

## SWATHI KIRAN

Department of Speech, Language, and Hearing Sciences,  
Boston University Sargent College, 635 Commonwealth Ave.  
Boston, MA 02215

617-358-5478 (phone); (617)-353-5074 (fax)

[kirans@bu.edu](mailto:kirans@bu.edu)

<http://www.bu.edu/aphasiaresearch/>

### EDUCATION

2001 Ph.D. Northwestern University (Speech Language Pathology)  
1998 M.A. Northwestern University (Speech Language Pathology)  
1995 B. Sc. All India Institute of Speech & Hearing (Speech Path /Audiology)

### APPOINTMENTS

2018- present Associate Dean for Research, Sargent College of Health and  
Rehabilitation Sciences, Boston University  
2018- present Faculty, Boston University Neurophotonics Center (NPC)  
2017- 2020 Consultant, The Learning Corporation (FKA Constant Therapy)  
2016- present Faculty, Hariri Institute of Computing and Computational Sciences,  
Boston University  
2016-present Faculty, CRESCENT, Boston University  
2014-present Professor, Department of Speech, Language, and Hearing Sciences,  
Boston University Sargent College of Health Sciences  
2014-present Faculty, Center for Systems Neuroscience, Boston University  
2012-2017 Co-Founder, Chief Scientific Advisor, Constant Therapy  
2010-present Faculty, Joint Programmatic Appointment, Undergraduate Program in  
Neuroscience, Boston University  
2009-present Member, Graduate Program in Neuroscience, Boston University  
2009-present Research Director, Aphasia Resource Center, Boston University  
2009-present Massachusetts General Hospital, Assistant in Neuroscience/Neurology  
2009 -2013 Associate Professor, Department of Speech, Language, and Hearing  
Sciences, Boston University Sargent College of Health Sciences  
2009-2011 Adjunct Associate Professor, Department of Communication Sciences and  
Disorders, University of Texas at Austin  
2003-2008 Member, Institute for Neuroscience, University of Texas at Austin  
2008 Associate Professor, Department of Communication Sciences and  
Disorders, University of Texas at Austin  
2002-2008 Assistant Professor, Department of Communication Sciences and  
Disorders, University of Texas at Austin  
2001- 2002 Clinical Fellow, Healthsouth Rehabilitation Hospital, Austin  
2001 Clinical Fellow, Advanced Therapy and Rehabilitation, Bloomingdale, IL.

### HONOR AND AWARDS

2015 Invited Attendee, White House Initiative on Precision Medicine

- 2013 Fellow, American Speech Language and Hearing Association
- 2013 Thomas McMahon Mentoring Award. Honorable Mention. Harvard-MIT Health Sciences and Technology Program.
- 2012 Faculty Mentor, ASHA Clinical Practice Research Institute (CPRI)
- 2010 Nomination for 2011 Callier Prize in Communication Disorders
- 2010 Deans Research Award
- 2009 Mentor, Advancement of Academic and Research Career Award (AARC), American Speech Language and Hearing Association, Mentee: Naomi Hashimoto
- 2008 Best Research Paper Award, College of Communication, University of Texas at Austin
- 2008 Reddick Award, University of Texas at Austin
- 2007 Mentor, Advancement of Academic and Research Career Award (AARC), American Speech Language and Hearing Association, Mentee: Sharon Antonucci.
- 2005 Advancement of Academic and Research Career Award (AARC), American Speech Language and Hearing Association.
- 2004 Member, Academy of Aphasia
- 2003 Dean's Fellowship, University of Texas at Austin
- 2001 Cognitive Science Society Travel Fellowship

## **PROFESSIONAL ACTIVITIES**

### ***International:***

- 2019 Associate Editor, Brain and Language
- 2018 Board of Governors, Academy of Aphasia
- 2018 Conference Chair, Clinical Aphasiology Conference
- 2018 Associate Editor, *Frontiers In Neurology: Stroke*
- 2017 Program Chair, Clinical Aphasiology Conference
- 2017 Reviewer, Human Brain Mapping Conference
- 2017 Grant reviewer, Wellcome Trust
- 2016 Program Chair, Academy of Aphasia Annual Conference
- 2016 Special Topics Editor, *Frontiers in Human Neuroscience*
- 2016 Special Topics Editor, *Neural Plasticity*
- 2016- present Review Editor, *Frontiers in Psychology: Cognition*
- 2016- present Editorial Board, *Bilingualism Language and Cognition*
- 2015 Reviewer, Human Brain Mapping Conference
- 2014- 2017 Editorial Board, *Journal of Neurolinguistics*
- 2014 External Reader, PhD thesis, Leena Toumiranta, Abo Akademi University, Finland.
- 2014 Reviewer, Human Brain Mapping Conference
- 2013 Grant reviewer, Health Research Board, Ireland
- 2010- present Public outreach officer, Academy of Aphasia
- 2010 Reviewer, Human Brain Mapping Conference
- 2012-2103 Member, Scientific Committee, International Symposium on Bilingualism (ISB9)
- 2012 External Examiner: PhD thesis, Ladan Ghaizi, University of Montreal, Canada.

- 2009 Reviewer, Human Brain Mapping Conference
- National:**
- 2019 Standing Member, NIH LCOM panel
- 2019 Committee Member, ASHA Lessons for Success Conference
- 2017 Organizer, *Aphasia and Language Recovery Symposium*. Boston University, CRESCENT, Hariri Institute of Computing and Computational Sciences
- 2017 Chairperson, NIDCD VSL Special Emphasis Panel
- 2016- present Ad-hoc member, VA Merit Review Panel, NIH F01B, LCOM, CDRC panels
- 2016 Faculty Mentor, ASHA Lessons for Success Conference
- 2015- present Member, Research and Education Committee, Aphasia Access
- 2011-2015 Standing Member, NIH/NIDCD CDRC review panel
- 2014-2015 Member, Strategic Planning Committee for ASHA Journals Program.
- 2011- Present Member, Organizing Committee, *NIDCD R13 DC006295: Research Symposium in Clinical Aphasiology*
- 2014 Reviewer, ASHA Grantsmanship and Reviewer Training Program. Organized by American Speech Language and Hearing Association and American Speech Language Foundation.
- 2010-2017 Associate Editor: *Language, Journal of Speech Language and Hearing Research*
- 2011-2014 Editor, *AJSLP Clinical Aphasiology Conference* Special Issue
- 2013 Reviewer, American Speech Language and Hearing Foundation: *New Investigator and New Century Scholars Grant Program*
- 2009-2011 Committee Member, Research & Scientific Affairs, American Speech Language and Hearing Association
- 2009-2011 Faculty Mentor, Fourth Annual ‘Lessons for Success: Developing the Emerging Scientist.’ American Speech Language and Hearing Association.
- 2010 Reviewer, American Heart Association, Brain and Clinical Sciences Division
- 2010 Ad hoc reviewer, NIH – LCOM review panel
- 2009 Reviewer, American Speech Language and Hearing Foundation: *New Investigator and New Century Scholars Grant Program*
- 2009 Ad hoc reviewer, NIDCD Special Emphasis Panel
- 2008 Reviewer, Cognitive Science Society (2008)
- 2006 ASHA Grantsmanship and Reviewer Training Program. Organized by American Speech Language and Hearing Association and American Speech Language Foundation. Total participants 15.
- 2007 Program Committee, Clinical Aphasiology Conference (2008)
- 2006 Reviewer, American Speech Language and Hearing Foundation: *New Investigator and New Century Scholars Grant Program*
- 2006 Program Committee, Adult Language Disorders, ASHA Convention
- 2006 Guest Editor, American Speech Language and Hearing Association: Special Interest Division 2: Perspectives
- 2005 Program Committee, Adult Language Disorders, ASHA Convention

- 2004 Reviewer, *Retirement Research Foundation*  
 2003 Action Editor, Aphasiology- Clinical Aphasiology Conference Special Issue  
 1999-2003 Vice-President, Asian Indian Caucus, American Speech-Language and Hearing Association

Reviewer for National and International Journals- *Aphasiology, American Journal of Medical Speech Pathology, American Journal of Speech Language Pathology, Brain, Brain and Language, Bilingualism, Language and Cognition, Neuroimage, Cognition, Cortex, Cognitive Neuropsychology, Journal of Neurolinguistics, Journal of Speech Language and Hearing Research, Neurocase, Neuroimage, Neuropsychological Rehabilitation.*

**University Level:**

- 2019 Member, College of Arts and Sciences Dean Search Committee  
 2018 Member, Boston University Strategic Planning Committee  
 2018 Member, Conflicts of Interest Committee, Boston University  
 2015-17 Chair, University Tenure and Promotion Committee  
 2015-present Member, University Research Council  
 2014 Member, University Tenure and Promotion Committee  
 2013 Member, Dean's Search Committee, Sargent College  
 2010 Member, Search Committee, Department of Speech and Hearing sciences  
 201, 2009 Member, Graduate Education Committee, Sargent College,  
 2010,2009 Chair, Adult Comprehensive Exam Committee, SLHS  
 2009 Chair, Speech and Hearing Senior Faculty Search Committee

**GRANTS**

**Externally funded**

*Research*

- 2019-2022 NIH/NIDCD 1R01DC015961-01A1 *Functional reorganization of the language and domain-general multiple demand systems in aphasia.* MPI: Swathi Kiran (\$3,594,247).  
 2018-2020 NIH/ NIBIB R01EB026998 Next-generation optical brain functional imaging platform (PI: Qianqian Fang; Role: subcontract)  
 2018-2023 NIH/NIDCD R13 1R13DC017375-01, *Academy of Aphasia Research and Training Symposium.* PI: Swathi Kiran (\$192,618)  
 2016-2021 NIH/NIDCD 1U01DC014922. *Predicting rehabilitation outcomes in bilingual aphasia using computational modeling.* MPI: Swathi Kiran (\$3,269,847)  
 2015-2017 ASHA Office of Multicultural Affairs. Projects on multicultural activities *Development of a Free Online Interactive Naming Therapy for Bilingual Aphasia.* PIs: Chaleece Sandberg, Teresa Gray, Swathi Kiran  
 2013-2018 NIDCD/NIH 1P50DC012283-01 *Neurobiology of language recovery in aphasia, natural and treatment induced recovery.* PI: Cynthia Thompson, (\$7,500,000) Sub Project PIs Swathi Kiran (BU: \$791,855)

