SWATHI KIRAN
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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

2021- present	Director, Strategic Planning Implementation, Office of the Provost
2020- present	Scientific Advisor, Co-Founder, Constant Therapy Health
2018- present	Associate Dean for Research, Sargent College of Health and Rehabilitation Sciences, Boston University
2020- present	Steering Committee, Hariri Institute of Computing and Computational Sciences, Boston University
2020- present	Member, Faculty for Computing and Data Sciences, Boston University
2018- present	Faculty, Boston University Neurophotonics Center (NPC)
2017- 2020	Consultant, The Learning Corporation (FKA Constant Therapy)
2016- 2020	Faculty, Hariri Institute of Computing and Computational Sciences, Boston University
2016-2018	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

2019- present	James and Cecilia Tse Ying Professor of Neurorehabilitation
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.
2003	Dean's Fellowship, University of Texas at Austin

PROFESSIONAL ACTIVITIES

International:

2021	Section Editor, *Cortex*
2020	Chair, Board of Governors, Academy of Aphasia
2020	Section Editor, *Neuropsychologia*
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*

National:
2020 Board Member, National Aphasia Association
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- 2019 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:

2020	SIG Lead, Boston University Strategic Planning Implementation Group
2020	Chair, University Tenure and Promotion Committee
2020	Associate Chair, Conflicts of Interest Committee, Boston University
2020	Steering Committee Member, Hariri Institute for Computing
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

2020- 2025	NIH/NIBIB 1U01EB029856-01. The Neuroscience of Everyday World- A novel wearable system for continuous measurement of brain function (MPI: Swathi Kiran)

2019-2024	NIH/NIDCD 1R01DC015961-01A1 *Functional reorganization of the language and domain-general multiple demand systems in aphasia*. MPI: Swathi Kiran ($3,594,247).
2018-2022	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)
2020 –2022	NIDCD/NIH 1U01DC014922 05S1 *Computational Modeling of Semantic Decline in Bilingual Individuals with Mild Cognitive Impairment and Primary Progressive Aphasia,* MPI: Swathi Kiran ($360,724)
2016-2022	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 Miikkulainen
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)

PUBLICATIONS
Journal Articles

1. Varkanitsa, M., Penaloza, C., Charidimou, A., & Kiran, S. (under revision). Cerebral Small Vessel Disease burden: A biomarker for language treatment response in stroke patients with chronic aphasia

2. Braun, E.J., **Kiran, S.** (under revision). Stimulus- and person-level variables influence word production and response to anomia treatment for individuals with chronic post-stroke aphasia. *Journal of Speech Language and Hearing Research.*

3. Marte, M., Penaloza, C., Meier, E., Buckshaw, R., & **Kiran, S.** (under review). Reorganization of semantic connectivity in bilingual aphasia: A case series.

4. Scimeca, M., Abdollahi, F., Penaloza, C., & **Kiran, S.** (under revision). Clinical perspectives and strategies for confronting disparities in social determinants of health for Hispanic bilinguals with aphasia. *Journal of Communication Disorders.*

5. Braun, E. J., Billot, A., Meier, E. L., Pan, Y., Parrish, T. B., Kurani, A. S., **Kiran, S.** (under revision). White matter microstructural integrity pre- and post-treatment in individuals with chronic post-stroke aphasia. *Brain and Language*

6. Billot A., Thiebaut de Schotten M., Parrish T.B., Thompson C.K., Rapp B., Caplan D. & **Kiran S.** (under revision). Structural disconnections associated with language impairments in chronic post-stroke aphasia using disconnectome maps. *Cortex.*

7. Gilmore, N., Mirman, D., & **Kiran, S.** (in press). Young Adults with Acquired Brain Injury Show Longitudinal Improvements in Cognition After Intensive Cognitive Rehabilitation, *Journal of Speech Language and Hearing Research.*

8. Billot, A., Lai, S., Varkanitsa, M., Braun, E. J., Rapp, B., Parrish, T. B., Higgins, J., Kurani, A. S., Caplan, D., Thompson, C. K., Ishwar, P., Betke, M., & **Kiran, S.** (2022, Jan 26). Multimodal Neural and Behavioral Data Predict Response to Rehabilitation in Chronic Poststroke Aphasia. *Stroke*, STROKEAHA121036749. https://doi.org/10.1161/STROKEAHA.121.036749

9. Gilbert, C., Gilmore, N. Mooradian, G., Citorik, A. & **Kiran, S.** (in press). Multi-level treatment outcomes for young adults with acquired brain injury following intensive, integrated cognitive rehabilitation situated within a college semester context. *Brain Injury*

10. Hill, A.J., Paik, N.J., **Kiran, S.,** Tonin, P. (2021) Editorial: Tele-NeuroRehabilitation. Frontier In Neurology 12:761690. doi: 10.3389/fneur.2021.761690. eCollection 2021. PubMed PMID: 34867746; PubMed Central PMCID: PMC8638739.

