CURRICULUM VITAE
Simon Jacob Fischer-Baum

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Updated 12/13/2018

EMPLOYMENT

2013-present	Assistant Professor, Psychology, Rice University, Houston, TX Director, Cognitive Science Program Spring 2015, 2018-present
2010-2012	Beckman Institute Post-Doctoral Fellow, Beckman Institute, University of Illinois, Urbana-Champaign, IL

EDUCATION

2005-2010	Ph.D., Cognitive Science, Johns Hopkins University
2005-2008	M.A., Cognitive Science, Johns Hopkins University
1999-2003	B.A. with Honors, Neuroscience and Behavior, Columbia University

PEER-REVIEWED JOURNAL ARTICLES   * MENTEES   UNDERGRADS

In press (34)   **Fischer-Baum, S.** (In press). A common representation of serial position language and memory. In K. Fedemeier and D. Watson (eds). *Psychology of Learning and Motivation vol. 68.* Academic Press.

In press (33)   **Fischer-Baum, S.**, Dial, H & Mis, R..*. (In press). Word deafness with preserved number word perception. *Cognitive Neuropsychology*

In press (32)   **Fischer-Baum, S.** & Tian, Y.* (In press). The case for single case studies in memory research. In S. MacPhearson and S. Della Salla (eds). *Single Case & Memory Handbook.* Taylor & Francis.

In press (31)   Miozzo, M., Shuster, V. & **Fischer-Baum, S.** (In press). How modality-specific is morphology? *Cognitive Neuropsychology.*

In press (30)   Zhai, M.*. & **Fischer-Baum, S.** (in press). Exploring the effect of knowledge of writing on reading Chinese characters in skilled readers *Journal of Experimental Psychology: Learning, Memory and Cognition.*

2018 (29)   **Fischer-Baum, S.**, Kook, J.H, Lee, Y., Ramos-Nuñez, A.*, Vannucci, M. (2018). Sight or sound? Individual differences in the neural and cognitive mechanisms of single word reading. *Frontiers in Human Neuroscience,12,* 271.

2017 (28)   **Fischer-Baum, S.** & Campana, G.E.* (2017). Neuroplasticity and the logic of Cognitive Neuropsychology. *Cognitive Neuropsychology, 34,* 403-411.

2017 (27)   Medina, O.J. & **Fischer-Baum, S.** (2017). Single-case cognitive neuropsychology in the age of big data. *Cognitive Neuropsychology, 34,* 440-448.