- 2009-2015 NIDCD/NIH R21/R33DC010461-01 *Theoretically based treatment for sentence comprehension deficits in aphasia* (\$1,615,519), PD/PI: Swathi Kiran
- 2012-2013 Coulter Foundation Translational Award. *Validation of an iPad therapy for individuals with post-stroke aphasia*. (\$124,000) PI: Swathi Kiran, Cara Stepp.
- 2011-2013 NIDCD/NIH 1K18DC011517-01 Mentored Clinical Development Grant. *Application of Multimodal Imaging Techniques to Examine Language Recovery in Post Stroke Aphasia* (\$253,478) PI: Swathi Kiran
- 2008-2011 ASHA foundation Clinical Research Grant. *Effect of a semantic based naming treatment on crosslinguistic generalization in bilingual patients with aphasia*. (\$50,000). PI: Swathi Kiran
- 2009-2012 NIH/NIDCD 1R21DC009446. *Computational and Behavioral Evidence for Bilingual Aphasia Rehabilitation*. (\$275,000). PIs: Swathi Kiran, Risto Miiikkulainen
- 2007-2008 ASHA Office of Multicultural Affairs. Projects on multicultural activities *The validation of a language use questionnaire across bilingual clinical populations*. (\$11,720). PIs: Swathi Kiran, Elizabeth Pena, Lisa Bedore.
- 2003-2006 NIDCD R03 DC 6359-01. *Semantic complexity and treatment for lexical access* (\$216,000) PI: Swathi Kiran
- 2003-2004 ASHA foundation New Century Research Scholars Grant. (\$10,000) *Effect of semantic complexity on treatment of lexical access*
- 2002-2003 ASHA foundation New Investigator Award. (\$5000) *Effect of semantic treatment on crosslinguistic generalization in bilingual aphasia*

### **Training**

- 2019- 2021 NIH/NIDCD 1F31DC017892-01A1. *Behavioral and Neural Effects of Intensive Cognitive-Communication Rehabilitation in Young College-Bound Adults with Acquired Brain Injury*. PI: Natalie Gilmore, Mentor Swathi Kiran.
- 2017-2019 NIH 1F31DC015940-01A1. *Structural and Effective Connectivity of Reorganized Language Networks in Aphasia* PI: Erin Meier, Mentor: Swathi Kiran
- 2016- 2018 NIH 1F32DC015163-01A1. *Mechanisms of adaptation in (healthy and aphasic) noisy-channel comprehension*. PI: Rachel Ryskin; Co-Mentor: Swathi Kiran
- 2015-2020 NIH 1 K99 DC014520-01. *Neural markers of speech error detection and correction abilities in aphasia*. PI: Carrie Niziolek; Co-Mentor: Swathi Kiran
- 2015-2020 NIH T32 DC013017-01A1. *Bridging Basic, Translation and Clinical Research in Communication Disorders* (PIs C. Moore, B. Shinn-Cunningham). Role: Executive Committee Member and Preceptor
- 2012-2014 NIH 5F31DC011220-02. *Changes in Neural Patterns in Persons with Aphasia Following Theory-Based Generative Naming Treatment (NRSA)*. PI: Chaleece Sandberg, Mentor: Swathi Kiran

2004-2009 NIH DA 018926-04, INS Training Grant. Funded. *Pre-Doctoral Training in Interdisciplinary Neuroscience*, (PI: Adron Harris) (Role: Associate Preceptor, Role: mentoring Ph.D students).

### ***Internally funded***

2013-2014 Dudley Allen Sargent grant, Sargent College of Health and Rehabilitation Sciences, Boston University, “*Understanding the nature of resting state connectivity in individuals with post-stroke aphasia.*” (\$7000)

2011-2012 Dudley Allen Sargent grant, Sargent College of Health and Rehabilitation Sciences, Boston University, “*Neural basis of semantic processing in bilingual aphasia*” (\$7000)

2009-2010 Dudley Allen Sargent grant, Sargent College of Health and Rehabilitation Sciences, Boston University, “*Treatment modulated neural activation patterns in patients with aphasia*” (\$7000)

2004-2005 Faculty Research Grant, Vice President for Research, UT-Austin, 2004-05. “*Neural correlates of semantic treatment in aphasia.*” (\$6000).

2003 Summer Research Assignment, University of Texas at Austin, “*Naming treatment in bilingual aphasia*”

2002 Summer Research Assignment, University of Texas at Austin, “*Model based treatment of reading, writing and naming deficits in aphasia*”

2000 Effect of exemplar typicality on treatment of naming deficits in aphasia. Graduate Research Grant, Northwestern University, 2000. (\$1500)

## **PUBLICATIONS**

### **Journal Articles**

1. Johnson, J.P., Meier, E.L., Pan, Y., & **Kiran, S.** (under review). Functional connectivity and network topology normalize in chronic stroke patients who benefit from naming treatment.
2. Johnson, J. P., Meier, E. L., Pan, Y., & **Kiran, S.** (2020). Pre-treatment graph measures of a functional semantic network are associated with naming therapy outcomes in chronic aphasia. *Brain and Language*, 207, 104809. doi:10.1016/j.bandl.2020.104809
3. Angelopoulou, G., Meier, E. L., Kasselimis, D., Pan, Y., Tsolakopoulos, D., Velonakis, G., . . . **Kiran, S.** (2020). Investigating Gray and White Matter Structural Substrates of Sex Differences in the Narrative Abilities of Healthy Adults. *Frontiers in neuroscience*, 13(1424). doi:10.3389/fnins.2019.01424
4. Dekhtyar, M., Braun, E. J., Billot, A., Foo, L., & **Kiran, S.** (2020). Videoconference Administration of the Western Aphasia Battery-Revised: Feasibility and Validity. *Am J Speech Lang Pathol*, 1-15. doi:10.1044/2019\_AJSLP-19-00023
5. Dekhtyar, M., **Kiran, S.**, & Gray, T. (2020). Is bilingualism protective for adults with aphasia? *Neuropsychologia*, 139, 107355. doi:10.1016/j.neuropsychologia.2020.107355
6. Carpenter, E., Rao, L., Penaloza, C., & **Kiran, S.** (in press). Verbal fluency as a measure of lexical access and cognitive control in bilinguals with aphasia. *Aphasiology*.

7. Gu, Y., Bahrani, M., Billot, A., Lai, S., Braun, E. J., Varkanitsa, M., . . . Betke, M. (2020, June 30-July 3, 2020). *A Machine Learning Approach for Predicting Post-stroke Aphasia Recovery: A Pilot Study*. Paper presented at the Association for Computing Machinery (ACM) Conference on PErvasive Technologies Related to Assistive Environments (PETRA '20), Corfu, Greece.
8. Higgins, J., Barbieri, E., Wang, X., Mack, J., Caplan, D., **Kiran, S.**, . . . Parrish, T. (2020). Reliability of BOLD signals in chronic stroke-induced aphasia. *European Journal of Neuroscience* doi:10.1111/ejn.14739
9. Munsell, M., De Oliveira, E., Saxena, S., Godlove, J., & **Kiran, S.** (2020). Closing the Digital Divide in Speech, Language, and Cognitive Therapy: Cohort Study of the Factors Associated With Technology Usage for Rehabilitation. *Journal of medical Internet research*, 22(2), e16286. doi:10.2196/16286
10. Gilmore, N., Meier, E. L., Johnson, J. P., & Kiran, S. (2020). Typicality-based semantic treatment for anomia results in multiple levels of generalisation. *Neuropsychol Rehabil*, 30(5), 802-828. doi:10.1080/09602011.2018.1499533
11. Penalzoza, C., Barrett, K., & **Kiran, S.** (2019). The influence of prestroke proficiency on poststroke lexical-semantic performance in bilingual aphasia. *Aphasiology*. doi:DOI: 10.1080/02687038.2019.1666082
12. Johnson, J.P., Meier, E.L., Pan, Y., Caplan, D., & **Kiran, S.** (2019). Treatment-related changes in neural activation vary according to treatment response and extent of spared tissue in patients with chronic aphasia. *Cortex*, 2019 Sep 19;121:147-168. doi: 10.1016/j.cortex.2019.08.016. PMID: 31627014
13. Sandberg, C., Gray, T., & Kiran, S. (2020). Development of a Free Online Interactive Naming Therapy for Bilingual Aphasia. *Am J Speech Lang Pathol*, 29(1), 20-29. doi:10.1044/2019\_AJSLP-19-0035 PMID: 31689369
14. Meier, E. L., Johnson, J. P., Pan, Y., & **Kiran, S.** (2019). A connectivity-based hierarchical model of chronic aphasia recovery dissociates subgroups of patients and healthy controls. *Neuroimage: Clinical*;23:101919. doi: 10.1016/j.nicl.2019.101919. Epub 2019 Jul 2. PMID: 31491828
15. **Kiran, S.** and Thompson C.K., (2019) Neuroplasticity of Language Networks in Aphasia: Advances, Updates, and Future Challenges. *Frontiers in Neurology: Stroke*. 10:295. doi: 10.3389/fneur.2019.00295. PMCID: PMC6454116
16. Meier, E., Johnson, J., Pan, Y., & Kiran, S. (2019). The utility of lesion classification in predicting language and treatment outcomes in chronic stroke-induced aphasia. *Brain imaging and behavior*. doi:https://doi.org/10.1007/s11682-019-00118-3 PMCID: PMC6527352
17. Peñalzoza, C., Grasemann, U., Dekhtyar, M., Miikkulainen, R., & Kiran, S. (2019). BiLex: A computational approach to the effects of age of acquisition and language exposure on bilingual lexical access. *Brain and Language*, 195, 104643. doi:https://doi.org/10.1016/j.bandl.2019.104643. PMCID: PMC6692118
18. Godlove, J., Anantha, V., Advani, M., Des Roches, C., & **Kiran, S.** (2019). Comparison of therapy practice at home and in the clinic: A retrospective analysis of the Constant Therapy platform data set. *Frontiers in Neurology, Stroke*. Front. Neurol. | doi: 10.3389/fneur.2019.00140
19. Europa, E., Gitelman, D., **Kiran, S.**, Thompson, C.K. (2019). Neural connectivity in syntactic movement processing. *Frontiers in Human Neuroscience*. doi: 10.3389/fnhum.2019.00027