11. Johnson, J.P., Meier, E.L., Pan, Y., **Kiran, S.** (2021) Abnormally weak functional connections get stronger in chronic stroke patients who benefit from naming therapy. Brain and Language Dec;223:105042. doi: 10.1016/j.bandl.2021.105042. Epub 2021 Oct 22. PubMed PMID: 34695614

12. Carpenter, E., Penaloza, C., Rao, L., & Kiran, S. (2021). Clustering and switching in verbal fluency across varying degrees of cognitive control demands: Evidence from healthy bilinguals and bilinguals with aphasia. *Neurobiology of Language.* doi:10.1162/nol_a_00053, NIMSID1768337

13. Boyle, M., Gordon, J., Harnish. S., **Kiran, S.,** Martin, N., Rose, M., Salis, C. (2021). Evaluating Cognitive-Linguistic Approaches to Interventions for Aphasia within the Rehabilitation Treatment Specification System (RTSS). *Archives of Physical Medicine and Rehabilitation,* Nov 23;. doi: 10.1016/j.apmr.2021.07.816. [Epub ahead of print] PubMed PMID: 34822844.

14. Fridriksson, J., Basilakos, A.,…**Kiran, S**., Martin, N. (in press) Demystifying the complexity of aphasia treatment: Application of the Rehabilitation Treatment Specification System (RTSS). *Archives of Physical Medicine and Rehabilitation.*

doi: 10.1016/j.apmr.2021.08.025. [Epub ahead of print] PubMed PMID: 34748758.

15. Basilakos, A., Hula, W.D., Johnson, L.P., **Kiran, S.**, Walker, G.M., Fridriksson, J.(2021). Defining the Neurobiological Mechanisms of Action in Aphasia Therapies: Applying the Rehabilitation Treatment Specification System Framework to Research and Practice in Aphasia. *Archives of Physical Medicine and Rehabilitation*. 2021 Nov 5;. doi: 10.1016/j.apmr.2021.10.017. [Epub ahead of print] PubMed PMID: 34748759.

16. Gilmore, N., Yucel, M. A., Li, X., Boas, D. A., & **Kiran, S.** (2021). Investigating language and domain-general processing in neurotypicals and individuals with aphasia — a functional near-infrared spectroscopy feasibility study, *Frontiers in Human Neuroscience, section Brain Imaging and Stimulation,* 15:728151. doi: 10.3389/fnhum.2021.728151, PubMed PMID: 34602997

17. Gilmore, N., Katz, D. I., & **Kiran, S.** (2021). Acquired Brain Injury in Adults: A Review of Pathophysiology, Recovery, and Rehabilitation. Perspectives of the ASHA Special Interest Groups. doi:doi:10.1044/2021_PERSP-21-00013

18. Peñaloza, C, Scimeca, M, Gaona, A, Carpenter, E, Mukadam N, Gray, T, Shamapant S and **Kiran, S** (2021) Telerehabilitation for Word Retrieval Deficits in Bilinguals With Aphasia: Effectiveness and Reliability as Compared to In-person Language Therapy. *Frontiers In Neurology*. 12:589330. doi: 10.3389/fneur.2021.589330

19. Li, R., Perrachione, T., Tourville, J., & **Kiran, S.** (2021). Representation of Semantic Typicality in Brain Activation in Healthy Adults and Individuals with Aphasia: a Multi-Voxel Pattern Analysis. *Neuropsychologia*, 107893. doi:10.1016/j.neuropsychologia.2021.107893

20. Grasemann, U., Penaloza, C., Dekhtyar, M., Miikkulainen, R., & **Kiran, S.** (2021). Predicting language treatment response in bilingual aphasia using neural network-based patient models. *Nature Scientific Reports*, 11(1), 10497. doi:10.1038/s41598-021-89443-6 PMID: 34006902

21. Braley, M., Pierce, J. S., Saxena, S., De Oliveira, E., Taraboanta, L., Anantha, V., . . . **Kiran, S.** (2021). A Virtual, Randomized, Control Trial of a Digital Therapeutic for Speech, Language, and Cognitive Intervention in Post-stroke Persons With Aphasia. *Frontiers in Neurology, Neurorehabilitation 12*(34). doi:10.3389/fneur.2021.62678, PubMed PMID: 33643204; PubMed Central PMCID: PMC7907641.

22. Iorga M, Higgins J, Caplan D, Zinbarg R, **Kiran S,** Thompson CK, Rapp B, Parrish TB. (2021) Predicting language recovery in post-stroke aphasia using behavior and functional MRI. *Nature Scientific Reports*. Apr 19;11(1):8419. doi: 10.1038/s41598-021-88022-z. PubMed PMID: 33875733; PubMed Central PMCID: PMC8055660.