2017 (26)	Ramos-Nuñez, A.*, **Fischer-Baum, S.,** Martin, R., Yue, Q., Ye, F & Deem, M. (2017). Static and dynamic measures of human brain connectivity predict complementary aspects of human cognitive performance. *Frontiers in Human Neuroscience, 11.*
2017 (25)	Yue, Q., Martin, R., **Fischer-Baum, S.,** Ramos-Nuñez, A.*, Ye, F & Deem, M. (2017). Brain modularity mediates the relation of cognitive performance to task complexity. *Journal of Cognitive Neuroscience, 29,* 1532-1546.
2017 (24)	**Fischer-Baum, S.** (2017). The independence of letter identity and letter doubling in reading. *Psychonomic Bulletin & Review, 24,* 873-878.
2017 (23)	**Fischer-Baum, S.,** Bruggemann, D., Gallego, I.F., Li, D.S.P.* & Tamez, E.R. (2017). Decoding levels of representation in reading: A representational similarity approach. *Cortex, 18,* 88-102.
2017 (22)	**Fischer-Baum, S.,** Jang, A., & Kajander, D.*. (2017). Functional neuroplasticity of reading recovery following chronic stroke: A representational similarity approach. *Neural Plasticity, vol. 2017*, Article ID 2761913, 16 pages. doi:10.1155/2017/2761913.
2016 (21)	**Fischer-Baum, S.**, Miozzo, M., Laiacona, M. & Capitani, E. (2016). Perseveration during verbal fluency in traumatic brain injury reflects impairments in working memory. *Neuropsychology, 30*, 791-799.
2016 (20)	Miozzo, M., Petrova, A., **Fischer-Baum, S.** & Peressotti, F. (2016). Serial position encoding of signs. *Cognition, 154,* 69-80.
2016 (19)	**Fischer-Baum, S.** & Englebretson, R.. (2016). Orthographic units in the absence of visual processing: Evidence from sublexical structure in braille. *Cognition, 153,* 161-174.
2015 (18)	Rapp, B.**, Fischer-Baum, S.** & Miozzo, M. (2015). Modality and morphology: What we write may not be what we say*. Psychological Science, 26*, 892-902.
2015 (17)	**Fischer-Baum, S.** & McCloskey, M. (2015). Representation of item position in verbal short-term memory: Evidence from intrusion errors. *Journal of Experimental Psychology: Learning, Memory and Cognition, 41,* 1426-1446.
2015 (16)	**Fischer-Baum, S.** (2015). How much better?: The challenge of interpreting interactions in intervention studies. *Aphasiology*, *29,* 609-614.
2015 (15)	Rapp, B. & **Fischer-Baum, S.** (2015). Uncovering the cognitive architecture of spelling. In A. Hillis (ed). *Handbook of Adult Language Disorders*. Hove: Psychology Press.
2014 (14)	**Fischer-Baum, S.**, Dickson, D. S. & Federemeier, K.D. (2014). Frequency and regularity effects are task dependent: Evidence from ERPs. *Language, Cognition and Neuroscience, 29,* 1342-1355.
2014 (13)	**Fischer-Baum, S.** & Benjamin, A.S. (2014). Time, Space and Memory for Order. *Psychonomic Bulletin & Review, 21,* 1263-1271.
2014 (12)	**Fischer-Baum, S.** & Rapp, B. (2014). The analysis of perseverations in acquired dysgraphia reveals the internal structure of orthographic representations. *Cognitive Neuropsychology*, *31*, 237-265.
2014 (11)	Rapp, B. & **Fischer-Baum, S.** (2014). Representation of orthographic knowledge. In V. Ferreria, M. Goldrick & M. Miozzo (eds.) *Oxford Handbook of Language Production.* New York: Oxford University Press

2013 (10)	**Fischer-Baum, S.** (2013). Making sense of deviance: Identifying dissociating cases in the case series approach. *Cognitive Neuropsychology*, *30*, 597-617.
2013 (9)	McCloskey, M., **Fischer-Baum, S** & Schubert, T. (2013). Representation of letter position in single-word reading: Evidence from acquired dyslexia. *Cognitive Neuropsychology*, *30,* 396-438.
2013 (8)	Miozzo, M., **Fischer-Baum, S.** & Caccappolo-van Vliet, E. (2013). Perseverations in Alzheimer's Disease: Memory slips? *Cortex. 49,* 2028-2039.
2013 (7)	**Fischer-Baum, S.** & Gonsalves, B. (2013). Stuck in the past: Neural events that predict prior list intrusions. *Psychological Science, 24,* 742-750.
2012 (6)	**Fischer-Baum, S**. & Rapp, B. (2012). Underlying cause(s) of letter perseveration errors. *Neuropsychologia. 50,* 305-318.
2011 (5)	Costa, V., **Fischer-Baum, S.,** Capasso, R., Miceli, G. & Rapp, B. (2011). Temporal stability and representational distinctiveness: Key functions of orthographic working memory. *Cognitive Neuropsychology, 28,* 338-362.
2011 (4)	**Fischer-Baum**, S., Charny, J. & McCloskey, M. (2011). Both-edges representation of letter position in reading. *Psychonomic Bulletin & Review, 18*, 1083-1089.
2010 (3)	Miozzo, M., **Fischer-Baum, S**. & Postman, J. (2010). The dissociability of morphological processing and lexical access, *Neuropsychologia, 48,* 2427-2436.
2010 (2)	**Fischer-Baum, S.**, McCloskey, M. & Rapp, B. (2010). The representation of grapheme position: Evidence from acquired dysgraphia, *Cognition, 115,* 466-490.
2008 (1)	Miozzo, M., **Fischer-Baum, S.** & Postman, J. (2008). Knowing where but not what: Impaired thematic roles and spatial language. *Cognitive Neuropsychology, 25,* 853-73.

