

# MANUEL JOSE MARTE

July 2022

Aphasia Research Laboratory  
Boston University  
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Boston, MA 2215

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## EDUCATION

2025 **Ph.D., Speech, Language & Hearing Sciences<sup>†</sup>**  
Boston University

2016 **M.S., Communication Disorders**  
State University of New York at New Paltz

2014 **B.A., Speech & Hearing Science**  
University at Buffalo

## RESEARCH INTERESTS

Aphasia, Bilingualism, Health Disparities, Neuroimaging

## RESEARCH EXPERIENCE

*Boston University*

2020–Present **Doctoral Student Research Assistant.**  
Aphasia Research Laboratory.  
PI: Swathi Kiran.

*State University of New York at New Paltz*

2015–2016 **Graduate Student Research Assistant.**  
Department of Communication Disorders.  
PI: Dana Arthur & Inge Anema.

*University at Buffalo*

2013–2014 **Undergraduate Student Research Assistant.**  
Center for Orofacial Pain Research.  
PI: Richard Ohrbach.

## PEER-REVIEWED PUBLICATIONS

1. **Marte M. J.**<sup>‡</sup>, Carpenter, E.<sup>‡</sup>, Falconer, I., Scimeca, M., Abdollahi, F., Peñaloza, C. & Kiran, S. (2022). LEX-BADAT: Language EXperience in Bilinguals With and Without Aphasia DATaset. *Frontiers in Psychology*. 13:875928. doi: 10.3389/fpsyg.2022.875928  
🔓 **Open Access**

## WORKING PAPERS

2. **Marte, M. J.**, Peñaloza, C., & Kiran, S. (*in review*). The cognate effect on lexical access in bilingual aphasia: Evidence from the Boston Naming Test.
3. **Marte, M. J.**, Addesso, D.<sup>^</sup>, & Kiran, S. (*in preparation*). Association between social determinants of health and disparities in stroke- and neurorehabilitation-associated outcomes in the poststroke U.S. Hispanic/Latino population.
4. Peñaloza, C.<sup>‡</sup>, **Marte, M. J.**<sup>‡</sup>, Billot, A., & Kiran, S. (*in preparation*). Cross-linguistic effects of sequential semantic treatment in trilingual aphasia.
5. **Marte, M. J.**, Buckshaw, R., Meier, E. L., Peñaloza, C., & Kiran, S. (*in preparation*). Effective connectivity during semantic decisions in Spanish-English bilinguals with aphasia: A case series.

## GRANT SUPPORT

2020–2022 *NIH/NIDCD Ruth L. Kirschstein Institutional National Research Service Award.*  
Advanced Research Training in Communication Sciences and Disorders.  
5T32DC013017-05

## HONORS & AWARDS

- 2022 *Student Scholar Award*  
16th Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders
- 2021 *NSF Research Traineeship Program–Understanding the Brain: Neurophotonic*  
DGE-1633516
- 2014 *Center for Undergraduate Research & Creative Activities Grant*  
University at Buffalo

## CONFERENCE POSTERS & PRESENTATIONS

### *Oral Presentations*

- 2022 **Marte, M. J.**, Scimeca, M., Addesso, D.<sup>^</sup>, Abdollahi, F., & Kiran, S. (*accepted*). Hispanic Stroke Care in the United States: Insights from Epidemiology, Health Disparity, and Clinical Practice. *American Speech-Language-Hearing Association Convention 2022*, New Orleans, LA.

## Poster Presentations

- 2022 Scimeca, M., Peñaloza, C., Carpenter, E., **Marte, M. J.**, Falconer, I., Combs, A., Gray, T., Shama-pant, S., & Kiran, S. Telerehabilitation for language deficits in Spanish-English individuals with post-stroke aphasia. (*submitted*). *12th World Congress for Neurorehabilitation*, Vienna, Austria.
- Addesso, D., **Marte, M. J.**, Abdollahi, F., & Kiran, S. (*accepted*). Social determinants of health contributing to disparities in stroke-associated variables in Hispanic populations. *16th Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders*, Philadelphia, PA.
- Marte, M. J.**, Addesso, D., Abdollahi, F., & Kiran, S. (*accepted*). U.S. Hispanic ethnicity and stroke- and neurorehabilitation-associated outcomes: Disparity-driven heterogeneity. *16th Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders*, Philadelphia, PA.
- Scimeca, M., Carpenter, E., **Marte, M. J.**, Combs, A., & Kiran, S. (*submitted*). Enabling access to post-stroke rehabilitation in Hispanic bilinguals with aphasia: Lessons learned and challenges ahead. *16th Annual Eleanor M. Saffran Cognitive Neuroscience Conference*, Philadelphia, PA.
- Carpenter, E., Braun, E. J., **Marte, M. J.**, Scimeca, M., Yücel, M. A., Boas, D. A., & Kiran, S. (*submitted*). Neuroscience in the Everyday World: Cortical Activation during Computer-Based Conversation Tasks Using Integrated fNIRS-EEG. *14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, PA.
- Marte, M. J.**, Billot, A., Peñaloza, C., & Kiran, S. (2022, June). Cross-linguistic effects of a semantic treatment for anomia provided in three languages: Evidence from multilingual aphasia. *International Aphasia Rehabilitation Conference 2022*, Philadelphia, PA.
- 2021 Braun, E. J., Gao, Y., Carpenter, E., **Marte, M. J.**, Scimeca, M., Abdollahi, F., Yücel, M. A., Boas, D. A., & Kiran, S. (2021, October). Use of fNIRS to investigate cortical activation for conversational responses and narrative discourse. *Society for functional Near-Infrared Spectroscopy 2021*, virtual conference.
- Marte, M. J.** & Kiran, S. (2021, October). Influences on cognate facilitation in healthy bilinguals and bilinguals with aphasia. *13th Annual Meeting of the Society for the Neurobiology of Language*, virtual conference.
- 2015 **Marte, M. J.** & Anema, I. (2015, May). Training Effects on Suprasegmental Features in Oral Reading of Non-Native English Speakers. *10th International Symposium on Bilingualism*, New Brunswick, NJ.
- 2014 Oldani, P., Hogan, C., Sauvageau, A., **Marte, M. J.**, Rudz, D., Agulia, B., Hanley, S., Quinn, T., Sharma, S., & Scerra, N. (Mentor: Ohrbach, R.) (2014, November). The effects of varying levels of repeated anodal transcranial direct current stimulation (tDCS) of the motor cortex on visuo-motor task performance. *Biomedical Engineering Society 2014 Annual Meeting*, San Antonio, TX.