23. von Lühmann A, Zheng Y, Ortega-Martinez A, **Kiran S,** Somers DC, Cronin-Golomb A, Awad LN, Ellis TD, Boas DA, Yücel MA. Towards Neuroscience of the Everyday World (NEW) using functional Near-Infrared Spectroscopy. (2021). *Curr Opin Biomed Eng.* Jun;18. doi: 10.1016/j.cobme.2021.100272. Epub 2021 Feb 3. PubMed PMID: 33709044; PubMed Central PMCID: PMC7943029.

24. Carpenter, E., Rao, L., Peñaloza, C., & **Kiran, S.** (2020). Verbal fluency as a measure of lexical access and cognitive control in bilingual persons with aphasia. *Aphasiology, 34*(11), 1341-1362. doi:10.1080/02687038.2020.1759774, NIHMS1588196

25. Centeno, J. G., **Kiran, S.,** & Armstrong, E. (2020). Epilogue: Harnessing the experimental and clinical resources to address service imperatives in multiethnic aphasia caseloads. *Aphasiology, 34*(11), 1451-1455. doi:10.1080/02687038.2020.1781421

26. Centeno, J. G., **Kiran, S.,** & Armstrong, E. (2020). Aphasia management in growing multiethnic populations. *Aphasiology, 34*(11), 1314-1318. doi:10.1080/02687038.2020.1781420

27. Peñaloza, C., Dekhtyar, M., Scimeca, M., Carpenter, E., Mukadam, N., & **Kiran, S.** (2020). Predicting treatment outcomes for bilinguals with aphasia using computational modeling: Study protocol for the PROCoM randomised controlled trial. BMJ Open. 2020 Nov 18;10(11):e040495. doi: 10.1136/bmjopen-2020-040495. PubMed PMID: 33208330; PubMed Central PMCID: PMC7677370.

28. Butler, L. K., **Kiran, S.,** & Tager-Flusberg, H. (2020). Functional Near-Infrared Spectroscopy in the Study of Speech and Language Impairment Across the Life Span: A Systematic Review. *Am J Speech Lang Pathol, 29*(3), 1674-1701. doi:10.1044/2020_AJSLP-19-00050, PubMed PMID: 32640168; PubMed Central PMCID: PMC7893520.

29. Lukic, S., Thompson, C. K., Barbieri, E., Chiappetta, B., Bonakdarpour, B., **Kiran, S.,** . . . Caplan, D. (2020). Common and distinct neural substrates of sentence production and comprehension. *Neuroimage, 224*, 117374. doi:10.1016/j.neuroimage.2020.117374, Epub 2020 Sep 17. PubMed PMID: 32949711.

30. Varkanitsa, M., Peñaloza, C., Charidimou, A., Caplan, D., & **Kiran, S.** (2020). White Matter Hyperintensities Predict Response to Language Treatment in Poststroke Aphasia. *Neurorehabilitation and Neural Repair*, *34*(10), 945–953. https://doi.org/10.1177/1545968320952809, PubMed PMID: 32924765; PubMed Central PMCID: PMC7572835.

31. 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, PubMed PMID: 32505940; PubMed Central PMCID: PMC7338231.

32. Li, R., Li, W., & **Kiran, S.** (2020). Effect of Mandarin Verb Network Strengthening Treatment (VNeST) in Mandarin-English bilinguals with aphasia: A single-case experimental design. *Neuropsychol Rehabil*, 1-30. doi:10.1080/09602011.2020.1773278, NIHMS 1599767

33. 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, PubMed PMID: 32063823; PubMed Central PMCID: PMC7000661.

34. 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, PubMed PMID: 32191122; PubMed Central PMCID: PMC7842871.

35. Dekhtyar, M., **Kiran, S.,** & Gray, T. (2020). Is bilingualism protective for adults with aphasia? *Neuropsychologia, 139*, 107355. doi:10.1016/j.neuropsychologia.2020.107355

36. 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.

37. 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, PubMed PMID: 32282965.

38. 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, PubMed PMID: 32044752; PubMed Central PMCID: PMC7055773.

39. 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, PubMed PMID: 30027828; PubMed Central PMCID: PMC6339853.

40. Penaloza, 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 PubMed PMID: 33281268; PubMed Central PMCID: PMC7716615.

41. 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. PubMed PMID: 31627014; PubMed Central PMCID: PMC6980719.

42. 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

43. **Kiran, S.,** Meier, E. L., & Johnson, J. P. (2019). Neuroplasticity in Aphasia: A Proposed Framework of Language Recovery. *J Speech Lang Hear Res, 62*(11), 3973-3985. doi:10.1044/2019_JSLHR-L-RSNP-19-0054, PubMed PMID: 31756154; PubMed Central PMCID: PMC7203519.