PAPERS CURRENTLY UNDER REVIEW

Fischer-Baum, S., Warker, J.A & ,Holloway, C. (revise and resubmit). Learning Phonotactic-like Regularities in Immediate Serial Recall. *Journal of Experimental Psychology: Learning, Memory and Cognition*

Miozzo, M., Shuster, V. & **Fischer-Baum, S.** (Resubmitted). Does it matter for spelling that corn is in corner? *Cognition.*

Tian, Y.*, Beier, M. & **Fischer-Baum, S.** (under review). The domain-specificity of serial order working memory.

Noe, C.* & **Fischer-Baum, S.** (under review). Early lexical influences on sublexical processing in speech perception: Evidence from electrophysiology.

CONFERENCE PROCEEDINGS

2017	Irons, S.*, Oppenheim, G.M. & **Fischer-Baum, S.** (2017). Breaking the *Dark Side*: A computational neuropsychology approach. *Frontiers in Psychology.*
2017	Shuster, V., Miozzo, M. & **Fischer-Baum, S.** (2017). Morphological processing in spelling. *Frontiers in Psychology*
2017	**Fischer-Baum, S.** & Toscano, J. (2017). Dissociation between lexical and indexical processing during speech perception. *Frontiers in Psychology.*

2017   Tian, Y.* & **Fischer-Baum, S.** (2017). Separate Serial Order Short-term Memory Systems: A Case Series Approach. *Frontiers in Psychology.*

2016   Mis, R.* & **Fischer-Baum, S.** (2016). Word deafness with preserved number comprehension. *Frontiers in Psychology.*

2016   **Fischer-Baum, S.** & Jang, A.* (2016). The cognitive neuroplasticity of reading recovery in chronic aphasia: A representational similarity approach. *Frontiers in Psychology.*

2015   Chang, C. B., & **Fischer-Baum, S.** (2015). The effect of semantic predictability on vowel production with pure word deafness. In The Scottish Consortium for ICPhS 2015 (Ed.),*Proceedings of the 18th International Congress of Phonetic Sciences*. Glasgow, UK: The University of Glasgow.

2014   **Fischer-Baum, S.** & Kajander, D.* (2014). Can words be read without abstract letter identities? *Frontiers in Psychology.*

2013   **Fischer-Baum, S.** (2013). General principles of serial order. *Procedia – Social and Behavioral Sciences, 94*, 216-217.

2013   Ries, S. & **Fischer-Baum, S.** (2013). Cross-domain approaches to the language puzzle. *Procedia – Social and Behavioral Sciences, 94,* 211.

2012   **Fischer-Baum, S.** (2012). Making sense of deviance: Outliers in the case series approach. *Procedia – Social and Behavioral Sciences, 61,* 12-13.

2012   **Fischer-Baum, S.** & Goldrick, M. (2012). Case series: Opportunities and challenges. *Procedia – Social and Behavioral Sciences, 61,* 6-7.

2011   **Fischer-Baum, S.**, McCloskey, M., Mathis, D. & Wilson, C. (2011). Orthotactics influences on spelling errors in dysgraphia. *Procedia – Social and Behavioral Sciences, 23,* 240-241.

2011   McCloskey, M., **Fischer-Baum, S.** & Alkhunaizi, F. (2011). Letter position representation in reading: Evidence from acquired dyslexia. *Procedia – Social and Behavioral Sciences, 23,* 241-242.

2007   **Fischer-Baum, S.**, Rapp, B. & McCloskey, M. (2007). The Representation of letter position: Evidence from dysgraphia. *Brain and Language,103,*101-102.

2007   Rapp, B., **Fischer-Baum, S.**, & Pastor, T. (2007). Perseveration and Graphemic Representations: Double Letters and Digraphs. *Brain and Language, 103,* 105-106.

2006   **Fischer-Baum, S.,** Postman, J. & Miozzo, M. (2006). The dissociability of morphological processing and lexical access. *Brain and Language, 99,* 101-102.

