

# Bradley E. White

Curriculum Vitae, May 2020

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## Positions and Employment

- 2019 – Pres.    Neuroimaging Scientist, Petitto Brain and Language Laboratory for Neuroimaging (BL2; Prof./Dr. Laura-Ann Petitto, Founder, Science Director, Sr. Cognitive Neuroscientist), Gallaudet University, Washington, DC
- 2015 – 2019    Doctoral Research Fellow, Ph.D. in Educational Neuroscience (PEN) Program, National Science Foundation and Gallaudet University's Science of Learning Center, Visual Language and Visual Learning (VL2), Gallaudet University, Washington, DC
- 2015 – 2019    Graduate Research Assistant, Langdon Language and Educational Neuroscience Laboratory (LENS; Dr. Clifton Langdon, Science Director), Gallaudet University, Washington, DC
- 2014 – 2015    Graduate Research Assistant, Petitto Brain and Language Laboratory for Neuroimaging (BL2; Prof./Dr. Laura-Ann Petitto, Founder, Science Director, Sr. Cognitive Neuroscientist), Gallaudet University, Washington, DC
- 2012 – 2014    Undergraduate Honors Research Fellow, Department of Clinical Health Sciences, Communication Sciences and Disorders Clinic, Texas A&M University-Kingsville, Kingsville, TX

## Education

- 2019            Ph.D., Educational Neuroscience, Ph.D. in Educational Neuroscience (PEN) Program, National Science Foundation and Gallaudet University's Science of Learning Center, Visual Language and Visual Learning (VL2), Gallaudet University, Washington, DC
- 2014            Honors B.S., *summa cum laude*, Communication Sciences and Disorders, Minor in Psychology, The Honors College at Texas A&M University-Kingsville, Kingsville, TX

## Other Experience and Professional Memberships

- 2019 – Pres.    Member, Cognitive Neuroscience Society
- 2018 – Pres.    Ad-hoc Reviewer, Society for Functional Near-Infrared Spectroscopy
- 2018 – Pres.    Member, Society for Neuroscience
- 2018 – Pres.    Member, Advances and Perspectives in Auditory Neuroscience
- 2018 – Pres.    Member, Society for the Neurobiology of Language
- 2018 – Pres.    Member, Mid-Atlantic Symposium on Hearing
- 2018 – 2018    Teaching Assistant, *New Directions in Neuroethics*, Gallaudet University
- 2018 – 2018    Teaching Assistant, *Contemporary Methods in Neuroimaging*, Gallaudet University
- 2017            Certificate, Getting and Cleaning Data, Johns Hopkins University on Coursera
- 2017            Certificate, R Programming, Johns Hopkins University on Coursera
- 2017            Certificate, The Data Scientist's Toolbox, Johns Hopkins University on Coursera
- 2017 – 2017    Visiting Student Researcher, Neuroplasticity and Development, Johns Hopkins University

- 2016 – 2017 Chair-Elect, Student Leadership Team, NSF-Gallaudet Science of Learning Center, VL2
- 2016 – 2016 Visiting Student Researcher, Neuroplasticity, Georgetown University Medical Center
- 2016 Certificate, fMRI, Center for Functional & Molecular Imaging, Georgetown Univ. Medical Center
- 2015 – 2019 President's List Scholar, Graduate School, Gallaudet University
- 2015 – 2019 Student Scholar, NSF-Gallaudet University Science of Learning Center, VL2
- 2015 – 2016 Ad-hoc Member, Research Committee, The Graduate Student Association, Gallaudet University
- 2015 – 2015 Consultant, Speech, Hearing, and Aural (Re)habilitation Program, Gallaudet University
- 2015 – 2015 Teaching Assistant, Audiology/Hearing Tech. for Educators & Counselors, Gallaudet University
- 2015 Certificate, fNIRS, NSF-Gallaudet, Petitto Brain and Language Laboratory for Neuroimaging
- 2014 – 2019 Ad-hoc Reviewer, VL2 Student Review Committee, Gallaudet University
- 2014 – 2015 Member, Student Academy of Audiology, Gallaudet University
- 2013 – 2014 Sole Founder and President, Student Audiology Forum, Texas A&M University-Kingsville
- 2013 – 2014 Member, Texas Speech, Language, and Hearing Association
- 2012 – Pres. Member, (National Student/American) Speech, Language, and Hearing Association