44. Meier, E. L., Johnson, J. P., Pan, Y., & **Kiran, S.** (2019). A lesion and 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. PubMed PMID: 31491828; PubMed Central PMCID: PMC6702239

45. **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

46. 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

47. Peñaloza, 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

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Book Chapters.

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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.*

PRESENTATIONS
Invited Presentations
International:

1. Kiran, S. (November, 2021). *The many facets of language production in bilingual aphasia.* The International Workshop on Language Production. Online/Virtual

2. Kiran, S (May, 2021). U*nderstanding, facilitating and predicting recovery in aphasia.* Keynote. Speech Pathology Australia annual convention. Online/Virtual

3. Kiran, S., (May, 2020). *Predicting language recovery in aphasia.* Aphasia Center for Research Excellence, Australia. Online/Virtual

4. Kiran, S., (April, 2019). *Understanding, facilitating and predicting language recovery in aphasia.* Brazilian Academy of Audiology Congress, Iguassu Falls, Brazil.

5. Kiran, S., (November, 2018). *Understanding, facilitating and predicting language recovery in aphasia.* British Aphasiology Society, Sheffield, U.K.

6. Kiran, S., (August, 2018). *Treatment approaches for aphasia.* Workshop at QiQihar Medical University. Qiqihar, China.

7. Kiran, S. (February, 2018). *Technological applications for aphasia.* World Federation of Neurorehabilitation, Mumbai, India

8. Kiran, S., (2018). *Understanding aphasia.* Plenary Speaker, 50th ISHACON meeting, Mysore, India.

9. Kiran, S., (2015). *Keynote address on perennial issues in aphasia.* National Conference on Clinical Aphasiology. All India Institute of Speech and Hearing, Mysore, India.

10. Kiran, S., (2015). *Principles of Neuroplasticity.* Samvaad Institute of Speech and Hearing, 10th Anniversary Celebrations. Bangalore, India.
11. 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.
12. Kiran. S (2014). *Bilingual Aphasia: Current Concepts.* Indo US Workshop on Cognitive Reserve in Dementia and Aphasia. An IUSSTF and DST Program. Hyderabad, India.
13. 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.
14. Kiran, S (2013). *The nature of facilitation and inhibition in bilingual aphasia rehabilitation. Symposium on Bilingual Aphasia.* European Federation of Neuropsychology, Berlin Germany.
15. 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.
16. Kiran, S. (2012). *New approaches to aphasia rehabilitation.* CME workshop on aphasia. Indore, India
17. Kiran, S (2012). *Aphasia therapy with computers, technology and other self-help methods.* CME workshop on aphasia. Indore, India
18. Kiran, S. (2011). *Bilingual Aphasia Rehabilitation.* Symposium speaker. Science of Aphasia, IX. Barcelona, Spain.
19. Kiran, S. (2009). *Application of Neuroimaging in stroke recovery.* Continuing Medical Education Workshop. MNR Medical Institute, Andhra Pradesh, India.
20. Roberts, P., & Kiran, S. (2009). *PC1 - Bilingual Aphasia: Evidence and Clinical Issues.* Day long workshop at Canadian Association of Speech Language Pathologists, London, Ontario.
21. Kiran, S. (2008, September). *Bilingual Aphasia: Factors affecting recovery and rehabilitation.* Science of Aphasia IX (SOA). Chalkidiki, Greece.
22. Kiran, S. (2007, June). *Rehabilitation of aphasia: Behavioral and Neuroimaging evidence.* MNR Medical College. Hyderabad, India

National
1. Kiran. S. (November, 2021). *Advances and challenges in predicting recovery of language after stroke: The pursuit of precision rehabilitation.* Brain Imaging Research Center, The University Of Connecticut. Online/Virtual
2. Kiran. S. (September, 2021). *Understanding, facilitating and predicting recovery of language after acquired brain injury.* University of Wisconsin Colloquium Series. Online/Virtual
3. Kiran. S. (June, 2021). *Understanding, facilitating and predicting recovery of language after acquired brain injury.* BrainMap. Organized by A. A. Martinos Center. Online/Virtual
4. Kiran, S. (June, 2021). *Optimizing the Intensity of Aphasia Therapy.* Neurorehabilitation 2021. Online/Virtual

5.   Kiran, S (April, 2021). *Understanding, facilitating and predicting recovery in aphasia.* Center for Brain Recovery and Repair, University of New Mexico. Online/Virtual

6.   Kiran, S. (November, 2020), *Neuroplasticity Effects after Post-Stroke Aphasia* 41st, Annual Neurorehabilitation Conference, Boston, MA. Online/Virtual

7.   Kiran, S. (November, 2018). *Neuroplasticity and language recovery in aphasia.* 2018 Annual Research Symposium, American Speech Language and Hearing Association, Boston, MA.