20. Gilmore, N., Meier, E. L., Johnson, J. P., & Kiran, S. (2019). Nonlinguistic Cognitive Factors Predict Treatment-Induced Recovery in Chronic Poststroke Aphasia. *Arch Phys Med Rehabil*, 100(7), 1251-1258. <https://doi.org/10.1016/j.apmr.2018.12.024>. PMID: PMC6599561
21. Gilmore, N., Dwyer, M., & Kiran, S. (2018). Benchmarks of significant change after post-stroke language rehabilitation. *Archives of Physical and Medical Rehabilitation*. <https://doi.org/10.1016/j.apmr.2018.08.177>. PMID: PMC6422764
22. Wallace SJ, Worrall L, Rose T, Le Dorze G, Breitenstein C, Hilari K, Babbitt E, Bose A, Brady M, Cherney LR, Copland D, Cruice M, Enderby P, Hersh D, Howe T, Kelly H, Kiran S, Laska AC, Marshall J, Nicholas M, Patterson J, Pearl G, Rochon E, Rose M, Sage K, Small S, Webster J. [A core outcome set for aphasia treatment research: The ROMA consensus statement](#). *Int J Stroke*. 2018 Oct 10:1747493018806200. doi: 10.1177/1747493018806200. [Epub ahead of print] PubMed PMID: 30303810.
23. Meier, E. L., Johnson, J. P., & Kiran, S. (2018). Frontotemporal effective connectivity during semantic feature judgments in patients with aphasia versus healthy controls. *Cortex*, 108, 173-192. <https://doi.org/10.1016/j.cortex.2018.08.006>. PubMed PMID 30243049
24. Ryskin, R., Futrell, R., Kiran, S., & Gibson, E. (2018). Comprehenders Model the Nature of Noise in the Environment. *Cognition*, 181, 141-150. PMID: PMC6252256
25. Niziolek, C., & Kiran, S., (2018). Assessing speech error correction with acoustic analyses: evidence of preserved online correction in persons with aphasia. *International Journal of Speech Pathology*. 2018 Nov;20(6):659-668. doi: 10.1080/17549507.2018.1498920. PMID: PMC6476704
26. Gilmore, N., Ross, K., & Kiran, S. (in press). The Intensive Cognitive-Communication Rehabilitation (ICCR) Program for Young Adults with Acquired Brain Injury (ABI). *American Journal of Speech Language Pathology*. 28(1S):341-358 11 Mar 2019 NIHMS1514821
27. Kasdan, A., & Kiran, S. (2018). Please don't stop the music: Song completion in patients with aphasia. *Journal of Communication Disorders*, 75, 72-86
28. Kastenbaum, J., Bedore, L., Pena, E., Sheng, L., Mavis, I., Sebastian, R., Vallila-Rohter, S., Kiran, S. (2018). The influence of language combination and proficiency on bilingual lexical access. *Bilingualism Language and Cognition*. 1-31. doi:10.1017/S1366728918000366. PubMed # 30983875 PMC # 6455973
29. Blank, I. A., Kiran, S., & Fedorenko, E. (2017). Can neuroimaging help aphasia researchers? Addressing generalizability, variability, and interpretability. *Cognitive Neuropsychology*, 34(6), 377-393. doi:10.1080/02643294.2017.1402756
30. Gray, T., & Kiran, S. (2018). The effect of task complexity on linguistic and non-linguistic control mechanisms in healthy bilingual adults and bilingual adults with aphasia. *Bilingualism Language and Cognition*, 1-19, doi:10.1017/S1366728917000712
31. Villard, S., & Kiran, S. (2018). Between-session and within-session intra-individual variability in attention in aphasia. *Neuropsychologia*, 109, 95-106. doi:10.1016/j.neuropsychologia.2017.12.005
32. Johnson, J. P., Ross, K., & Kiran, S. (2017). Multi-step treatment for acquired alexia and agraphia (Part I): efficacy, generalisation, and identification of beneficial



- treatment steps. *Neuropsychol Rehabil*, 10.1080/09602011.2017.1311271, 1-31. doi:10.1080/09602011.2017.1311271
33. Ross, K., Johnson, J. P., & **Kiran, S.** (2017). Multi-step treatment for acquired alexia and agraphia (part II): a dual-route error scoring system. *Neuropsychol Rehabil*, 10.1080/09602011.2017.1311796, 1-40. doi:10.1080/09602011.2017.1311796
  34. Des Roches, C.A. & **Kiran, S.** (2017) Technology-Based Rehabilitation to Improve Communication after Acquired Brain Injury. *Frontiers in Human Neuroscience*. 11:382.doi: 10.3389/fnins.2017.00382
  35. Lukic, S., Barbieri., E., Wang, X., Caplan, D., **Kiran, S.**, Rapp., B., Parrish, T., & Thompson, C. (2017). Right Hemisphere Grey Matter Volume and Language Recovery in Stroke Aphasia. *Neural Plasticity*. <https://doi.org/10.1155/2017/5601509>
  36. Thompson, C. K., Walenski, M., Chen, Y., Caplan, D., **Kiran, S.**, Rapp, B., ... Parrish, T. B. (2017). Intrahemispheric Perfusion in Chronic Stroke-Induced Aphasia. *Neural Plasticity*, 2017, [2361691]. DOI: [10.1155/2017/2361691](https://doi.org/10.1155/2017/2361691)
  37. Meier, E. L., Johnson, J. P., Villard, S., & **Kiran, S.** (2017). Does Naming Therapy Make Ordering in a Restaurant Easier? Dynamics of Co-Occurring Change in Cognitive-Linguistic and Functional Communication Skills in Aphasia. *Am J Speech Lang Pathol*, 10.1044/2016\_AJSLP-16-0028, 1-15. doi:10.1044/2016\_AJSLP-16-0028
  38. Des Roches, C., Rohter, S., Villard, S., Tripodis, Y., Caplan, D., & **Kiran, S.** (2017). Evaluating treatment and generalization patterns of two theoretically motivated sentence comprehension therapies. *American Journal of Speech Language Pathology*. December 2016, Vol. 25, S743-S757. doi:10.1044/2016\_AJSLP-15-0134
  39. Des Roches, C., Mitko, A., **Kiran, S.**, (2017). Relationship between level of assistance and rehabilitation outcomes in individuals with aphasia: Understanding individual responsiveness to a technology-based rehabilitation program. *Frontiers in Human Neuroscience*. 11, 7, doi: 10.3389/fnhum.2017.00007
  40. Villard, S., & **Kiran, S.** (2016). To what extent does attention underlie language in aphasia? *Aphasiology*, 1-20. doi:10.1080/02687038.2016.1242711
  41. Bose, A., Wood, R., & **Kiran, S.** (2016). Semantic fluency in aphasia: clustering and switching in the course of 1 minute. *International journal of language & communication disorders / Royal College of Speech & Language Therapists*. doi:10.1111/1460-6984.12276
  42. Meier, E. L., Kapse, K. J., & **Kiran, S.** (2016). The Relationship between Frontotemporal Effective Connectivity during Picture Naming, Behavior, and Preserved Cortical Tissue in Chronic Aphasia. *Frontiers in Human Neuroscience*, 10, 109. doi: 10.3389/fnhum.2016.00109
  43. **Kiran S.** (2016). How Does Severity of Aphasia Influence Individual Responsiveness to Rehabilitation? Using Big Data to Understand Theories of Aphasia Rehabilitation. *Semin Speech Lang*. 37(1):48-60. PubMed PMID: 26882364
  44. Sims, J., Kapse, K., Glynn, P., Sandberg, C., & **Kiran, S.** (2016). The Relationships between the Amount of Spared Tissue, Percent Signal Change, and Accuracy in Semantic Processing in Aphasia. *Neuropsychologia*. PubMed PMID: 26775192
  45. Gibson, E. Sandberg, C., Fedorenko, E., Bergen, L., & **Kiran, S.** (2015). A rational inference approach to aphasic language comprehension. *Aphasiology*. DOI: 10.1080/02687038.2015.1111994

46. Sandberg, C., Bohland, J., & **Kiran, S.** (2015). Neural plasticity related to direct training and generalization effects of word finding treatment in chronic aphasia. *Brain and Language*. 150, 103-116. PMID: PMC4663144.
47. Meier, E. Lo, M., & **Kiran, S.**, (2015). Understanding semantic and phonological deficits in aphasia: effects of category and typicality in semantic processing. *Aphasiology*, DOI: 10.1080/02687038.2015.1081137 *NIHMSID* 714642.
48. Keane, C., & **Kiran, S.**, (2015). The nature of facilitation and interference in the multilingual language system: Insights from treatment in a case of trilingual aphasia. *Cognitive Neuropsychology*, Special Issue: Treatment as a tool for investigating cognition. 32 (3-4), 169-194. PubMed PMID: 26377506.
49. Vallila-Rohter, S., & **Kiran, S.** (2015). An examination of strategy implementation during abstract Nonlinguistic category-learning in aphasia. *Journal of Speech, Language, and Hearing Research*, August 2015, Vol. 58, 1195-1209. doi:10.1044/2015\_JSLHR-L-14-0257. PMID:[PMC4540635](#)
50. **Kiran S**, Meier E<sub>L</sub>, Kapse KJ and Glynn PA (2015) Changes in task-based effective connectivity in language networks following rehabilitation in post-stroke patients with aphasia. *Frontiers in Human Neuroscience*. 9:316. doi: 10.3389/fnhum.2015.00316. PubMed Central PMID: PMC4460429
51. Gray, T., & **Kiran, S.**, (2015). The relationship between language control and cognitive control in bilingual aphasia. *Bilingualism Language and Cognition*. 2-20; DOI: 10.1017/S1366728915000061
52. Villard, S., & **Kiran, S.** (2015). Between-session intra-individual variability in sustained, selective, and integrational non-linguistic attention in aphasia. *Neuropsychologia*. 66, 204-212, [doi:10.1016/j.neuropsychologia.2014.11.026](#). PMID: 25451043
53. Des Roches, C., Balachandran, I., Ascenso, E., Tripodis, Y., **Kiran, S.** (2015). Effectiveness of an impairment-based individualized treatment program using an iPad-based software platform. *Frontiers in Human Neuroscience*. doi: 10.3389/fnhum.2014.01015. PMID: [25601831](#)
54. **Kiran, S.**, Des Roches, C., Villard, S. & Tripodis, Y. (2015). The effect of a sentence comprehension treatment on discourse comprehension in aphasia. *Aphasiology*. DOI: 10.1080/02687038.2014.997182. PMID:[PMC4620060](#)
55. Johnson, J., & **Kiran, S.**, (2014). Preserving the flexibility of single-subject experimental design—a commentary on “Optimising the design of intervention studies: critiques and ways forward”. *Aphasiology*. DOI: 10.1080/02687038.2014.987047
56. **Kiran S.** (2014) Detecting Small and Large Fluctuations in Language and Cognitive Performance: A Longitudinal Rehabilitation Case Study. *Int J Phys Med Rehabil* 2:203. doi: 10.4172/2329-9096.1000203
57. Sandberg, C., & **Kiran, S.** (2014). How justice can affect jury: Training abstract words promotes generalisation to concrete words in patients with aphasia. *Neuropsychological Rehabilitation*, 1-32. doi: 10.1080/09602011.2014.899504. PMID: [24805853](#)
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#### **Book Chapters.**

1. **Peñaloz, C.**, & Kiran, S. (2019). Recovery patterns in multilingual aphasia. In: J. W. Schwieter, (Ed.), *The Handbook of the Neuroscience of Multilingualism* (553-571). New Jersey: Wiley-Blackwell Publishing.
2. **Kiran, S.**, & Gray, T., (2018). Understanding the nature of bilingual aphasia: Diagnosis, assessment and rehabilitation. *Studies in Bilingualism*. Jason Rothman & Ludovica Serratrice (Series Editors). Nadiia Denhovska & David Miller (Book Co-editors). John Benjamin Publishing Company, Netherlands.
3. Vallila-Rohter, S., & **Kiran, S.** (2015). Diagnosis and Treatment of Semantic Impairments. In A. Hillis (Ed.) *Handbook on Adult Language Disorders*. Taylor & Francis/Psychology Press, New York, NY 10017
4. **Kiran, S.**, & Roberts, P (2012). What do we know about assessing language impairment in bilingual aphasia? In: M. Gitterman, M. Goral, & L.K. Obler, L.K. (Eds.) *Aspects of Multilingual Aphasia*. Clevedon, UK: Multilingual Matters. pp 35-51.
5. **Kiran, S.** & Sandberg, C. (2011). Treating communication problems in individuals with disordered language. R. Peach and L. Shapiro (Eds.). *Cognition and Acquired Language Disorders: A Process-Oriented Approach*. Elsevier. London. Pp 298-326.
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8. Ramage, A, **Kiran, S.** & Robin, D. (October 2007). Has imaging advanced the science in aphasiology? A critical review of neuroimaging research in acquired adult language disorders. In R Ingham (Ed.). *Neuroimaging in Communication Sciences and Disorders*. San Diego, Plural Publishing.
9. Roberts, P. & **Kiran, S.** (2007). Assessment and treatment of bilingual aphasia and bilingual anomia. A. Ardila & E. Ramos (Eds.) *Speech and Language Disorders in Bilinguals*. Nova Science Publishers. New York, NY, pp 109-131.