## INVITED TALKS

2017 **Marte, M. J.** Augmentative Communication. *New York State Occupational Therapy Association Conference*, Albany, NY.

## TEACHING

### *Workshops*

2021 *Principal Component Analysis in Aphasia Research*.  
Aphasia Research Laboratory, Boston University.

### *Guest Lectures*

#### *Emerson College*

*Topics in Bilingual Aphasia.*

CD 690 Aphasia

Summer 2021, Spring 2022, Summer 2022

### *Teaching Assistant*

#### *State University of New York at New Paltz*

CMD 301 Speech Science

Spring 2015, Spring 2016

CMD 305 Hearing Science

Fall 2014, Fall 2015

CMD 310 Anatomy & Physiology of the Speech and Hearing Mechanism

Fall 2014, Fall 2015

## ACADEMIC MENTORSHIP & SUPERVISION

2022– Sofia Garcia Martinez (University of Illinois at Chicago '23)  
*M.S. in Biomedical Visualization, Master's Thesis Deliverable*

2021– David Addesso (Boston University '22)  
*Undergraduate Research Opportunities Program (UROP) Mentee*

2021 Hongli Zheng (Boston University '22)  
*UROP Mentee*

2021 Emily Benson-Tyler (Port Washington High School '22)  
*Research in Science & Engineering Program Mentee; Regeneron Science Talent Search*

## SERVICE

### *Events*

- 2022 *Massachusetts High School Science & Engineering Fair*  
Judge
- 2022 *BIG BRAIN WORKSHOP 2022*  
Session Chair
- 2021 *46th Annual Boston University Conference on Language Development*  
Talk and Poster Moderator

### *Ad-hoc Reviewer*

- 2021 *Brain Communications*

## DEVELOPMENT ACTIVITIES

- 2022 ASHA Student to Empowered Professional (S.T.E.P.) Mentee
- 2021 SPARK Mentee
- 2021 National Science Foundation Research Traineeship Program  
Understanding the Brain: Neurophotonics

## SELECTED CLINICAL EXPERIENCE

- 2016–2020 *Northeast Center for Rehabilitation and Brain Injury, NY.*

**Speech–Language Pathologist and Practicum Supervisor.** Evaluation and treatment services for adults with augmentative and alternative communication needs, ventilator dependency, executive dysfunction, pragmatic deficits, short- and long-term memory deficits, disorders of consciousness, voice, language, motor speech, auditory processing, neurogenic fluency, cognitive communication, and feeding and swallowing disorders. Mentoring and oversight of graduate-level student clinicians in this setting.

- 2018–2020 *Ghent Rehabilitation and Nursing Center, NY*

**Speech–Language Pathologist.** Evaluation and treatment services for older adults with dementia, short- and long-term memory deficits, language, cognitive communication, and feeding and swallowing disorders.

## PROFESSIONAL LICENSES AND CERTIFICATIONS

Certificate of Clinical Competence from the American Speech–Language–Hearing Association  
Massachusetts Professional Licensure in Speech–Language Pathology  
New York Professional Licensure in Speech–Language Pathology

## PROFESSIONAL MEMBERSHIPS

ASHA SIG 2: Neurogenic Communication Disorders

ASHA SIG 14: Cultural and Linguistic Diversity

Society for the Neurobiology of Language

SPARK Society

## MISCELLANEOUS

*Languages:* English (native), Spanish (native), Italian (~A1).

*Programming:* R/RStudio, MATLAB, L<sup>A</sup>T<sub>E</sub>X.

*Software/UI:* Qualtrics, Computerized Language ANalysis (CLAN), Adobe Illustrator, Microsoft Office.

<sup>†</sup>anticipated.

<sup>‡</sup>shared first authorship.

<sup>^</sup>student mentee.