8.   Kiran, S. (November, 2018). *Functional reorganization of the language system in aphasia.* Annual Academy of Neurological Communication Disorders and Sciences. Boston, MA.

9.   Kiran, S. (November, 2018), *Understanding Aphasia Recovery.* 39th Annual Neurorehabilitation Conference, Boston, MA.

10. Kiran, S. (November, 2018). *Intensive Comprehensive Cognitive Rehabilitation for Adults with TBI*, 39th, Annual Neurorehabilitation Conference, Boston, MA.

11. Kiran, S. (June, 2018). *Optimizing the Intensity of Aphasia Therapy.* **NeuroRehabilitation 2019**. Waltham, MA.

12. Kiran. S (May, 2018). *Understanding neuroplasticity*, Baycrest Speech Pathologist Conference, Toronto, CA.

13. Kiran. S (May, 2018). *How Can Technology Enable Rehabilitation in Chronic Aphasia.* Baycrest Speech Pathologist Conference, Toronto, CA.

14. Kiran, S. (May, 2018). *Understanding how big data analyses can inform theories of rehabilitation.* Baycrest Speech Pathologist Conference, Toronto, CA.

15. Kiran, S. (April, 2018). *Understanding and predicting aphasia recovery and after rehabilitation.* Center for the Study of Aphasia Recovery, Columbia, SC.

16. Kiran, S. (March, 2018). Organizer. *Symposium on Language and the Brain.* American Neuropsychiatric Association Annual Meeting. Boston, MA

17. Kiran, S. (March, 2018). *Technological Applications for Language Rehabilitation. Symposium on Language and the Brain.* American Neuropsychiatric Association Annual Meeting. Boston, MA

18. Kiran, S. (March, 2018). *Understanding and predicting aphasia recovery and after rehabilitation.* Haskins Lab, Yale University, New Haven, Connecticut.

19. Kiran, S., & Fridrikksson, J. (Nov, 2017). *Understanding Neuroplasticity & Language Recovery.* American Speech Language and Hearing Association Convention. Los Angeles, CA.

20. Kiran, S., & Haynes, L. (Oct, 2017). *How Can Technology Enable Rehabilitation in Chronic Aphasia?* New England Symposium for Speech-Language Professionals (NESSLP), Worcester, MA.

21. Kiran, S. (2017). *Language and Executive Functions in Aphasia. Language and Executive Functions.* MIT Symposium on Language and Executive Functions.

22. 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.

23. Kiran, S. (2016). *Understanding, facilitating and predicting language recovery in aphasia.* Boston Medical Center Neurovascular Stroke Conference. Boston, MA.

24. Kiran, S. (2016). *Understanding, facilitating and predicting language recovery in aphasia.* University of Massachusetts Amherst Communication Sciences and Disorders Leadership Conference. Amherst, MA.
25. Kiran, S. (2016). *Principles of Neuroplasticity in Aphasia. Advances in our current understanding.* Brain Injury Association of Massachusetts Annual Conference, Westborough, MA.
26. Kiran, S. (2016). *Understanding, facilitating and predicting language recovery in aphasia.* Distinguished Lecture. Roger. S. Williams Endowed Lecture Series. University of Missouri, Columbia, MO.
27. Kiran, S. (2016). *Principles of Neuroplasticity in Aphasia. Advances in our current understanding.* Illinois Speech and Hearing Association, Chicago, IL.
28. Kiran, S. (2016). *Using Big data to facilitate clinical decision making.* Illinois Speech and Hearing Association, Chicago, IL.
29. Kiran, S (2015). *Principles of Neuroplasticity in Aphasia. Advances in our current understanding.* Braintree Neurorehabilitation conference. Boston, MA.
30. Kiran, S (2015). *Using big data to understand and improve rehabilitation in aphasia.* Braintree Neurorehabilitation conference. Boston, MA
31. Kiran, S (2015). *Understanding, facilitating and predicting language recovery in aphasia.* Moss Rehabilitation Research Institute, Philadelphia, PA
32. 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)
33. Kiran. S. (2014). *Effect of an ipad based individual therapy.* Visiting Scholar. Moss Rehabilitation Research Institute, Philadelphia, PA
34. Kiran. S. (2014). *Changes in task based connectivity following rehabilitation in aphasia.* Visiting Scholar. Moss Rehabilitation Research Institute, Philadelphia, PA
35. Kiran. S. (2014). Response to Bruce Tomblin. *Genetics and Aphasia Recovery.* NIDCD Sponsored Research Symposium. *Clinical Aphasiology Conference.* St Simons Island, Georgia.
36. Kiran S. (2014). *The nature of language recovery in monolingual and bilingual aphasia.* Language and Cognition Seminar Series, Harvard University, Boston, MA
37. Kiran S. (2014). *The nature of language recovery in monolingual and bilingual aphasia.* University of Illinois, Urbana Champaign, IL
38. Kiran S. (2014). *Changes in task based effective connectivity following rehabilitation in aphasia.* BrainMap Seminar Series, Martinos Center for Biomedical Imaging, Boston, MA.
39. Kiran, S. (2012). *Bilingual aphasia rehabilitation.* New Jersey State Speech and Hearing Association Convention. Ocean Township, NJ.
40. Kiran, S. (2010). *Language recovery in individuals with aphasia: Perspectives from neuroimaging and rehabilitation data.* University of Connecticut Cognitive Science Program. New Haven, CT
41. Kiran, S. (2010). *Language recovery in individuals with aphasia: Perspectives from neuroimaging and rehabilitation data.* Boston University Institute for Neuroscience, Boston, MA.