2018	"A common representation of serial position language and memory." University of California, San Diego
2018	"Bridging cognitive and neural theories of reading and its recovery with representational similarity analysis " San Diego State University
2018	"Bridging cognitive and neural theories of reading and its recovery with representational similarity analysis " Royal Holloway University, London
2018	"Bridging cognitive and neural theories of reading with representational similarity analysis" Basque Center for Brain and Language
2018	"Cognitive network neuroscience and individual differences in working memory" Omega Psi Conference, Johns Hopkins University
2018	"Towards a cognitive architecture of braille reading and writing" Interdisciplinary Research Perspectives on Braille Reading and Writing, Rice University
2017	"Bridging cognitive and neural theories of reading with representational similarity analysis" Department of Psychology, University of Maryland
2017	"Bridging cognitive and neural theories of reading with representational similarity analysis" Department of Neurology, Georgetown University
2017	"Neural Plasticity and the Recovery of Language Function Following Stroke," MissionConnect, Houston, TX
2016	"Neuroplasticity and the logic of Cognitive Neuropsychology," Invited plenary lecture at the 34th European Workshop on Cognitive Neuropsychology, Bressanone, Italy
2016	"Representing order in spoken and written language," IDEALab Winter School, Rovereto, Italy
2014	"The structure of written language," Department Colloquium, Linguistics, Rice University, Houston
2014	"General principles of serial order," International Workshop on Language Production 2014, Geneva, Switzerland
2013	"Homogeneity," Scientia, Rice University, Houston
2012	"Stuck on the Past: What perseverations can teach us about cognition," Beckman Director's Seminar, University of Illinois, Urbana-Champaign
2012	"Order representation in written and spoken language," Phonetics Seminar, Linguistics Department, Northwestern University, Evanston, IL
2012	"The representation of segment position in spoken production: Evidence from perseveration errors," Invited plenary lecture at the 30th European Workshop on Cognitive Neuropsychology, Bressanone, Italy
2012	"General principles of serial order," Department of Psychology, Rice University, Houston, TX
2009	"The Representation of Position," Language and Cognition Seminar, School of Psychology, University of Birmingham, Birmingham, UK

2018   Noe, C.* & **Fischer-Baum, S**. *Electrophysiological evidence of early lexical influences on sublexical processing: Evidence from the Ganong Paradigm.* Psychonomics, New Orleans

Irons, S.* & **Fischer-Baum, S.** *Phonetic correlates of sublexical contributions to reading aloud familiar words.* Psychonomics, New Orleans

Schubert, T. , Cohen, T., & **Fischer-Baum, S** *Learning relationships between alphanumeric symbols through statistical properties.* Psychonomics, New Orleans

Warker, J., **Fischer-Baum, S.,** <u>Holloway, C.</u>. Poirier, R. & Fasano, R. *Phonetic correlates of sublexical contributions to reading aloud familiar words.* Psychonomics, New Orleans

Noe, C.* & **Fischer-Baum, S**. *The electrophysiological correlates of sublexical speech perception: A combined electrophysiological/cognitive neuropsychology approach.* Academy of Aphasia, Montreal

Fischer-Baum, S, Baca, E*. Rapp, B. & Martin, R. *A selective orthographic working memory deficit following cerebellar stroke.* Academy of Aphasia, Montreal

Noe, C.* & **Fischer-Baum, S.** *Using the N100 to Measure Top-Down Influence Onto Phonetic Feature Representations.* ARMADILLO, Houston, TX.

Tian, Y.*, Dial, H. **Fischer-Baum, S.** *The Domain-Specific Capacity for Serial Order Working Memory: A single case study.* ARMADILLO, Houston, TX.

Irons, S.* & **Fischer-Baum, S.** *Phonetic correlates of sublexical contributions to reading aloud familiar words.* ARMADILLO, Houston, TX.

Fischer-Baum, S.. *Reading by touch*. ARMADILLO, Houston, TX.