### Honors and Awards

- 2020 Ph.D. in Educational Neuroscience Outstanding Research Award, Gallaudet University
- 2019 Travel Award (Helsinki, Finland), Office of the Dean, Graduate School, Gallaudet University
- 2019 Travel Award (San Francisco, CA), Office of the Dean, Graduate School, Gallaudet University
- 2018 Travel Award (Boston, MA), Office of the Dean, Graduate School, Gallaudet University
- 2018 Travel Award (San Diego, CA), Office of the Dean, Graduate School, Gallaudet University
- 2018 Travel Award (Québec City, Canada), Office of the Dean, Graduate School, Gallaudet University
- 2018 Travel Award (Québec City, Canada), Society for the Neurobiology of Language
- 2017 Ph.D. in Educational Neuroscience Research-Based Translation Award, Gallaudet University
- 2017 Training Scholarship (Johns Hopkins University), T. R. and V. M. Johnson Scholarship Foundation
- 2014 Honors B.S. with distinction (*summa cum laude*), The Honors College, Texas A&M University-Kingsville
- 2014 Travel Award (Houston, TX), The Honors College, Texas A&M University-Kingsville
- 2013 Best Undergraduate Presentation, Texas A&M University-System Pathways Research Symposium
- 2013 Debater of the Year, Department of Art, Communication, and Theater, Texas A&M University-Kingsville

### Manuscripts

1. **White, B.E.** (2019, July). *The role of auditory experience in the neurocognitive systems for everyday and effortful listening* (Doctoral dissertation, Gallaudet University).
2. **White, B. E.** (2017, May). *A longitudinal investigation of the relation between numerical estimation skill and brain activation during arithmetic* (Doctoral qualifying paper, Gallaudet University).
3. **White, B. E.** (2014, May). *Auditory Attention Processing in Aphasia* (Honors B.S. thesis, Texas A&M University-Kingsville).

### Conference Presentations and Posters

1. **White, B.E.**, & Langdon, C. (2019, August). *Listening experience and syntactic complexity modulate neural networks for speech and language: A functional near-infrared spectroscopy study*. Poster presentation at the annual meeting of the Society for the Neurobiology of Language, Helsinki, Finland.
2. **White, B. E.**, Berger, L., & Langdon, C. (2019, March). *Early auditory experience modulates resting state functional connectivity networks: A functional near-infrared spectroscopy study*. Poster presentation at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
3. **White, B. E.**, Kushalnagar, P., & Langdon, C. (2018, November). *The role of auditory experience in patient reported outcomes and task performance for effortful listening*. Poster presentation at the annual convention of the American Speech, Language, and Hearing Association, Boston, MA.
4. **White, B. E.**, & Langdon, C. (2018, November). *Functional connectivity in the language network in response to syntactic complexity and acoustic degradation: A functional near-infrared spectroscopy study*. Poster presentation at the annual meeting of the Society for Neuroscience, San Diego, CA.

5. **White, B. E., & Langdon, C.** (2018, November). *The role of auditory experience in the neural systems for effortful listening*. Poster presentation at the annual symposium on Advances and Perspectives in Auditory Neuroscience, San Diego, CA.
6. **White, B. E., & Langdon, C.** (2018, October). *The role of auditory experience in the neurobiological systems for effortful listening*. Translational presentation at the annual Gallaudet University Research Expo on Interdisciplinary Research, Washington, DC.
7. **White, B. E., & Langdon, C.** (2018, August). *Hierarchical processing of degraded speech: A functional near-infrared spectroscopy study*. Poster presentation at the annual meeting of the Society for the Neurobiology of Language, Québec City, QC, Canada.
8. **White, B. E., & Langdon, C.** (2018, January). *Auditory experience and the neurobiological systems for effortful listening: A combined optical neuroimaging and thermal infrared imaging study*. Presentation at the Mid-Atlantic Symposium on Hearing, College Park, MD.
9. **White, B. E., & Langdon, C.** (2017, March). *Investigating the neural systems for effortful listening: A combined fNIRS and fIRT imaging study*. Poster presentation at the annual Gallaudet University Research Expo on, Washington, DC.
10. **White, B. E.** (2014, May). *Auditory attention processing in aphasia*. Presentation at the Texas A&M University-Kingsville Honors College Research Symposium, Kingsville, TX.
11. **White, B. E., Swartz, E., & Ball, A.** (2014, March). *Non-language auditory attention processing in aphasia*. Presentation at the 58th Annual Convention and Exhibition of the Texas Speech-Language-Hearing Association, Houston, TX.
12. **White, B. E., Swartz, E., & Ball, A.** (2013, November). *Non-language auditory attention processing in aphasia*. Presentation at the Texas A&M University System Annual Pathways Student Research Symposium, Kingsville, TX.

