

**CURRICULUM VITAE
PILAR ARCHILA**

PERSONAL INFORMATION

Business Address: Texas Institute for Measurement, Evaluation, and Statistics (TIMES)
Psychology Department
University of Houston
Heyne Bldg, Office 207C
Houston, TX 77004

E-mail address: mparchila@uh.edu

EDUCATION

2009- 2012 Ph.D., Psychology - University of Houston, Houston, Texas
Area: Developmental Cognitive Neuroscience
Dissertation: *The Influence of Phonetic Experience on Perceptual Flexibility and Auditory Plasticity in Bilinguals*
Advisor: Dr. Arturo Hernandez

2007-2009 Master of Arts, Psychology- University of Houston, Houston, Texas
Area: Developmental Cognitive Neuroscience
Thesis: *Age of Acquisition and Proficiency in a Second Language Independently Influence the Perception of Non-native Speech.*
Advisor: Dr. Arturo Hernandez

2004-2007 Bachelor of Science – University of Houston
Major: Psychology
Minor: Human Development and Family Studies

RESEARCH INTERESTS

- Development of native and non-native speech sound systems
- Speech learning and neuroplasticity
- Effects of environment on speech categorization
- Relationship between speech perception and reading

HONORS AND AWARDS

2014 American Psychological Association, Mentorship program award, Washington DC.

2011 Graduate Students Present at Cognitive Neuroscience Society

2007 Summa Cum Laude, Department of Psychology, University of Houston

2006 University of Houston Dean's list

PEER-REVIEWED ARTICLES

Archila-Suerte, P., Zevin, J., & Hernandez, A.E. How Age of Acquisition and Proficiency

Level Predict Perception of Non-native Speech (2015). *Brain and Language*.

Archila-Suerte, P., Bunta, F., & Hernandez, A.E. Speech Sound Learning Depends on individual's ability, not just experience (2014). *International Journal of Bilingualism*.

Archila-Suerte, P., Zevin, J., Ramos, A., & Hernandez, A.E (2012) The Neural Basis of Non-Native Speech Perception in Bilingual Children. *Neuroimage*. 67, 51-63.

Archila-Suerte, P., Zevin, J., Bunta, F., & Hernandez, A. E. (2011). Age of Acquisition and Proficiency in a Second Language Independently Influence the Perception of Non-native Speech. *Bilingualism: Language and Cognition*, 15 (1), 190-201.

BOOK CHAPTERS

Archila-Suerte, P., Munson, B., & Hernandez, A.E (under review). The Role of Executive Function in Second Language Speech Perception in Young Learners. *Bilingual Processing and Acquisition*.

ARTICLES IN PREPARATION

Archila-Suerte, P., Wagner, V., Zevin, J., & Hernandez, A.E. Neural Processing of Non-native Within and Between Categories in Early and Late Bilinguals. To be submitted to *The Journal of Neurolinguistics* in March 2016.

GRANT-RELATED EXPERIENCE

2008 Ford Foundation Diversity Fellowship
2014 Research Supplement to Promote Diversity in Health-related Research – NIH
2015 Submission of R03 to NIDCD- cycle II, PA 13-057
2015 Submission of K99/R00 to NICHD – cycle III, PA 15-083

PRESENTATIONS

Archila-Suerte, P., Zevin, J., & Hernandez, A. (2011). Developmental Effects in the Speech Perception of Bilingual Children. Talk presented at the Cognitive Neuroscience Society, San Francisco, CA.

Archila-Suerte, P. (2010). Phonemic Experience and Neuroplasticity in Bilinguals. Talk presented at the Research Colloquia, Texas Institute for Measurement, Evaluation, and Statistics (TIMES).

Archila-Suerte, P., Hernandez, A.E (2009). Age of Acquisition and language proficiency in the bilingual brain. Talk presented at the Houston Area Speech Hearing Language Science Day. Rice University. Houston, TX, April 11.

Archila-Suerte, P. (2009). Career Development Before, During, and After Graduate School: Insights. Talk presented at PsiChi meeting Houston Chapter. University of Houston, TX.