#### **Peer Reviewed Conference Proceedings/Conference Abstracts**

1. **Kiran, S.**, Gray, T., & Kapse, K. (2013). Language Networks in English-Spanish Bilinguals with and without Aphasia. *51st Academy of Aphasia Proceedings*, 94(0), *Procedia - Social and Behavioral Sciences* 47–48. doi:10.1016/j.sbspro.2013.09.020

2. **Kiran, S.,** Kapse, K., & Lo, M. (2013). Changes in Task based Effective Connectivity Following Rehabilitation in Aphasia. *51st Academy of Aphasia Proceedings, 94(0), Procedia - Social and Behavioral Sciences* 79–80. doi:10.1016/j.sbspro.2013.09.037
3. Villard, S., & **Kiran, S.** (2013). Consistency of Selective and Focused Non-linguistic Attention in Aphasia. *51st Academy of Aphasia Proceedings, 94(0), Procedia - Social and Behavioral Sciences* 123–124. doi:10.1016/j.sbspro.2013.09.059
4. **Kiran, S.,** Balachandran, I., Lucas, J., & Gray, T. (2012). The Nature of Lexical Semantic Access in Bilingual Aphasia. *Procedia - Social and Behavioral Sciences, 61(0),* 195-196. doi: <http://dx.doi.org/10.1016/j.sbspro.2012.10.144>
5. Gray, T., & **Kiran, S.** (2012). Linguistic and Non-linguistic Interference Suppression in Bilingual Aphasia. *Procedia - Social and Behavioral Sciences, 61(0),* 191-192. doi: <http://dx.doi.org/10.1016/j.sbspro.2012.10.142>
6. **Kiran, S.,** Caplan, D., Villard, S., Ascenso, E., & Waters, G. (2012). Effects of Training Sentence to Picture-matching and Object Manipulation to Improve Sentence Comprehension in Aphasia: Acquisition and Generalization. *Procedia - Social and Behavioral Sciences, 61(0),* 144-145. doi: <http://dx.doi.org/10.1016/j.sbspro.2012.10.119>
7. **Kiran, S.,** Obler, L., Ansaldo, A., Goral, M., Tainturier, M.-J., & Roberts, P. (2011). What Do We Know about Impairment and Recovery of Language in Bi-Multilingual Aphasia? *Procedia - Social and Behavioral Sciences, 23(0),* 10-11. doi: 10.1016/j.sbspro.2011.09.145
8. **Kiran, S.,** & Roberts, P. (2011). Training the Weaker Language to Examine Between-Language Transfer in Bilingual Aphasia Rehabilitation. *Procedia - Social and Behavioral Sciences, 23(0),* 18-19. doi: 10.1016/j.sbspro.2011.09.149
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10. Grasmann, U., **Kiran, S.,** Sandberg, C., & Miikkulainen, R. (2010). Simulating Bilingual Aphasia: A Novel Computational Model. *Procedia - Social and Behavioral Sciences, 6(0),* 202-203. doi: 10.1016/j.sbspro.2010.08.101
11. Levy, J., **Kiran, S.,** Caplan, D., Berardino, A. & Sandberg, C. (2010). Development of a Test of Effects of Syntactic Comprehension Disorders on Discourse Comprehension. *Procedia - Social and Behavioral Sciences, 6(0),* 164-165. doi: 10.1016/j.sbspro.2010.08.081
12. **Kiran, S.,** Caplan, D., Sandberg, C., Levy, J., Berardino, A., & Simms, M. (2010). Development of a Theoretically Based Treatment For Sentence Comprehension Deficits in Aphasia. *Procedia - Social and Behavioral Sciences, 6(0),* 237-238. doi: 10.1016/j.sbspro.2010.08.119
13. **Kiran, S.** (2007). Recovery from brain damage: Role of exemplar typicality within categories. In D. S. McNamara & J. G. Trafton (Eds.), *Proceedings of the 29th Annual Conference of the Cognitive Science Society (COGSCI-07, Nashville, TN, p 201)*. Austin TX: Cognitive Science Society.
14. **Kiran, S.** (2007). *Effect of semantic based treatment on naming in bilingual aphasia: A follow up study*. Special Symposium on Communication Disorders in bilingual speakers. International Bilingualism Symposium. Hamburg, Germany.

15. **Kiran, S.** & Lebel, S. (2007). *Crosslinguistic semantic and translation priming in normal bilingual individuals and bilingual aphasia*. Cognitive Neuroscience Society, New York, NY.
16. **Kiran, S.** Shamapant, S., DeLyria. (2006). Typicality within well defined categories in aphasia. *Brain and Language*, 99, 149-151.
17. **Kiran, S.**, Ntourou, K., Eubank, S., & Shamapant, S. (2005). Typicality of inanimate category examples in aphasia: Further evidence for the semantic complexity effect. *Brain and Language*, 95 (1), 178-180.
18. **Kiran, S.**, & Edmonds, (2004). Effect of semantic naming treatment on crosslinguistic generalization in bilingual aphasia. *Brain and Language*, 91, 75-77.
19. **Kiran, S.**, Tuchtenhagen, J., & Spelman. (2003). Effect of training phoneme to grapheme conversion to improve written and oral deficits. *Brain and Language*, 87, 139-141
20. **Kiran, S.**, Thompson, C. K., & Medin, D. L. (2001). Effect of exemplar typicality of naming deficits in aphasia. In J. D. Moore & K. Stenning (Eds.), *Proceedings of the 23<sup>rd</sup> Annual Conference of the Cognitive Science Society (COGSCI-01, Edinburgh, UK)*, 528-533). Austin TX: Cognitive Science Society.
21. **Kiran, S.**, & Thompson, C.K. (2001). Typicality of category examples in aphasia. Evidence from reaction time and treatment data. *Brain and Language*, 79 (10), pp 27-31.
22. **Kiran, S.**, & Thompson, C.K. (2000). Grapheme to phoneme conversion treatment in patients with severe oral reading and naming deficits. *Brain and Language*, 74 (3), pp 452-457.
23. **Kiran, S.**, & Thompson, C. K. (1998). Lexical activation of polysemous word meanings in normal young and elderly individuals. *Brain and Language*, 65 (1)pp. 87-90.

### ***Non Peer Reviewed Publications***

1. Peñaloza, C. & Kiran, S. (2017). Neuroimaging evidence in the treatment of bilingual/multilingual adults with aphasia. *Perspectives ASHA SIGs*, 2 (SIG 2), 126-131.
2. Vallila-Rohter, S, & Kiran, S. (2017). Non-linguistic processing and aphasia. CE introduction. *Perspectives: Newsletter of ASHA SID 2*.
3. Kiran, S. & Goral, M. (2012, June 05). One Disorder, Multiple Languages. *The ASHA Leader*.
4. Kiran, S. (2008). Typicality treatment for naming deficits in aphasia: Why does it work? *Perspectives: Newsletter of ASHA SID 2*, 18 (1), 6-14.
5. Kiran, S. (2006). Pure alexia: Causes, Characteristics and Treatment. *ASHA SID 2 Newsletter*. April 2006.
6. Kiran, S. (2006). Uncommon Language Disorders: Guest Editor Introduction. *ASHA-SID2, Newsletter*. April 2006.
7. Kiran, S. (2003). A novel approach to treatment of aphasia: The semantic complexity hypothesis. *Asian Indian Caucus Newsletter*. April 2003.

### **PRESENTATIONS**

#### ***Invited Presentations***



**International:**

1. Kiran, S., (May, 2020). Predicting language recovery in aphasia. Aphasia Center for Research Excellence, Australia.
2. Kiran, S., (April, 2019). Understanding, facilitating and predicting language recovery in aphasia. Brazilian Academy of Audiology Congress, Iguassu Falls, Brazil.
3. Kiran, S., (November, 2018). Understanding, facilitating and predicting language recovery in aphasia. British Aphasiology Society, Sheffield, U.K.
4. Kiran, S., (August, 2018). Treatment approaches for aphasia. Workshop at QiQihar Medical University. QiQihar, China.
5. Kiran, S. (February, 2018). *Technological applications for aphasia*. World Federation of Neurorehabilitation, Mumbai, India
6. Kiran, S., (2018). *Understanding aphasia*. Plenary Speaker, 50<sup>th</sup> ISHACON meeting, Mysore, India.
7. Kiran, S., (2015). *Keynote address on perennial issues in aphasia*. National Conference on Clinical Aphasiology. All India Institute of Speech and Hearing, Mysore, India.
8. Kiran, S., (2015). *Principles of Neuroplasticity*. Samvaad Institute of Speech and Hearing, 10<sup>th</sup> Anniversary Celebrations. Bangalore, India.
9. Kiran, S. (2014). *Symposium on Language and cognitive control in bilinguals: Evidence from neuroimaging and neurological disorders*. World Federation of Neurology, Research Group on Aphasia and Cognitive Disorders, Hong Kong.
10. Kiran, S. (2014). *Bilingual Aphasia: Current Concepts*. Indo US Workshop on Cognitive Reserve in Dementia and Aphasia. An IUSSTF and DST Program. Hyderabad, India.
11. Kiran, S. (2014). *Ipad Based Constant Therapy in Aphasia*. Indo US Workshop on Cognitive Reserve in Dementia and Aphasia. An IUSSTF and DST Program. Hyderabad, India.
12. Kiran, S. (2013). *The nature of facilitation and inhibition in bilingual aphasia rehabilitation. Symposium on Bilingual Aphasia*. European Federation of Neuropsychology, Berlin Germany.
13. Kiran, S. (2012). *Understanding and predicting bilingual aphasia rehabilitation. Symposium on Bilingual Aphasia*. World Federation of Neurology, Research Group on Aphasia and Cognitive Disorders, Hyderabad, India.
14. Kiran, S. (2012). *New approaches to aphasia rehabilitation*. CME workshop on aphasia. Indore, India
15. Kiran, S. (2012). *Aphasia therapy with computers, technology and other self-help methods*. CME workshop on aphasia. Indore, India
16. Kiran, S. (2011). *Bilingual Aphasia Rehabilitation*. Symposium speaker. Science of Aphasia, IX. Barcelona, Spain.
17. Kiran, S. (2009). *Application of Neuroimaging in stroke recovery*. Continuing Medical Education Workshop. MNR Medical Institute, Andhra Pradesh, India.
18. Roberts, P., & Kiran, S. (2009). *PCI - Bilingual Aphasia: Evidence and Clinical Issues*. Day long workshop at Canadian Association of Speech Language Pathologists, London, Ontario.
19. Kiran, S. (2008, September). *Bilingual Aphasia: Factors affecting recovery and rehabilitation*. Science of Aphasia IX (SOA). Chalkidiki, Greece.