#### **Invited Talks and Guest Lectures**

1. **White, B. E.** (2020, February). *Listening Effort and Neurocognitive Plasticity in Hearing Aid and Cochlear Implant Users*. Presentation at the Department of Linguistics and Cognitive Science, University of Delaware, Newark, DE.
2. **White, B. E.** (2018, October). *Descriptive and inferential statistics in R*. Presentation at the Ph.D. in Educational Neuroscience Program, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
3. **White, B. E.** (2018, September). *Statistical programming in R*. Presentation at the Ph.D. in Educational Neuroscience Program, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
4. **White, B. E.** (2018, May). *The role of auditory experience on the neurobiological systems for effortful listening*. Presentation at the Neuroimaging with fNIRS: Basic to Advanced Concepts workshop hosted by NIRx Medical Technologies, Ph.D. in Educational Neuroscience Program, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
5. **White, B. E.** (2018, April). *Resting state functional connectivity: Methodological and statistical approaches for functional near-infrared spectroscopy*. Presentation at the Language and Educational Neuroscience Laboratory, Ph.D. in Educational Neuroscience Program, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
6. **White, B. E.** (2018, April). *Task-based functional connectivity: Methodological and statistical approaches for functional near-infrared spectroscopy*. Presentation at the Language and Educational Neuroscience Laboratory, Ph.D. in Educational Neuroscience Program, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
7. **White, B. E.** (2017, October). *Auditory perception in sensorineural hearing loss*. Presentation at the Department of Psychological and Brain Sciences, Johns Hopkins University, Baltimore, MD.
8. **White, B. E.** (2017, September). *Programming and inferential statistics in R*. Presentation at the Ph.D. in Educational Neuroscience Program, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.

9. **White, B. E.** (2017, September). *Introduction to programming and descriptive statistics in R and RStudio*. Presentation at the Ph.D. in Educational Neuroscience Program, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
10. **White, B. E.** (2017, June). *Language acquisition in the auditory, visual, and tactile modalities*. Presentation at the annual National Federation of the Blind Youth Slam, Towson, MD.
11. **White, B. E.** & Berteletti, I. (2017, June). *A longitudinal investigation of the relation between numerical estimation skill and brain activation during arithmetic*. Presentation at the Neuroplasticity and Development Laboratory, Department of Psychological and Brain Sciences, Johns Hopkins University, Baltimore, MD.
12. **White, B. E.** (2016, June). *Zombie brainz: An introduction to neuroimaging data analysis for young scholars*. Presentation at the annual Young Scholars Program: Exploring the Sciences, Gallaudet University, Washington, DC.
13. Andriola, D., & **White, B. E.** (2016, May). *Early language acquisition*. Presentation at the Family Support and Research Center, Maryland School for the Deaf-Columbia, Columbia, MD.
14. Kubicek, E., **White, B. E.**, & Williams, J. (2015, December). *Speech, language, and hearing sciences*. Presentation at the annual Student Network Retreat, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
15. Contreras, J., & **White, B. E.** (2014, November). Language assessments and what they mean for researchers. Presentation at the annual Student Network Retreat, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
16. **White, B. E.**, & Harvey, S. (2014, November). *The Petitto Brain and Language Laboratory for Neuroimaging (BL2): Brief introduction and overview*. Presentation at the annual Student Network Retreat, NSF-Gallaudet University Science of Learning Center, Visual Language and Visual Learning, Washington, DC.
17. **White, B. E.** (2014, March). *Congenital sensorineural hearing loss: A narrative and commentary*. Presentation at the American Sign Language and Interpreting Program Forum, Del Mar College, Corpus Christi, TX.
18. **White, B. E.**, Elizondo, S., & Garcia, M. (2014, February). *Introduction to hearing amplification devices, aids, and implants*. Presentation at the Student Audiology Forum, Texas A&M University-Kingsville, Kingsville, TX.
19. **White, B. E.** (2014, January). *Introduction to models of disability*. Presentation at the Student Audiology Forum, Texas A&M University-Kingsville, Kingsville, TX.
20. **White, B. E.** (2013, November). *Overview of the electrophysiology of the brain and introduction to electroencephalography (EEG)*. Presentation at the Department of Clinical Health Sciences, Texas A&M University-Kingsville, Kingsville, TX.
21. **White, B. E.** (2013, November). *The use of electroencephalography in aphasia and apraxia*. Presentation at the Department of Clinical Health Sciences, Texas A&M University-Kingsville, Kingsville, TX.
22. **White, B. E.**, Becerra, M., Elizondo, S., & Garcia, M. (2013, November). *Introduction to hearing amplification devices, aids, and implants*. Presentation at the Student Audiology Forum, Texas A&M University-Kingsville, Kingsville, TX.
23. **White, B. E.** (2013, October). *Hearing loss and hearing loss prevention*. Presentation at the Student Audiology Forum, Texas A&M University-Kingsville, Kingsville, TX.
24. **White, B. E.** (2013, September). *Audiology: An overview*. Presentation at the Student Audiology Forum, Texas A&M University-Kingsville, Kingsville, TX.
25. **White, B. E.** (2013, June). *Electroencephalography (EEG): An overview and timeline*. Presentation at the Department of Clinical Health Sciences, Texas A&M University-Kingsville, Kingsville, TX.