POSTER PRESENTATIONS

Archila-Suerte, P., Bunta, F., & Hernandez, A. (2015). *Speech Sound Learning Depends on Individual's Ability, Not just Experience*. Poster presented at The International Symposium of Bilingualism, New Brunswick, NJ.

Archila-Suerte, P., Bunta, F., & Hernandez, A. (2014). *Speech Sound Learning Depends on Individual's Ability, Not just Experience*. Poster presented at The American Psychological Association, Washington, DC.

Ramos, A., **Archila-Suerte, P.**, Zevin, J., & Hernandez, A. (2011). *The Role of Age of Acquisition and Language Proficiency During L2 Sound Detection in Bilinguals*. Poster presented at the Cognitive Neuroscience Society, San Francisco.

Archila-Suerte, P., Woods, E., Zevin, J., & Hernandez, A. (2010). *Detection of Non-native sounds in a Passive Listening Task*. Poster presented at the Cognitive Neuroscience Society, Montreal, CA.

Archila-Suerte, P., Ramos, A., Zevin, J., & Hernandez, A.E (2010). *How Age of Acquisition and Proficiency in Bilinguals Predict L2 Sound Detection*. Poster presented at the Association for Research in Memory, Attention, Decision making, Intelligence, Language, Learning, and (Perceptual) Organization - Armadillo, College Station, TX.

Archila-Suerte, P., Zevin, J., & Hernandez, A. (2009). *Sensitivity to Within-Group and Between-Group Speech Categories in Early, Intermediate, and Late Spanish-English Bilinguals with Varying Proficiency Levels*. Poster presented at the Cognitive Neuroscience Society, San Francisco, CA.

Archila-Suerte, P., Zevin, J., & Hernandez, A. (2009). *Perceptual Auditory Malleability in Highly Proficient Late Bilinguals: Nonnative Speech Categorization*. Poster presented at the Association for Research in Memory, Attention, Decision making, Intelligence, Language, Learning, and (Perceptual) Organization - Armadillo, Rice University, Houston TX

Aznar-Besé, N., **Archila-Suerte, P.**, & Hernandez, A.E (2008) *The Effects of Contextual Constraint in the Neural Specialization of Reading Processes*. Poster presented at the Cognitive Neuroscience Society. San Francisco, CA.

RELATED ACADEMIC EXPERIENCE

Ad Hoc Book Reviewer *Babel No More: The Search for the World's Most Extraordinary Language Learners* by Michael Erard

RESEARCH EXPERIENCE

2012 -2013

Behavioral Research Analysis in Neurodevelopment (BRAIN) - UTH

Oversaw a multimodal neuroimaging study with struggling readers (ages 8 thru 12). My duties include the development of IRB applications, the acquisition of structural and functional MRI data, data analysis, and record-keeping.

2007-2012

Laboratory for the Neural Bases of Bilingualism- University of Houston

Trained and supervised undergraduate research assistants to test participants using language proficiency assessments. While in the lab, I established professional relationships with different organizations around the city of Houston to facilitate participant recruitment, including the YMCA and the Nehemiah Center. My role in the lab included calculating scores, entering and analyzing behavioral data, designing experimental tasks, maintaining records for 5 different projects, operating 3T Siemens MRI scanners for the acquisition of MRI and fMRI data, and conducting whole-brain, ROI, and functional connectivity analyses. I was also in charge of supervising a project to develop a database that allowed participants to complete language history information online along with the collaboration of software engineer Srinaath Ravichandran. This project culminated in the release of the following site: www.thebilingualbrain.com/lnbb.

2007

Cognitive Development Laboratory- University of Houston

Responsible for creating the experimental stimuli to be used by monolingual and bilingual children for tasks of novel word learning. I assisted in literature searches, the set up of a new laboratory, and in participant recruitment. My work was supervised by Dr. Hanako Yoshida.

2006 - 2007

Visual Cognition Laboratory

Responsible for recruiting participants, assessing participants' responses to psychological tests of anxiety and depression and entering data under the direction of Dr. Adam Leventhal.