20. Kiran, S. (2007, June). *Rehabilitation of aphasia: Behavioral and Neuroimaging evidence*. MNR Medical College. Hyderabad, India

### ***National***

1. Kiran, S. (November, 2018). Neuroplasticity and language recovery in aphasia. 2018 Annual Research Symposium, American Speech Language and Hearing Association, Boston, MA.
2. Kiran, S. (November, 2018). Functional reorganization of the language system in aphasia. Annual Academy of Neurological Communication Disorders and Sciences. Boston, MA.
3. Kiran, S. (November, 2018), Understanding Aphasia Recovery. 39th, Annual Neurorehabilitation Conference, Boston, MA.
4. Kiran, S. (November, 2018). Intensive Comprehensive Cognitive Rehabilitation for Adults with TBI, 39th, Annual Neurorehabilitation Conference, Boston, MA.
5. Kiran, S. (June, 2018). Optimizing the Intensity of Aphasia Therapy. [NeuroRehabilitation 2019](#). Waltham, MA.
6. Kiran, S (May, 2018). Understanding neuroplasticity, Baycrest Speech Pathologist Conference, Toronto, CA.
7. Kiran, S (May, 2018). How Can Technology Enable Rehabilitation in Chronic Aphasia. Baycrest Speech Pathologist Conference, Toronto, CA.
8. Kiran, S. (May, 2018). Understanding how big data analyses can inform theories of rehabilitation. Baycrest Speech Pathologist Conference, Toronto, CA.
9. Kiran, S. (April, 2018). Understanding and predicting aphasia recovery and after rehabilitation. Center for the Study of Aphasia Recovery, Columbia, SC.
10. Kiran, S. (March, 2018). Organizer. Symposium on Language and the Brain. American Neuropsychiatric Association Annual Meeting. Boston, MA
11. Kiran, S. (March, 2018). Technological Applications for Language Rehabilitation. Symposium on Language and the Brain. American Neuropsychiatric Association Annual Meeting. Boston, MA
12. Kiran, S. (March, 2018). Understanding and predicting aphasia recovery and after rehabilitation. Haskins Lab, Yale University, New Haven, Connecticut.
13. Kiran, S., & Fridrikksson, J. (Nov, 2017). *Understanding Neuroplasticity & Language Recovery*. American Speech Language and Hearing Association Convention. Los Angeles, CA.
14. Kiran, S., & Haynes, L. (Oct, 2017). *How Can Technology Enable Rehabilitation in Chronic Aphasia?* New England Symposium for Speech-Language Professionals (NESSLP), Worcester, MA.
15. Kiran, S. (2017). *Language and Executive Functions in Aphasia. Language and Executive Functions*. MIT Symposium on Language and Executive Functions.
16. Centeno, J., Kiran, S., Munoz, M. (2016). *Contemporary Approaches to Assessment & Intervention with Bilingual Speakers with Aphasia*. American Speech language and Hearing Association Convention, Philadelphia, PA.
17. Kiran, S. (2016). *Understanding, facilitating and predicting language recovery in aphasia*. Boston Medical Center Neurovascular Stroke Conference. Boston, MA.
18. Kiran, S. (2016). *Understanding, facilitating and predicting language recovery in aphasia*. University of Massachusetts Amherst Communication Sciences and Disorders Leadership Conference. Amherst, MA.

19. Kiran, S. (2016). *Principles of Neuroplasticity in Aphasia. Advances in our current understanding.* Brain Injury Association of Massachusetts Annual Conference, Westborough, MA.
20. Kiran, S. (2016). *Understanding, facilitating and predicting language recovery in aphasia.* Distinguished Lecture. Roger. S. Williams Endowed Lecture Series. University of Missouri, Columbia, MO.
21. Kiran, S. (2016). *Principles of Neuroplasticity in Aphasia. Advances in our current understanding.* Illinois Speech and Hearing Association, Chicago, IL.
22. Kiran, S. (2016). *Using Big data to facilitate clinical decision making.* Illinois Speech and Hearing Association, Chicago, IL.
23. Kiran, S (2015). *Principles of Neuroplasticity in Aphasia. Advances in our current understanding.* Braintree Neurorehabilitation conference. Boston, MA.
24. Kiran, S (2015). *Using big data to understand and improve rehabilitation in aphasia.* Braintree Neurorehabilitation conference. Boston, MA
25. Kiran, S (2015). *Understanding, facilitating and predicting language recovery in aphasia.* Moss Rehabilitation Research Institute, Philadelphia, PA
26. Kiran, S. (2014). *Application of Current Theoretical Models to Bilingual Aphasia Rehabilitation.* American Speech Language and Hearing Association Convention, Orlando, FL (presented by Teresa Gray, M.A. ABD)
27. Kiran. S. (2014). *Effect of an ipad based individual therapy.* Visiting Scholar. Moss Rehabilitation Research Institute, Philadelphia, PA
28. Kiran. S. (2014). *Changes in task based connectivity following rehabilitation in aphasia.* Visiting Scholar. Moss Rehabilitation Research Institute, Philadelphia, PA
29. Kiran. S. (2014). Response to Bruce Tomblin. *Genetics and Aphasia Recovery.* NIDCD Sponsored Research Symposium. *Clinical Aphasiology Conference.* St Simons Island, Georgia.
30. Kiran S. (2014). *The nature of language recovery in monolingual and bilingual aphasia.* Language and Cognition Seminar Series, Harvard University, Boston, MA
31. Kiran S. (2014). *The nature of language recovery in monolingual and bilingual aphasia.* University of Illinois, Urbana Champaign, IL
32. Kiran S. (2014). *Changes in task based effective connectivity following rehabilitation in aphasia.* BrainMap Seminar Series, Martinos Center for Biomedical Imaging, Boston, MA.
33. Kiran, S. (2012). *Bilingual aphasia rehabilitation.* New Jersey State Speech and Hearing Association Convention. Ocean Township, NJ.
34. Kiran, S. (2010). *Language recovery in individuals with aphasia: Perspectives from neuroimaging and rehabilitation data.* University of Connecticut Cognitive Science Program. New Haven, CT
35. Kiran, S. (2010). *Language recovery in individuals with aphasia: Perspectives from neuroimaging and rehabilitation data.* Boston University Institute for Neuroscience, Boston, MA.
36. Kiran, S. (2009). *Language recovery in individuals with aphasia: Perspectives from neuroimaging and rehabilitation data.* Department of Anatomy and Neurobiology Seminar Series. Boston University School of Medicine, Boston, MA.
37. Kiran. S. (2009). *Bilingual Aphasia: Perspectives from fMRI, behavioral error analysis and rehabilitation.* NIDCD Research Symposium Presentation in Clinical Aphasiology. Clinical Aphasiology Conference, Denver, Colorado.

38. Kiran, S. (2009). *Rehabilitation of lexical retrieval in aphasia: Evidence from semantic complexity*. Spaulding Rehabilitation Hospital, Boston, MA.
39. Kiran, S. (2009). *Rehabilitation of lexical retrieval in aphasia: Evidence from semantic complexity*. Boston Aphasia Talks research colloquium series.
40. Kiran, S. (2009). *Bilingual Aphasia: Neural Substrates, cognitive control and rehabilitation*. Center for Language Science, Pennsylvania State University.
41. Kiran, S. (2008, September). *Bilingual Aphasia: Factors affecting recovery and rehabilitation*. 3<sup>rd</sup> Annual Eleanor M Saffran Cognitive Neuroscience Conference. Philadelphia, PA.
42. Kiran, S. (2008). The role of exemplar typicality in rehabilitation of naming deficits in aphasia. Boston University, Boston. MA.
43. Kiran, S. (2008, April). *Bench research in Stroke*. Current Concepts in Stroke, Austin, TX
44. Kiran, S. (2007, March), *The role of exemplar typicality within categories on recovery from brain damage*, Cognition and Perception Series, Department of Psychology, University of Texas at Austin.
45. Kiran, S. (2007, March) *Treatment Methods for Aphasia*, Research Imaging Center, University of Texas at San Antonio Health Center, San Antonio, TX.

***Selected Recent Peer Reviewed Conference Presentations (last 5 years) from over 200***

1. Braun, E. J., Billot, A., Kurani, A. S., Parrish, T. B., & Kiran, S. (2020, March). The relationship between white matter structural integrity and language performance in individuals with aphasia. Poster presented at Cognitive Neuroscience Society 2020 Annual Meeting, Virtual.
2. Li, R., Perrachione, T. K., Tourville, J. A., & Kiran, S. Predicting typicality effect from brain activation patterns in healthy adults and individuals with aphasia: a multi-voxel pattern analysis. Cognitive Neuroscience Society 2020 Annual Meeting, Virtual.
3. Dekhtyar, M., Braun, E. J., Foo, L., Billot, A., Kiran, S. (accepted oral presentation, 2019, November). Tele-assessment with the Western Aphasia Battery – Revised in adults with aphasia. Convention of the American Speech-Language-Hearing Association, Orlando, FL.
4. Butler, L. K., Kiran, S; Tager-Flusberg, H. (accepted poster presentation, 2019) A Systematic Review of fNIRS Studies With People With Communication Disorders. 2019 American Speech- Language Hearing Association (ASHA) Convention. Orlando, FL, USA
5. Li, R., Li, W., Kiran, S. (2019). Effect of Chinese Verb Network Strengthening Treatment in Mandarin-English Bilinguals with Aphasia. Paper accepted at the Academy of Aphasia, Macau, 2019.
6. Grasmann, U., Peñaloza, C., Dekhtyar, M., Kiran, S., & Miikkulainen, R. (August, 2019). *Bilex a neural-network model of the bilingual lexicon*. Poster symposium at the Flux Congress of the Society for Developmental Cognitive Neuroscience, New York, USA.
7. Peñaloza, C., Varkanitsa, M., Charidimou, A., Caplan, D., & Kiran, S. (August, 2019). *White matter hyperintensity predicts treatment outcomes in aphasia*. 11<sup>th</sup> annual meeting of the Society for the Neurobiology of Language, Helsinki, Finland.