#### Other Deliverables

1. **White, B. E.** (2018, April). *Building the visual vocabulary: A resource guide on vocabulary development in young deaf and hard-of-hearing children*. Available at <https://www.visvoc.bradleywhite.net>
2. **White, B. E.** (2018, April). *Tips for facilitating vocabulary development: A resource guide on vocabulary development in young deaf and hard-of-hearing children*. Available at <https://www.visvoc.bradleywhite.net/assets/files/white16-tipsforfacilitatingvocabularydevelopment.pdf>

3. **White, B. E.** (2018, April). *Language development timeline (0-5 years old): A resource guide on vocabulary development in young deaf and hard-of-hearing children*. Available at <https://www.visvoc.bradleywhite.net/assets/files/white16-languagedevelopmenttimeline.pdf>
4. Parks, A., **White, B. E.**, Lancaster, L., and Bakke, M. (2018, April). *The test-retest reliability of the Early Speech Perception Test in adults with severe to profound hearing levels*. Poster presentation at the Department of Hearing, Speech, and Language Sciences, Gallaudet University, Washington, DC.
5. Parks, A., **White, B. E.**, Lancaster, L., and Bakke, M. (2018, February). *The role of pure-tone average and auditory linguistic experience on word recognition and pattern perception ability in adults with severe to profound hearing levels*. Poster presentation at the Department of Hearing, Speech, and Language Sciences, Gallaudet University, Washington, DC.

### **Pending Research Support**

NIH NICHD K99/R00, White (PI) 04/2021 – 03/2026  
*School readiness and developmental neuroplasticity in children with hearing aids and cochlear implants*  
 Roles: White (PI), Petitto (Mentor)  
 Total Award: \$1,066,560

RSIA PRF, Gallaudet University, White (PI) 10/2020 – 09/2023  
*School readiness and developmental neuroplasticity in children with hearing aids and cochlear implants*  
 Roles: White (PI), Petitto (Co-PI)  
 Total Award: \$105,000

### **Completed Research Support**

RSIA SRG, Gallaudet University, White (PI) 03/2018 – 08/2019  
*The role of auditory experience in the neurocognitive systems for everyday and effortful listening*  
 Roles: White (PI), Langdon (Co-PI)  
 Total Award: \$2,500

PEN Doctoral Research Fellowship, Gallaudet University 08/2015 – 08/2019  
 Roles: White (Fellow), Langdon (Mentor)  
 Pre-doctoral award to Bradley E. White  
 Total Award: \$208,859

### **Teaching (Gallaudet University)**

2018 Fall Teaching Assistant, *New Directions in Neuroethics*  
 2018 Fall Teaching Assistant, *Contemporary Methods in Neuroimaging*  
 2015 Spring Teaching Assistant, *Audiology & Hearing Technology for Educators & Counseling Professionals*

### **Languages**

English, fluent, native  
 American Sign Language, fluent