellowship Program
Rehabilitation Medicine Department, Speech-Language Pathology Section

2003 – 2007	National Collegiate Honor Society, The George Washington University
2001 – 2003	National Honor Society
2000 – 2001	Presidential Gold Award and Presidential Silver Award for community service

CLINICAL EXPERIENCE

2014 – present	St. Francis Hospital <i>Speech Language Pathologist, per diem</i>	Roslyn, NY
2014 – 2015	YAI – Center for Specialty Therapy <i>Speech Language Pathologist</i>	Manhattan, NY
2012 – 2013	Medstar National Rehabilitation Hospital <i>Staff Speech Language Pathologist – Stroke Team</i>	Washington, DC
2011 – 2013	Genesis Rehab Services – Shady Grove Center <i>Speech Language Pathologist, per diem</i> <i>Speech Language Pathologist I</i> <i>Speech Language Pathologist – Clinical Fellow</i>	Rockville, MD
2010 – 2011	ProRehab, Inc. – Northampton Manor <i>Speech Language Pathologist – Clinical Fellow</i>	Frederick, MD
2010	Suburban Hospital <i>Graduate Student Clinician</i>	Bethesda, MD
2009	The Lab School of Washington <i>Graduate Student Clinician</i>	Washington, DC
2009	LEAP Preschool, University of Maryland <i>Graduate Student Clinician</i>	College Park, MD
2008 – 2010	University of Maryland Speech and Hearing Clinic <i>Graduate Student Clinician</i>	College Park, MD

CERTIFICATION AND LICENSURE

2011 – present	Certificate of Clinical Competence <i>American Speech Language and Hearing Association #12130774</i>
2012 – present	License, Speech-Language Pathology <i>State of New York, #021865</i>
2011 – present	License, Speech-Language Pathology <i>District of Columbia, #000503</i>
2010 – present	License, Speech-Language Pathology <i>State of Maryland, #06640</i>

PROFESSIONAL MEMBERSHIPS

American Speech Language Hearing Association (ASHA)	2010 – present
New York State Speech Language Hearing Association	2014 – present
National Student Speech Language Hearing Association (NSSLHA)	2004 – 2010
International Fluency Association	2015 – present
International Association for the Study of Child Language	2011 – 2013
American Association for the Advancement of Science (AAAS)	2007 – present
Sigma Xi, The Scientific Research Society, The George Washington University Chapter	2007 – present
Phi Beta Kappa Society	2007 – present