8. Peñaloza, C., Grasemann, U., Dekhtyar, M., Miikkulainen, R., & Kiran, S. (August, 2019). *Translating computational modeling into clinical practice: Bilex as a tool to simulate treatment outcomes in bilingual aphasia*. 11<sup>th</sup> annual meeting of the Society for the Neurobiology of Language, Helsinki, Finland.
9. Peñaloza, C., Grasemann, U., Dekhtyar, M., Miikkulainen, R., & Kiran, S. (July, 2019). *A neural network model of naming impairment and treatment response in bilingual speakers with aphasia*. 28th annual computational neuroscience meeting. Barcelona, Spain.
10. Billot A., Thiebaut De Schotten M., Parrish T. , Thompson C.K., Rapp B., Caplan D.; Kiran S.( oral presentation, 2019) Structural disconnection maps associated with language impairment in chronic aphasia. Academy of Aphasia 57th annual meeting. Macau, China.
11. Billot A., Thiebaut De Schotten M., Parrish T. , Thompson C.K., Rapp B., Caplan D.; Kiran S.( poster presentation, 2019) Structural disconnection maps associated with language impairment in chronic aphasia. 14th Eleanor M. Saffran Conference. Philadelphia, PA, USA
12. Gilmore, N., Li, X., Yucel, M.; Kiran, S. (2019). Examining the neural substrates of language and cognitive processing in young adults with acquired brain injury using functional near-infrared spectroscopy. ABI2020 15th Annual Conference on Brain Injury. New Orleans, LA, USA.
13. Gilmore, N., Foo, L.; Kiran, S. (oral presentation – 2019). Reframing the Continuum of Care for Young Adults with Acquired Brain Injury. 2019 American Speech-Language Hearing Association Convention, USA.
14. Gilmore, N.; Kiran, S. (poster presentation – 2019). Novel, Academically-Focused Cognitive Rehabilitation Program Provides a Ramp to College Success for Young Adults with Acquired Brain Injury. 2019 American Society of Neurorehabilitation Annual Meeting. Chicago, IL, USA.
15. Dekhtyar, M., Braun, E. J., Foo, L. Kiran, S. (2019, May). Validating the Western Aphasia Battery – Revised through tele-assessment for individuals with aphasia. Poster presented at the 49<sup>th</sup>Annual Clinical Aphasiology Conference, Whitefish, Montana.
16. Gilmore, N., Foo, L., Kiran, S. (poster presentation – 2019). Academically-focused cognitive rehabilitation supports cognitive-linguistic recovery in college-bound adults with brain injury. The 2019 Clinical Aphasiology Conference. Whitefish, Montana, USA.
17. Dekhtyar, M., Braun, E. J., Foo, L., Kiran, S. (2019, May). Validating the Western Aphasia Battery –Revised through tele-assessment for individuals with aphasia. Talk presented at the 1 st International Conference on Teleneurorehabilitation, Crotone, Italy.
18. Li, R., Li, W., Kiran, S. (2019). Effect of Chinese Verb Network Strengthening Treatment in Mandarin-English Bilinguals with Aphasia. Paper presented at the Clinical Aphasiology Conference, Whitefish, Montana, 2019.
19. Gilmore, N., Foo, L; Kiran, S. (oral presentation – 2019). A Ramp to College: Intensive Cognitive-Communication Rehabilitation (ICCR) for Young Adults with Acquired Brain Injury. Brain Injury Association of New Hampshire. 36th Annual Brain Injury Stroke Conference. Concord, NH, USA.

20. Foo, L., Gilmore, N.; Kiran, S. (oral presentation – 2019). Reshaping Cognitive-Linguistic Rehab for Young Adults with Acquired Brain Injury (ABI). 2019 MIT BrainTrust Symposium. Cambridge, MA, USA.
21. Foo, L., Gilmore, N., & Kiran, S. (accepted oral presentation, 2018) Intensive-Cognitive Communication Rehabilitation (ICCR) for Young Adults with Acquired Brain Injury (ABI). 2018 American Speech-Language Hearing Association (ASHA) Convention. Boston, MA, USA.
22. Meier, E. L., Johnson, J. P., Pan, Y., & Kiran, S. (2018, October). *The utility of lesion classification models in predicting language abilities and treatment outcomes in persons with aphasia*. 56th Annual Meeting of the Academy of Aphasia. Montreal, Canada.
23. Kiran, S., Meier, E., Johnson, J., Pan, Y., El Guindy, S., & Bohland, J. (2018, October). *Functional networks, language impairment and recovery after treatment in aphasia*. 56th Annual Meeting of the Academy of Aphasia. Montreal, Canada
24. Angelopolou, G., Kiran, S., Kasselimis, D., Meier, E., Pan, Y., Varkanitsa M., Tsolakopoulos, D., Papageorgiou, G., Goutsis, D., Evdokimidis, I & Potagas, C. (2018, October). *Speech errors patterns in post-stroke aphasia: cross-linguistic evidence from two elicitation tasks*. 56th Annual Meeting of the Academy of Aphasia. Montreal, Canada.
25. Ryskin, R., Gibson, E., & Kiran, S. (2018, October). *Adaptation to the noise in aphasic sentence comprehension*. 56th Annual Meeting of the Academy of Aphasia. Montreal, Canada.
26. Campbell, R., Ryskin, R., & Kiran, S. (2018, October). *A novel eye tracking paradigm for assessing semantic and phonologic activation in aphasia*. 56th Annual Meeting of the Academy of Aphasia. Montreal, Canada.
27. Gilmore, N., Foo, L., & Kiran, S. (2018, October). *Filling the Gap: Cognitive Rehab for College-Bound Young Adults with Brain Injury*. Brain Injury Association of Vermont Annual Brain Injury Conference. Waterbury, VT.
28. Gilmore, N., Johnson, J.P., Meier, E.L., & Kiran, S. (2018, September) *Investigating the relationship between language and cognition in persons with aphasia as a function of semantic-based naming therapy*. The 2018 International Aphasia Rehabilitation Conference, Aveiro, Portugal.
29. Gilmore, N., Foo, L., & Kiran, S. (2018, September) *Intensive Cognitive-Communication Rehabilitation for College-bound Young Adults with Brain Injury*. The 2018 International Aphasia Rehabilitation Conference, Aveiro, Portugal.
30. Meier, E. L., Johnson, J. P., Pan, Y., & Kiran, S. (2018, August). Beyond left hemisphere versus right hemisphere in aphasic language recovery: Evidence from effective connectivity during lexical-semantic processing. Poster presentation at the 10<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Québec City, Canada.
31. Dekhtyar, M., Peñaloza, C., Kiran S., Gray. T. (2018, February). *Bilingualism may be a neuroprotective factor post brain injury in patients with aphasia*. Poster presented at the 46th Annual International Neuropsychology Conference, Washington DC.
32. Peñaloza, C., Grasemann, U., Dekhtyar, M., Miikkulainen, R., & Kiran, S. (2018, June). *A computational approach to healthy bilingual naming performance and*

- naming impairment in aphasia. Accepted for poster presentation at the International Max Planck Research School for the Language Sciences Conference, Nijmegen, The Netherlands.*
33. Peñaloza, C., Grasemann, U., Dekhtyar, M., Miikkulainen, R., & Kiran, S. (2018, August). *A computational approach to healthy bilingual naming and naming impairment in aphasia. Submitted for oral presentation at The Bilingual Brain: A long life perspective Satellite Symposium of the 10<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Quebec City, Canada.*
  34. Peñaloza, C., Grasemann, U., Dekhtyar, M., Miikkulainen, R., & Kiran, S. (2018, August). *Discern: A computational model of naming deficits in bilingual speakers with aphasia. Submitted for oral presentation at the 10<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Quebec City, Canada.*
  35. Johnson, J.P., Meier, E.L., Pan, Y., & Kiran, S. (2018). Task-based functional connectivity during picture naming in individuals with aphasia and healthy controls. Poster presented at the 2018 Clinical Aphasiology Conference, Austin, TX, USA.
  36. Meier, E. L., Pan, Y., Higgins, J., Kurani, A., Parrish, T., Thompson, C. K., & Kiran, S. (2018, May). Structural predictors of naming therapy outcomes in persons with aphasia. Oral presentation at the 48<sup>th</sup> Annual Clinical Aphasiology Conference, Austin, TX.
  37. Peñaloza, C., Grasemann, U., Dekhtyar, M., Miikkulainen, R., & Kiran, S. (2018, May). *A computational account of naming in healthy bilinguals and naming impairment in bilinguals with aphasia. Accepted for oral presentation at the Clinical Aphasiology Conference, Austin, TX.*
  38. Gilmore, N., Meier, E., Johnson, J., & Kiran, S. (2018, March). Baseline semantic processing skills are important for typicality-based naming therapy outcomes. 2018 CNS Annual Meeting. Boston, MA, USA.
  39. Meier, E. L., Johnson, J. P., Geng, Y., Kurani, A., Higgins, J., Parrish, T., Thompson, C. J., & Kiran, S. (2018, March). Multimodal structural predictors of naming therapy outcomes in persons with aphasia. 2018 CNS Annual Meeting. Boston, MA, USA.
  40. Peñaloza, C., Grasemann, U., Miikkulainen, R., Dekhtyar, M., & Kiran, S. (2017, November). *A computational account of word representation and processing in bilingual individuals.* Poster presented at the 9<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.
  41. Peñaloza, C., Rao, L., Barrett, K., & Kiran, S. (2017, November). *The association between language exposure and proficiency and L2 performance in bilingual adults with aphasia.* Poster presented at the 55<sup>th</sup> Annual Meeting of the Academy of Aphasia, Baltimore, MD.
  42. Quillen, I.A., & Kiran, S. (2017, November). Effects of Lexical Stress on Noun and Verb Production in Aphasia. Accepted for poster presentation at the 55<sup>th</sup> Annual Meeting of the Academy of Aphasia, Baltimore, MD
  43. Chaturvedi, S., Johnson, J. P., Meier, E. L., Geng, Y., & Kiran, S. (2017, November). *Changes in neural activity during a semantic verification task as a result of treatment in persons with aphasia.* Accepted for poster presentation at the 9<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.