Noe, C.* & **Fischer-Baum, S**. *Electrophysiological evidence of early lexical influences on sublexical processing: Evidence from the Ganong Paradigm.* Society for the Neurobiology of Language, Quebec City.

Fischer-Baum, S, Irons, S.* & Oppenheim, G.M. *Breaking the Dark Side: A computational neuropsychology approach.* IWLP, Nijmegen, Netherlands

Irons, S.* & **Fischer-Baum, S.** *Phonetic correlates of sublexical contributions to reading aloud familiar words.* IWLP, Nijmegen, Netherlands

Fischer-Baum, S. *Mapping the neural correlates of reading with representational similarity analysis.* SSSR, Brighton, UK

Zhai, M.* & **Fischer-Baum, S.** *Exploring the effects of writing on reading in Chinese skilled readers.* SSSR, Brighton, UK.

Yue, Q., Martin, R., **Fischer-Baum, S.,** & Deem, M. *Language-specific and domain-general regions jointly predict individual differences in sentence comprehension: Evidence from a network approach.* Cognitive Neuroscience Society, Boston.

Poirier, R. C., Fasano, R. M., Warker, J. A., & **Fisher-Baum, S.** *Speech errors reveal learning bias for syllable positional constraints.* Eastern Psychological Association, Philadelphia, PA.

2017　　Jenkins, G., Noe, C.* & **Fischer-Baum, S.** *How to direct attention to favor memory formation.* Psychonomics, Vancouver.
Zhai, M.* & **Fischer-Baum, S.** *Exploring the effects of writing on reading in Chinese skilled readers.* Psychonomics, Vancouver.

Tian, Y.* & **Fischer-Baum, S** & Beier, M.. *The Domain-Specific Capacity for Serial Order Working Memory: An Individual Differences Approach.* Psychonomics, Vancouver.

Yue, Q., Martin, R., **Fischer-Baum, S.,** & Deem, M. *Language and multiple demand regions jointly predict individual differences in sentence comprehension: Evidence from a network approach.* Society for the Neurobiology of Language, Baltimore.

Fischer-Baum, S., Kook, J.H, Lee, Y., Ramos-Nuñez, A.*, & Vannucci, M.. *Sight or sound? Individual differences in the neural and cognitive mechanisms of single word reading.* Society for the Neurobiology of Language, Baltimore.

Irons, S.*, Oppenheim, G.M. & **Fischer-Baum, S.** *Breaking the Dark Side: A computational neuropsychology approach.* Academy of Aphasia, Baltimore

Shuster, V., Miozzo, M. & **Fischer-Baum, S.** *Morphological processing in spelling.* Academy of Aphasia, Baltimore

Fischer-Baum, S. & Toscano, J. *Dissociation between lexical and indexical processing during speech perception.* Academy of Aphasia, Baltimore.

Tian, Y.* & **Fischer-Baum, S.** *Separate Serial Order Short-term Memory Systems: A Case Series Approach.* Academy of Aphasia, Baltimore.

Zhai, M.* & **Fischer-Baum, S.** *Exploring the effects of knowledge of writing on reading Chinese characters in skilled readers.* ARMADILLO, College Station, TX.

Tian, Y.* & **Fischer-Baum, S.** *The Domain-Specific Capacity for Serial Order Working Memory.* ARMADILLO, College Station, TX.

Fischer-Baum, S.. *Bridging cognitive and neural theories of reading using representational similarity analysis*. ARMADILLO, College Station, TX.

Martin, R., Yue, Q., **Fischer-Baum, S.,** & Deem, M. *Brain modularity mediates the relation between sentence complexity and behavioral performance*. ARMADILLO, College Station, TX.

Balatsou, E. **Fischer-Baum, S**. & Oppenheim, G. *The psychological reality of picture name agreement.* AMLaP, Lancaster, UK.