42. 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.
43. 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.
44. Kiran, S. (2009). *Rehabilitation of lexical retrieval in aphasia: Evidence from semantic complexity.* Spaulding Rehabilitation Hospital, Boston, MA.
45. Kiran, S. (2009). *Rehabilitation of lexical retrieval in aphasia: Evidence from semantic complexity.* Boston Aphasia Talks research colloquium series.
46. Kiran, S. (2009). *Bilingual Aphasia: Neural Substrates, cognitive control and rehabilitation.* Center for Language Science, Pennsylvania State University.
47. Kiran, S. (2008, September). *Bilingual Aphasia: Factors affecting recovery and rehabilitation.* 3rd Annual Eleanor M Saffran Cognitive Neuroscience Conference. Philadelphia, PA.
48. Kiran, S. (2008). *The role of exemplar typicality in rehabilitation of naming deficits in aphasia.* Boston University, Boston. MA.
49. Kiran, S. (2008, April). *Bench research in Stroke.* Current Concepts in Stroke, Austin, TX
50. 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.
51. 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 250
1. Abdollahi, F., Scimeca, M., Peñaloza, C. & Kiran, S. (2021, November). *Confronting health disparities for bilinguals with aphasia.* Accepted for oral presentation at the Annual Convention of the American Speech-Language-Hearing Association. Washington, D.C., USA.
2. Billot A., Lai S., Varkanitsa M., Braun E.J., Rapp B., Parrish T.B., Kurani A.S., Higgins J., Caplan D., Thompson C.K., Betke M., Ishwar P., Kiran S., (2021, October) *Multimodal behavioral and neural data predict response to treatment in post-stroke aphasia.* Accepted for oral presentation at the Society for the Neurobiology of Language (held virtually)
3. Billot A., Lai S., Varkanitsa M., Braun E. J., Gu Y., Bahrani M., Bighetto J., Rapp B., Parrish T. B., Caplan D., Thompson C. K., Ishwar P., Betke M., Kiran S. (2020, October) *Predicting post-stroke aphasia recovery from multimodal neuroimaging data.* Accepted for oral presentation at the 11th World Congress for Neurorehabilitation. (held virtually)
4. Billot A., Lai S., Varkanitsa M., Braun E.J., Rapp B., Parrish T.B., Kurani A.S., Higgins J., Caplan D., Thompson C.K., Ishwar P., Betke M., Kiran S. (2021, March) *Prediction of treatment-related language recovery in post-stroke aphasia from neuroimaging and behavioral data.* Accepted as a poster at the Cognitive Neuroscience Society. (held virtually)

5.	Gilbert, C., Citorik, A., Gilmore, N., Kiran, S. (2021, November). 2009V: Getting our CCC's: *Cognitive and Communication Rehabilitation, COVID-19, and Continuity of Care Through Telepractice*. Proposal accepted for 1 hour pre-recorded oral seminar for the Hybrid 2021 American Speech-Language-Hearing Association Convention. Washington, D.C. (held virtually)

6.	Gilbert, C., Gilmore, N., Kiran, S. (2021, March). *Enabling Functional Outcomes Through Educational Rehabilitation.* Oral presentation at the Brain Injury Association of Massachusetts 39th Annual Brain Injury Conference. (held virtually)

7.	Gilbert, C. (2021, March). Aphasia: Who, What, When, Where, Why, & How. Continuing education presentation on Aphasia to the John Hancock Financial Services Clinical Team. (held virtually)

8.	Cordella, C., Munsell, M., Godlove, J., Anantha, V. & Kiran, S. (2021, November). *Patient-level predictors of therapy outcomes following self-managed telerehabilitation.* Accepted for oral presentation at the Annual Convention of the American Speech-Language-Hearing Association. Washington, D.C. , USA. (held virtually)