44. Gilmore, N., Johnson, J. P., Meier, E. L., Des Roches, C. D., & Kiran, S. (2017, November). *The multidimensional nature of aphasia: Using factors beyond language to predict treatment outcomes*. Accepted for oral presentation at the 55th Annual Meeting of the Academy of Aphasia, Baltimore, MD.
45. Gilmore, N., Johnson, J., Meier, E., Cardullo, S., & Kiran, S. (poster presentation May 2017). Treatment and generalization effects of training atypical exemplars of semantic categories for patients with chronic aphasia. The 2017 Clinical Aphasiology Conference, Salt Lake City, Utah.
46. Gilmore, N., Johnson, J., Meier, E., Cardullo, S., & Kiran, S. (lightning talk April 2017). The Multidimensional Nature of Aphasia: Using Factors beyond Language to Predict Treatment Outcomes. Aphasia Research Laboratory Symposium, Boston, Massachusetts.
47. Johnson, J.P., Des Roches, C., Meier, E.L., Gilmore, N., & Kiran, S. (November, 2017). *The multidimensional nature of aphasia: Predicting and documenting treatment outcomes with linguistic and cognitive measures*. American Speech-Language-Hearing Association Convention; Los Angeles, CA.
48. Johnson, J.P., Meier, E.L., Gilmore, N., Des Roches, C., & Kiran, S. (October, 2017). *Predicting gains from aphasia rehabilitation using measures of language and cognition*. Oral presentation submitted to the 2017 American Congress of Rehabilitation Medicine conference; Atlanta, GA.
49. Meier, E. L. & Kiran, S. (2017, November). *Left hemisphere frontotemporal effective connectivity during semantic feature judgments: Differences between patients with aphasia and healthy controls*. Accepted for poster presentation at the 9<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.
50. Meier, E. L., Johnson, J. P., Geng, Y., & Kiran, S. (2017, November). *White matter matters in the recovery of language in post-stroke aphasia*. Accepted for poster presentation at the 9<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.
51. Meier, E.L., Johnson, J.P., & Kiran, S. *A clinician's guide to neuroimaging techniques for acquired brain injury*. American Speech-Language-Hearing Association Convention; Los Angeles, CA.
52. Peñalozza, C., Rao, L. and Kiran, S. (November, 2017). The association between language use/proficiency and L2 performance in bilingual adults with aphasia. Academy of Aphasia, Baltimore, MD.
53. Peñalozza, C., Grasemann, U., Miikkulainen, R., and Kiran, S. (November, 2017). A computational account of word representation and processing in bilingual individuals. Society for the Neurobiology of Language, Baltimore, MD.
54. Ross, K., Ross, N., Gilmore, N., Des Roches, C. & Kiran, S. (platform presentation – May 2017). The Intensive Cognitive-Communication Rehabilitation (ICCR) Program for Young Adults with Acquired Brain Injury. Clinical Aphasiology Conference (CAC) 47<sup>th</sup> Annual Conference. Salt Lake City, Utah.
55. Ross, N., Ross, K., Gilmore, N., Des Roches, C. & Kiran, S. (poster presentation – April 2017). A Novel Approach to Intensive Cognitive-Communication Rehabilitation for Young Adults with Acquired Brain Injury. 12<sup>th</sup> World Congress on Brain Injury. New Orleans, Louisiana.



56. Niziolek, C.A., Quillen, I.A., Lin, K.R., Beach, S.D., and Kiran, S. (March, 2017). *Cognitive interference modulates speech acoustics in a vowel-modified Stroop task*. 24th Annual Meeting of the Cognitive Neuroscience Society; San Francisco, CA.
57. Niziolek, C.A., Lin, K.R., Beach, S.D., Quillen, I.A., and Kiran, S. (June, 2017). *Speech acoustics are modulated by cognitive interference in a vowel-modified Stroop task*. 173rd Meeting of the Acoustical Society of America; Boston, MA.
58. Beach, S.D., Niziolek, C.A., and Kiran, S. (September, 2017). *Neural decoding of word identity and acoustic prototypicality during speech perception in listeners with and without aphasia*. Sixth International Conference on Auditory Cortex; Banff, Canada.
59. Niziolek, C.A. and Kiran, S. (November, 2017). *Cortical sensitivity to spoken acoustic variability in persons with aphasia: an MEG study*. Seminar at the Academy of Aphasia 55th Annual Meeting; Baltimore, MD.
60. Niziolek, C.A., Beach, S.D., and Kiran, S. (November, 2017). *Decoding the cortical sensitivity of spoken acoustic variability in persons with aphasia*. Society for the Neurobiology of Language; Baltimore, MD.
61. Kiran, S., & Godlove, J., (February, 2017). *Personalizing Rehabilitation for Stroke Survivors- A Big Data Approach*. International Stroke Conference, Houston, Texas.
62. Gilmore, N., Dwyer, M. and Kiran, S. (December, 2016). *A Systematic Review of Outcome Measures Utilized in Aphasia Treatment Research, including a Meta-analysis*. International Aphasia Rehabilitation Conference; London, England, UK.
63. Gilmore, N., Meier, E., Johnson, J., Cardullo, S. and Kiran, S. (December, 2016). *Treatment and Generalization Effects of Training Atypical Exemplars of Well-Defined Categories for Patients with Chronic Aphasia*. International Aphasia Rehabilitation Conference; London, England, UK.
64. Kiran, S. & Godlove, J., (2016, December). *Big-Data driven approaches to clinical decision making in aphasia rehabilitation*. International Aphasia Rehabilitation Conference, London, UK.
65. Kiran, S. Advani, M., Anantha, V. & Godlove, J., (November, 2016). *Reframing Clinical Neurorehabilitation in Individuals After Stroke Using a Big-Data Approach*. American Heart Association, Scientific Sessions. New Orleans, Louisiana.
66. Marotta, R.V., Des Roches, C.A., and Kiran, S. (2016, November). *Establishing profiles and predictors of language recovery in patients with post-stroke aphasia*. American Congress of Rehabilitation Medicine 93rd Annual Conference; Chicago, IL, USA.
67. Meier, E. L., & Kiran, S. (2016, October). *Frontotemporal effective connectivity during semantic feature judgments in patients with aphasia versus healthy controls*. Poster presentation at the Academy of Aphasia 54th Annual Meeting; Llandudno, Wales, UK.
68. Niziolek, C.A. and Kiran, S. (2016, October). *Behavioral and neural measures of error detection and correction in persons with aphasia*. Seminar at the Academy of Aphasia 54th Annual Meeting; Llandudno, Wales, UK.

69. Ross, K., Johnson, J.P., Ramesh, S., Zedan, M.A., and Kiran, S. (2016, October). Multi-Step Treatment for Acquired Alexia and Agraphia: Two-Dimensional Analysis of Reading and Writing Errors. Seminar at the Academy of Aphasia 54th Annual Meeting; Llandudno, Wales, UK.
70. Johnson, J.P., Ross, K., & Kiran, S. (2016, October). Multi-Step Treatment for Acquired Alexia and Agraphia: Treatment Effects, Generalization, and Response to Individual Therapy Tasks. Poster 54th Annual Academy of Aphasia Meeting, Llandudno, Wales.
71. Niziolek, C.A. and Kiran, S. (2016, September). Assessing speech error detection and correction abilities in patients with aphasia: MEG and behavioral evidence. Presentation at the 11th Annual Eleanor M. Saffran Cognitive Neuroscience Conference; Philadelphia, PA.
72. Niziolek, C.A. and Kiran, S. (2016, August). Assessing error detection and correction abilities in patients with aphasia: MEG and behavioral evidence. Presentation at the Society for the Neurobiology of Language; London, UK.
73. Kasdan, A., & Kiran, S. (2016, July). Please don't stop the music: Song completion in patients with aphasia. 14th International Conference for Music Perception and Cognition, San Francisco, CA.
74. Johnson, J. P., Meier, E. L., Caplan, D., & Kiran, S. (2016, June). Treatment-induced changes in anatomical and functional regions of interest in people with aphasia. Poster presentation at the 22nd Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland.
75. Meier, E. L., Johnson, J.P., Villard, S., & Kiran, S. (2016, May). Does naming therapy make ordering in a restaurant easier?: Dynamics of co-occurring change in cognitive-linguistic and functional communication skills in aphasia. Oral presentation at the 46th Annual Clinical Aphasiology Conference, Charlottesville, VA.
76. Johnson, J. P., Meier, E. L., Caplan, D., & Kiran, S. (2016, May). Effects of semantic feature-based naming therapy on anatomical and functional regions of interest in people with aphasia. Oral presentation at 46th Annual Clinical Aphasiology Conference, Charlottesville, VA.
77. Villard, S. & Kiran, S. (2016, February). Between-Session and Within-Session Intra-Individual Variability in Attention in Aphasia. Presentation at the International Neuropsychological Society; Boston, MA.
78. Kastenbaum, J., Kiran, S., Vallila-Rohter, S., Pena, E., Bedore, L., & Sheng, L. (2015, September). *The influence of language combination and proficiency on bilingual lexical access. Paper presentation at the American Speech-Language & Hearing Association; Denver, Colorado.*
79. Meier, E., Villard, S., Johnson, J., & Kiran, S. (2015, November). Does Naming Therapy Make Ordering in a Restaurant Easier? Impairment vs. Function in Aphasia. Seminar at the American Speech-Language & Hearing Association; Denver, Colorado.
80. Kasdan, A., & Kiran, S. (2015, October). Please don't stop the music: Song completion in patients with aphasia. 53rd Annual Meeting of the Academy of Aphasia, Tuscon, AZ.

81. Kiran, S. & Des Roches, C. (2015, October). Using big-data to validate theories of rehabilitation in aphasia. (Presented at the 53rd Annual Meeting of the Academy of Aphasia in Tucson, AZ).
82. Villard, S. & Kiran, S. (2015, October). Now you're with me, now you're not: Between-session and within-session intra-individual variability in attention in aphasia. Presentation at the Academy of Aphasia; Tucson, Arizona.
83. Blank, I., Fedorenko, E., Vallila-Rohter, S., Kiran, S. (2015). Large scale functional reorganization of language networks in aphasia. Presentation at the Academy of Aphasia; Tucson, Arizona.
84. Villard, S. & Kiran, S. (2015, October). Now you're with me, now you're not: Between-session and within-session intra-individual variability in attention in aphasia. Presentation at the Academy of Aphasia; Tucson, Arizona.
85. Meier, E., Kushal, K., & Kiran, S. (2015, October). Effective connectivity of the naming network in post-stroke chronic aphasia. The Society for the Neurobiology of Language, Chicago, IL.
86. Kastenbaum, J., Kiran, S., Vallila-Rohter, S., Pena, E., Bedore, L., & Sheng, L. (2015, September). The influence of language combination and proficiency on bilingual lexical access. Poster to be presented at the International Symposium of Monolingual and Bilingual Speech, Crete, Greece.
87. Gray, T. & Kiran, S. (2015, September). Mechanisms of language control and cognitive control in bilingual aphasia. International Symposium on Monolingual and Bilingual Speech, Crete, Greece.
88. Des Roches, C. Mitko, A., & Kiran, S. (2015). Relationship between levels of assistance and changes in treatment performance in individuals with aphasia. Clinical Aphasiology Conference. Monterrey Bay, CA.
89. Vallila-Rohter, S., Des Roches, Tripodis, Y., Caplan, D. & Kiran, S. (2015). Evaluating treatment and generalization patterns of two theoretically motivated sentence comprehension therapies. Clinical Aphasiology Conference. Monterrey Bay, CA.
90. Kiran, S., Kapse, K., & Meier, E. (2015). Effective connectivity analysis of language networks in healthy adults and in chronic aphasia. Human Brain Mapping, Honolulu, Hawaii.
91. Kiran, S., Kapse, K., Johnson, J., Martin, K., Meier, E, Caplan, D. (2015) Task based reorganization of function after rehabilitation. Human Brain Mapping, Honolulu, Hawaii.
92. Bohland, J., Kapse, K., & Kiran, S. (2014, October) Graph analytic characterization of resting state networks in post-stroke Aphasia. Academy of Aphasia, Miami, FL.
93. Sandberg, C., Bohland, J & Kiran, S. (2014, October). Changes in Functional Connectivity Associated with Direct Training and Generalization Effects of a Theory-Based Generative Naming Treatment. Academy of Aphasia, Miami, FL.
94. Kiran, S., Jorgensen, J., Raney, T., Kapse, K., Lo, M. (2014, June). Changes in task based effective connectivity following language rehabilitation in aphasia. Organization for Human Brain Mapping conference 2014, Hamburg, Germany.
95. Kiran, S., Gray, T., Kapse, K., & Salcedo, S (2014, June). Language Networks in English-Spanish bilinguals with and without aphasia. Organization for Human Brain Mapping conference 2014, Hamburg, Germany.