COURSES AND SEMINARS

Postdoctoral Professional Development Seminars, 2012 – 2013
University of Texas at Houston Health Science Center
Houston, TX

Functional Near Infrared Spectroscopy (fNIRS) and EEG training, July 25-26, 2011
Laboratory for the Neural Bases of Bilingualism
Houston, TX

Functional Magnetic Resonance Imaging Certification, July, 2011
Human Neuroimaging Laboratory at Baylor College of Medicine
Houston, TX

SPM8 Network Analysis and Functional Connectivity, March 7-11, 2011
Massachusetts General Hospital at Athinoula A. Martinos Center for Biomedical Imaging
Boston, MA

SPM8 for Basic and Clinical Investigators, July 16-21, 2009

Massachusetts General Hospital at Athinoula A. Martinos Center for Biomedical Imaging
Boston, MA

Introductory Course to Unix, March 2008
Skillport e-learning Information Technology Training at the University of Houston
Houston, TX

PROFESSIONAL MEMBERSHIPS

2013, 2015 Society for the Neurobiology of Language
2014- American Psychological Association
2007 - Present Cognitive Neuroscience Society
2008- Present Cognitive Developmental Society
2009 Association Psychological Science
2007 Psi Chi, Psychology Honors Society, University of Houston chapter

TEACHING RESPONSIBILITIES

Lecturer, University Of Houston
Child Development (Fall, 2014)

Completion of University Teaching Certification (Spring, 2012)
University of Houston
Center for Teaching Excellence (CTE)
<https://sites.google.com/site/pilararchilasteachingportfolio/> (private website, access required)

Teaching Fellow, University of Houston
Child Development (Fall, 2011; Spring, 2012; Summer, 2012)

Teaching Fellow, University of Houston
Cognitive Psychology (Spring, 2010)

Teaching Assistant, University of Houston
Introduction to Psychology (Fall 2007, Spring 2008)
Cognitive Psychology (Fall 2007, Spring 2008, Fall 2008, Spring 2009, Fall 2009)
Abnormal Psychology (Summer 2008)
Cultural Psychology (Summer 2009)

LANGUAGES:

Proficient in speaking, reading, and writing English and Spanish

SKILLS:

Software	Basic	Intermediate	Advanced
SPM8			✓
<i>SPM Extensions</i>			
1. Functional Connectivity (conn)			✓
2.ArtDetection			✓
3.Artifact Repair			✓
4.Rex		✓	
5.MarsBar			✓
6. XjView			✓
7.Anatomy Toolbox			✓
Psyscope			✓
NEMO		✓	
SPSS			✓
SAS			✓
R		✓	
MATLAB	✓		
Praat		✓	
GingerAle			✓
Wavesurfer			✓
Apple Mac OS X 10.0-10.6			✓
EndNote			✓
Photoshop	✓		
MySQL - Database Management			✓
Microsoft Office Applications			✓

PROFESSIONAL REFERENCES

Arturo E. Hernandez Ph.D
Professor. Director of the Developmental Cognitive Neuroscience program
PI: Effects of genetic differences and bilingual status on cognitive control
Department of Psychology
University of Houston
Houston, TX 77024
713-743-8354
<http://www.uh.edu/class/psychology/about/people/arturo-hernandez/aehernandez@uh.edu>

Jack M. Fletcher Ph.D, ABPP
Distinguished University Professor
PI: Texas Learning Disability Center <http://www.texasldcenter.org>
Department of Psychology
University of Houston Texas Medical Center Annex
Houston, TX 77204
832-842-2006
<http://www.uh.edu/class/psychology/about/people/jack-fletcher/jmfletch@central.uh.edu>

Lee Branum-Martin Ph.D
Associate Professor
Co-PI: Center for the Study of Adult Literacy
Department of Psychology
Georgia State University
Atlanta, GA 30302
404-413-6271
<http://www2.gsu.edu/~wwwpsy/branummartin.html>
branummartin@gsu.edu