Ramos-Nuñez, A.*, **Fischer-Baum, S.,** Martin, R., Yue, Q., Ye, F & Deem, M. *Static/Dynamic measures of human brain connectivity predict complementary aspects of human cognition*. Human Brain Mapping, Vancouver

Ye, F , Yue, Q., Martin, R., **Fischer-Baum, S.,** Ramos-Nuñez, A.* & Deem, M. Brain modularity mediates the relation of cognitive performance to task complexity*. American Physical Society,* New Orleans

Fischer-Baum, S. *Edge-based representations of item position in language and memory.* International Convention of Psychology Science, Vienna

Noe, C.* & **Fischer-Baum, S.** *Separating Stimulus-Processing and Task-Specific Components of the ERP Dm Waveform.* Aging and Cognition, Dallas

2016   **Fischer-Baum, S**. & Englebretson, R. *Orthographic units in the absence of visual processing: Evidence from sublexical structure in braille.* Psychonomics, Boston

Noe, C.* & **Fischer-Baum, S**. *Separating Stimulus and Task Effects Influencing Encoding Success, a Subsequent Memory ERP Study.* Psychonomics, Boston

Mis, R.* & **Fischer-Baum, S.** *Word deafness with preserved number comprehension*. Academy of Aphasia, Bangor, Wales

Fischer-Baum, S. & Jang, A.* *The cognitive neuroplasticity of reading recovery in chronic aphasia: A representational similarity approach*. Academy of Aphasia, Bangor, Wales

Petrova, A., Miozzo, M., **Fischer-Baum, S**. & Peressotti, F. *Serial position encoding of signs.* International Meeting of the Psychonomic Society, Grenada, Spain

Yue, Q., Martin, R., **Fischer-Baum, S.,** Ramos Nunez*, A, Deem, M. & Ye, F. *The role of task complexity in mediating relations of whole brain modularity to task performance.* Society for the Neurobiology of Language, London, UK

Petrova, A., Miozzo, M., **Fischer-Baum, S**. & Peressotti, F. *Why short term memory span for signs is lower than for speech.* Society for the Neurobiology of Language, London, UK

Warker, J. & **Fischer-Baum, S.** *Testing First-Order and Second-Order Constraint Learning in Visual Sequences*. IWLP, San Diego

Fischer-Baum, S. *A common representation of serial order in working memory and language production.* International Conference on Memory, Budapest, Hungary

Fischer-Baum, S., Holloway, C.* & Warker, J. *Learning item-position associations in immediate serial recall*. International Conference on Memory, Budapest, Hungary

Tian, Y.* & **Fischer-Baum, S**. *Evidence for separable serial order STM systems: A case study approach.* International Conference on Memory, Budapest, Hungary

Damato, A., Rodemann, A., Warker, J. & **Fischer-Baum, S**. *Limits on learning positional constraints in visual sequences.* Eastern Psychological Association, New York

2015   **Fischer-Baum, S.** Tamez, E.* & Li, D.* *Levels of representation during single word reading: Evidence from representation similarity analysis.* Society for the Neurobiology of Language, Chicago

Warker, J, **Fischer-Baum, S.** Della Posta, D. & Rodemann, A.. *Errors Reveal First-Order Constraint Learning in Visual Sequences.* Psychonomics, Chicago

Chang, C. B., & **Fischer-Baum, S.**. *The effect of semantic predictability on vowel production with pure word deafness.* International Congress of Phonetic Sciences, Glasgow, Scotland

2014   **Fischer-Baum, S.** & Holloway, C.*. *Learning phonotactic-like regularities in immediate serial recall.* Psychonomics, Long Beach

Fischer-Baum, S. & Kajander, D.* *Can words be read without abstract letter identities?.* Academy of Aphasia, Miami

Petrova, A., Miozzo, M., **Fischer-Baum, S.** & Peresotti, F. *Positional effects in short-term memory for the deaf.* From Sound to Gesture, Padua, Italy

2013   Dickson, D. S., **Fischer-Baum, S.** & Federemeier, K.D. *ERP Effects of Frequency and Regularity Are Modulated By Task Demands: Evidence from Categorization and Delayed Reading Aloud.* Neurobiology of Language, San Diego

Fischer-Baum, S. & Benjamin, A.S. *Time, space and memory for order.* Psychonomics, Toronto, Canada

Fischer-Baum, S. *General principles of serial order.* Academy of Aphasia, Lucerne, Switzerland

Fischer-Baum, S., Dickson, D. S. & Federemeier, K.D. *Are frequency and regularity effects task dependent? Evidence from ERPs.* Cognitive Neuroscience, San Francisco

2012   **Fischer-Baum, S**. *Repetition schema in verbal short-term memory.* Psychonomics, Minneapolis.