9.	Cordella, C., Munsell, M., Godlove, J., Anantha, V., Advani, M. & Kiran, S. (2021, October). *Investigating dosage frequency effects on therapy outcomes following self-managed telerehabilitation.* Accepted for poster presentation at the Annual Meeting of the Academy of Aphasia. (held virtually)

10.	Falconer, I., Varkanitsa, M. & Kiran, S. (2021, October). Pre-treatment graph measures of resting-state functional connectivity predict language treatment outcome in aphasia. Accepted for slide slam presentation at the Annual Meeting of the Society for the Neurobiology of Language (held virtually)

11.	Carpenter, E., Peñaloza, C., Rao, L., & Kiran, S. (2021, October). *Clustering and switching in verbal fluency across different language contexts: Evidence from bilingual aphasia.* Accepted for pre-recorded oral presentation at the 13th Annual Meeting of the Society for the Neurobiology of Language. (held virtually)

12.	Varkanitsa, M., Peñaloza, C., Charidimou, A., Caplan, D. & Kiran, S. (2021, October). *Cerebral small vessel disease burden: A biomarker for post-stroke aphasia recovery.* Accepted for poster presentation at the 59th Annual Meeting of the Academy of Aphasia, (held virtually)

13.	Dekhtyar, M., Mukadam, N., Braun, E. J., Zheng, H., Genovese, A., & Kiran, S. (2021, November). C.H.A.T.: *Communication through Health, Art and Technology, A support group for individuals with aphasia.* One-hour talk accepted at the Convention of the American Speech-Language-Hearing Association, Washington, D.C. (held virtually)

14.	Braun, E. J. & Kiran, S. (2021, October). *Influence of stimulus- and patient-level factors on naming treatment outcomes in individuals with aphasia.* Accepted for 20-minute Platform presentation at the 59th Annual Academy of Aphasia Meeting, Virtual. (held virtually)

15.	Braun, E. J. & Kiran, S. (2021, October). *Influence of item- and individual-level semantic and phonological characteristics on word production in individuals with aphasia.* Accepted for Slide Slam presentation at the Society for the Neurobiology of Language 2021 Annual Meeting, (held virtually)

16. Lai, S., Billot, A., Varkanitsa, M., Braun, E. J., Rapp, B., Parrish T. B., Kurani, A. S., Higgins, J., Caplan, D., Thompson, C. K., Kiran, S., Betke, M., & Ishwar, P. (2021, June). *An exploration of machine learning methods for predicting post-stroke aphasia recovery*. Paper presented at PETRA '21: The 13th PErvaseive Technologies Related to Assistive Environments Conference (PETRA), Corfu, Greece. DOI: 10.1145/3453892.3461319

17. Billot, A., Lai, S., Varkanitsa, M., Braun, E. J., Rapp, B., Parrish, T., Kurani, A. S., Higgins, J., Caplan, D., Thompson, C. K., Ishwar, P., Betke, M., & Kiran, S. (2021, March). *Prediction of treatment-related language recovery in post-stroke aphasia from neuroimaging and behavioral data.* Poster presented at Cognitive Neuroscience Society 2021 Annual Meeting, Virtual.

18. Marte, M.J., & Kiran, S. (2021, October). *Influences on cognate facilitation in healthy bilinguals and bilinguals with aphasia.* Accepted as slide slam presentation at the 13th Annual Meeting of the Society for the Neurobiology of Language.

19. Gilmore, N.**,** Mirman, D., & Kiran, S. (2020, October). *Young Adults with Acquired Brain Injury Show Significant Gains in Cognitive Function Following Intensive Rehabilitation.* Accepted for poster presentation at the 2020 American Congress of Rehabilitation Medicine (ACRM) 97th Annual Conference. Atlanta, Georgia, USA (held virtually).

20. Gilmore, N., Yücel, M. & Kiran, S. (2020, October). *Investigating language and cognitive processing in healthy and neurologically-impaired individuals using functional near-infrared spectroscopy (fNIRS).* Accepted for poster presentation at the Academy of Aphasia 58th Annual Meeting. Philadelphia, PA, USA (held virtually).

21. Gilmore, N., Li, X., Yücel, M. & Kiran, S. (2020, February). *Examining the neural substrates of language and cognitive processing in young adults with acquired brain injury using functional near-infrared spectroscopy.* Accepted as oral presentation at ABI2020 15th Annual Conference on Brain Injury. New Orleans, LA, USA. (held virtually)

22. Gilmore, N.**,** Li, X., Yücel, M., Kiran, S., & Boas, D. (2020, January). *Investigating the Neural Bases of Language and Cognitive Processing in Healthy Adults Using Functional Near-Infrared Spectroscopy.* Accepted for poster presentation at Neurophotonics Center's 3rd Annual Symposium. Boston, MA, USA.