96. Sims, J., Kapse, K., & Kiran, S. (2014, April). The importance of the ipsi- and contralesional frontal and temporal regions in language recovery in aphasia. Cognitive Neuroscience Society, Boston, MA.
97. Villard, S. & Kiran, S. (2014, May). Inter- and intra-individual variability in non-linguistic attention in aphasia. Poster at the Clinical Aphasiology Conference, St. Simons Island, Georgia.
98. Krishan, G., Tiwari, S., Kiran, S., Chengappa, S., (2014, May). Cross-linguistic generalization of semantic treatment in aphasia: Evidence from the Indian context. Poster at the Clinical Aphasiology Conference, St. Simons Island, Georgia.
99. Sims, J., Kapse, K., & Kiran, S. (2013, November). The importance of the ipsi- and contralesional frontal and temporal regions in language recovery in aphasia. 2013 Society for Neurobiology of Language Annual Meeting. San Diego, CA.
100. Kiran, S. et al., (2013, November). The nature of across-task and across-structure generalization following a sentence comprehension treatment for aphasia. 2013 Society for Neurobiology of Language Annual Meeting. San Diego, CA.
101. Vallila-Rohter, S., & Kiran, S. (2013, November). Neural activations during nonlinguistic category learning in individuals with aphasia. 2013 Society for Neurobiology of Language Annual Meeting. San Diego, CA.
102. Kiran, S., Stepp, C, Vega-Brachowitz, C., Ambrosi, D., & Perry, P., (2013, November). The Next Frontier in Rehabilitation: Connected Care Using Tablets, Cloud-Computing, & Other Technologies. American Speech Language and Hearing Convention. Chicago, IL.
103. Kiran, S., Des Roches, C., Balachandran, I., & Ascenso, E. (2013, November). Validating Patient Outcomes Using an iPad-Based Software Platform for Language & Cognitive Rehabilitation. American Speech Language and Hearing Convention. Chicago, IL.
104. Gray, T., & Kiran, S. (2013, November). Cognitive Control in Bilingual Aphasia. American Speech Language and Hearing Convention. Chicago, IL.
105. Kiran, S., Gray, T., Kapse, K., & Salcedo, S. (2013, October). Language Networks in English-Spanish bilinguals with and without aphasia. 51<sup>st</sup> Academy of Aphasia, Lucerne, Switzerland.
106. Villard, S., & Kiran, S. (2013, October). Consistency of Sustained and Focused Non-Linguistic Attention in Aphasia. 51<sup>st</sup> Academy of Aphasia, Lucerne, Switzerland.
107. Sandberg, C. & Kiran, S. (2013, June). Changes in functional connectivity associated with treatment gains in aphasia. Organization for Human Brain Mapping 2013 conference.
108. Sandberg, C. & Kiran, S. (2013, May). Changes in Functional Connectivity Associated with Direct Training and Generalization Effects of a Theory-Based Generative Naming Treatment. Platform presented at the 43<sup>rd</sup> Annual Clinical Aphasiology Conference, Tuscon, AZ.
109. Gray, T. & Kiran, S. (2013, May). Cognitive control in bilingual aphasia. 43<sup>rd</sup> Annual Clinical Aphasiology Conference, Tuscon, AZ.
110. Kiran, S., Des Roches, C., Balachandran, I., & Ascenso, E (2013, May). Validation of an ipad based therapy for individuals with brain damage. 43<sup>rd</sup> Annual Clinical Aphasiology Conference, Tuscon, AZ.

111. Vallila-Rohter, S., & Kiran, S. (2013, May). Learning ability as a predictor of success with therapy. 43<sup>rd</sup> Clinical Aphasiology Conference, Tucson, AZ.
112. Gray, T. & Kiran, S. (2013, March). Cognitive control in bilingual aphasia. Poster presented at the annual Boston University Scholar's Day, Boston, MA.
113. Gray, T., Glynn, P., Luk, G., & Kiran, S. (2013, April). Gray matter volume differences between Spanish-English and Hindi-English bilinguals. 20<sup>th</sup> Annual Cognitive Neuroscience Society Meeting, San Francisco, CA.

114. TEACHING EXPERIENCE

***Doctoral Seminars***

- 2010, 2013, 2016 SAR SH 810 A1, PhD-level scholarly career development seminar (Boston University)
- 2008 Seminar on grant writing (CSD 383N) (UT-Austin)
- 2005 Cognition & Communication: Neuroimaging Methods (CSD 383) (UT-Austin)

***Graduate***

- 2009- 2011, 2014 Aphasia (SAR 736) (Boston University)
- 2009 – present Cognitive and Neural Basis (SAR 756) (Boston University)
- 2002-2008 Aphasia (CSD 393F) (UT-Austin)
- 2003-2008 Anatomy and Physiology of the Speech and Hearing Mechanism (CSD393 E) (UT-Austin)
- 2003 Research Methods (393D) (UT-Austin)

***Undergraduate***

- 2003-2008 Language and the Brain (CSD 350). (UT-Austin)

***Guest Lectures***

- 2015, 2017, 2019 Single Subject Design, Research Design, Doctoral Program in Occupational Therapy, Boston University
- 2011-2015 Language processing, Clinical Aspects of Speech and Hearing, HST-SHBT Graduate Program
- 2011 Neuroscience 101, Boston University Neuroscience Program
- 2008 Principles of Neuroscience; BUR 116, 9:30-11 #67695.  
Course Instructor: Max Snodderly (UT-Austin)
- 2007 Introduction to communication disorders. Course Instructor: Dena Granof (CSD 306K) (UT-Austin)
- 2005-2008 Cognitive Science, Course Instructor: Mary Hayhoe & Dana Ballard, (cs395t/ Psy 394U/ CGS 380/ Phl 383/Lin 392) (UT-Austin)
- 2005 Foundations of Magnetic Resonance Imaging (MRI) Research, Course Instructor: Mike Domjan, (NEU 394P/PSY 394P) (UT-Austin)

**RESEARCH DIRECTION AND STUDENT ADVISING**

<b><i>Post-Doctoral Mentees</i></b>
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Lindsay Butler Trump	Ph.D 2016	Current Post Doc
Claudia Penaloza	Ph.D. 2016	Current Post Doc
Rachel Ryskin	PhD 2016	Current Post Doc
Carrie Niziolek	Ph.D. 2010	Currently, Assistant Professor, University of Wisconsin, Madison
Sofia Vallila Rohter	Ph.D., 2014	Currently Assistant Professor, MGH-IHP
<b><i>Ph.D Dissertation Committee Chair</i></b>		
Lisa Edmonds (UT –Austin)	August, 2005	Currently Associate Professor, Teachers College, Columbia University
Rajani Sebastian (UT –Austin)	August, 2010	Currently Assistant Professor at Johns Hopkins Medical School.
Sofia Vallila (Boston University/Harvard-MIT HST program)	October, 2013	Currently Assistant Professor, MGH-IHP *Winner of 2012 ASHF New Century Scholar Doctoral Award.
Chaleece Sandberg	Feb 2014	Currently Assistant Professor at Pennsylvania State University *Winner of 2014 ASHF New Century Scholar Research Award. *Winner of BU Graduate Student Poster Award
Teresa Gray	June, 2015	Currently Assistant Professor at San Francisco State University *Winner of 2013 ASHF New Century Scholar Doctoral Award.
Sarah Villard	Dec, 2015	Currently Post-doctoral Fellow, Boston University *Winner of 2014 ASHF New Century Scholar Doctoral Award. *Winner of BU Graduate Student Poster Award
Jeffery Johnson	Sep, 2018	Currently Post-doctoral Fellow, VA Pittsburgh *Winner of the Dudley Allen Sargent Student Grant.
Erin Meier	Aug, 2018	Currently Post-doctoral Fellow, Johns Hopkins Medical Institution. *Winner of 2016 ASHF New Century Scholar Doctoral Award. *Recipient of NIH F31 fellowship
Natalie Gilmore	In progress	5 <sup>th</sup> year PhD student **Recipient of NIH F31 and T32 fellowship
Ran Li	In progress	3rd year PhD student
Emily Braun	In progress	2 <sup>nd</sup> year PhD student *Recipient of NIH T32 fellowship
Anne Billot	In progress	2 <sup>nd</sup> year PhD student

Michael Scimeca	In progress	1 <sup>st</sup> year PhD student
Erin Carpenter	In progress	1 <sup>st</sup> year PhD student
<b><i>M.A. thesis Committee Chair at Boston University</i></b>		
Regina Iakupova	2011	“Semantic feature analysis treatment in Russian-English bilingual aphasia”
Sarah Villard	2012	“ A comparison of two treatments for sentence comprehension deficits in aphasia”
Brooke Widman	2012	“Comparison of coordinate and semantic feature analysis treatment in aphasia”
Caitlin Kean	2013	“Examining facilitation and interference in a trilingual patient with aphasia”
Megan Quimby	2013	“Lexical access in Hebrew-English bilinguals”
Melody Lo	2013	“Semantic and phonological impairment in individuals with aphasia”
Jordyn Sims	2014	“The importance of ipsilesional IFG and contralesional temporal lobe in language recovery in aphasia”
Jessie Kastenbaum	2015	“The nature of lexical retrieval in bilingual individuals”
Katrina Ross	2016	“Lexical and Sublexical Analysis of Single-Word Reading and Writing Errors”
Rachael Campbell	2018	“A novel eye tracking paradigm for assessing semantic and phonological activation in aphasia”
Leela Rao	2018	“Verbal fluency as a measure of lexico-semantic access and cognitive control in bilingual aphasia”
Kate Barrett	2018	“The influence of pre-stroke proficiency on post-stroke impairment in bilingual aphasia”
Michael Scimeca	2020	
Erin Carpenter	2020	

### **CERTIFICATIONS**

2009-present Licensed Speech Language pathologist, State of Massachusetts  
2002-2009 Licensed Speech Language Pathologist, State of Texas  
2002-present Certificate of Clinical Competence in Speech-Language Pathology, ASHA

### **PROFESSIONAL AFFILIATIONS**

2004-present Member, Academy of Aphasia  
2003-2008 Member, ANCDS  
2001-present Member, American Speech-Language and Hearing Association  
2000-present Member, ASHA SID 2 Neurophysiology and Neurogenic Speech and Language Disorders

1999-2009 Member, Cognitive Neuroscience Society  
2007-2009 Member, Cognitive Science Society  
2002-2008 Member, American Heart Association, Austin Chapter