23. 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, (held virtually)

24. 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, (held virtually)

25. 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.

26. 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

27. 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.

28. Grasemann, 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.

29. Peñaloza, C., Varkanitsa, M., Charidimou, A., Caplan, D., & Kiran, S. (August, 2019). *White matter hyperintensity predicts treatment outcomes in aphasia.* 11th annual meeting of the Society for the Neurobiology of Language, Helsinki, Finland.

30. 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.* 11th annual meeting of the Society for the Neurobiology of Language, Helsinki, Finland.

31. 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.

32. 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.

33. 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

34. 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.

35. 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.

36. 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.

37. 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 49thAnnual Clinical Aphasiology Conference, Whitefish, Montana.

38.   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.

39.   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.

40.   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.

41.   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.

42.   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.

43.   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.

44.   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.

45.   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

46.   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.

47.   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.

48.   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.

49.   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.

50.   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.

51.   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.

52.   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 10th Annual Meeting of the Society for the Neurobiology of Language, Québec City, Canada.

53.   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.

54.   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.

55.   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*th Annual Meeting of the Society for the Neurobiology of Language, Quebec City, Canada.

56.   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*th Annual Meeting of the Society for the Neurobiology of Language, Quebec City, Canada.

57.   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.

58.   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 48th Annual Clinical Aphasiology Conference, Austin, TX.

59.   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.*

60.   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.

61.   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.

62.   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 9th Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.

63.   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 55th Annual Meeting of the Academy of Aphasia, Baltimore, MD.

64.   Quillen, I.A., & Kiran, S. (2017, November). Effects of Lexical Stress on Noun and Verb Production in Aphasia. Accepted for poster presentation at the 55th Annual Meeting of the Academy of Aphasia, Baltimore, MD

65.   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 9thAnnual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.

66.   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.

67.   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.

68.   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.

69.   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.

70.   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.

71.   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[th]Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.

72. 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 9th Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.

73. 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.

74. Peñaloza, 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.

75. Peñaloza, 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.

76. 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) 47th Annual Conference. Salt Lake City, Utah.

77. 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. 12th World Congress on Brain Injury. New Orleans, Louisiana.

78. 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.

79. 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.

80. 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.

81. 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.

82. 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.

83. Kiran, S., & Godlove, J., (February, 2017). *Personalizing Rehabilitation for Stroke Survivors- A Big Data Approach*. International Stroke Conference, Houston, Texas.

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

Post-Doctoral Mentees		
Claire Cordella	Ph.D. 2019	Current Post Doc
Fatemeh Abdollahi	Ph.D 2019	Current Post Doc

Maria Varkanitsa	Ph.D. 2015	Current Post Doc
Lindsay Butler Trump	Ph.D 2016	Currently post doc with Helen Tager Flusberg
Claudia Penaloza	Ph.D. 2016	Currently Scientist, University of Barcelona, Spain
Rachel Ryskin	PhD 2016	Currently Assistant Professor, University of California, UC Merced
Carrie Niziolek	Ph.D. 2010	Currently Assistant Professor, University of Wisconsin, Madison
Sofia Vallila Rohter	Ph.D., 2014	Currently Assistant Professor, MGH-IHP

Ph.D Dissertation Committee Chair

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 Associate 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 Associate 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 Assistant Professor, Northeastern University *Winner of 2016 ASHF New Century Scholar Doctoral Award. *Recipient of NIH F31 fellowship
Natalie Gilmore	May, 2021	Currently post-doctoral fellow, MGH **Recipient of NIH F31 and T32 fellowship
Ran Li	In progress	3rd year PhD student

Emily Braun	In progress	2nd year PhD student *Recipient of NIH T32 fellowship
Anne Billot	In progress	2nd year PhD student *Recipient of 2020 ANCDS fellowship award
Michael Scimeca	In progress	1st year PhD student *Recipient of 2020 ASHF graduate fellowship
Erin Carpenter	In progress	1st year PhD student
Manuel Marte	In progress	1st year PhD student *Recipient of NIH T32 fellowship
Isaac Falconer	In progress	2nd year MD/PhD student

M.A. thesis Committee Chair at Boston University

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 ipslesional 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	"Factors affecting outcomes for semantic feature analysis treatment in post-stroke bilingual aphasia"
Erin Carpenter	2020	"Varying Degrees of Cognitive Control and it's Impact on Lexical Access During Verbal Fluency Tasks in Bilingual Persons with Aphasia"

CERTIFICATIONS

2009-present   Licensed Speech Language pathologist, State of Massachusetts
2002-2 009   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