Fischer-Baum, S. *Making sense of deviance: Outliers in the case series approach.* Academy of Aphasia, San Francisco

Fischer-Baum, S. & Rapp, B. *The domain-general nature of item doubling: Evidence from perseveration errors.* AMLaP, Riva del Garda, Italy

Fischer-Baum, S. & Dell, G. *Comparing types of perseveration in spoken production.* IWOLP, New York

2011   McCloskey, M., Wilson, C., **Fischer-Baum, S**, Mathis, D., Glasser, A. & Ghondasara, S. *Form and functions of orthotactic knowledge.* Psychonomics, Seattle

Fischer-Baum, S. & McCloskey, M. *The representation of position verbal and non-verbal short-term memory.* Psychonomics, Seattle

Fischer-Baum, S., Olson, A, McCloskey, M., Romani, C. & Rapp, B. *Beyond the syllable position effect.* Mid-Phon 15, Urbana

Fischer-Baum, S., McCloskey, M., Mathis, D. & Wilson, C. *Influence of orthotactics on dysgraphic errors.* Academy of Aphasia, Montreal, Canada

McCloskey, M., **Fischer-Baum, S.** & Alkhunaizi, F. *Letter position representation in reading: Evidence from acquired dyslexia.* Academy of Aphasia, Montreal, Canada

Fischer-Baum, S. & McCloskey, M. *Domain-general properties of position representation.* ESCOP, San Sebastian, Spain

Fischer-Baum, S. & Smolensky, P. *Positive-overlapping letter position representation in reading: An axiomatic analysis of transposition priming.* Mathematical Psychology, Boston

2009   **Fischer-Baum, S.**, Charny, J. & McCloskey, M. *The representation of letter position in reading.* Psychonomics, Boston

Fischer-Baum, S., McCloskey, M, Jones, A., Folk, J. & Rapp, B. *Position representation in spelling and verbal working memory.* Academy of Aphasia

2008   **Fischer-Baum, S.** & McCloskey, M. *Serial order representation in immediate serial recall.* Psychonomics, Chicago

Miozzo, M., **Fischer-Baum, S.** & Postman, J. *Knowing what but not where: Impaired thematic roles and spatial language.* Academy of Aphasia, Turku, Finland

Fischer-Baum, S. & Rapp, B. *Underlying causes of letter perseveration errors in dysgraphia.* Academy of Aphasia, Turku, Finland

Costa, V., **Fischer-Baum, S.**, Rapp, B. & Miceli, G. *The representation of orthographic consonants: Evidence from dysgraphia.* IWOLP, Annapolis

Fischer-Baum, S. & Rapp, B. *Perseveration Errors and the Temporal Dynamics of Cognitive Processing.* Cognitive Neuroscience, San Francisco

2007   Rapp, B. & **Fischer-Baum, S***. Orthographic Morphology: Evidence from Acquired Dysgraphia.* Psychonomics, Long Beach

Fischer-Baum, S., Rapp, B. & McCloskey, M. *Encoding of Letter Position in Orthographic Representation: Evidence from Dysgraphia*. Psychonomics, Long Beach

Fischer-Baum, S., Rapp, B. and McCloskey, M. *The Representation of Letter Position: Evidence from Dysgraphia.* Academy of Aphasia, Washington

Rapp, B., **Fischer-Baum, S**., and Pastor, T. *Perseveration and Graphemic Representations: Double Letters and Digraphs.* Academy of Aphasia, Washington DC

Fischer-Baum, S., Rapp, B. and McCloskey, M. *The Representation of Letter Position in Spelling: Evidence from Acquired Dysgraphia.* Cognitive Science, Nashville

2006   **Fischer-Baum, S.,** Postman, J. and Miozzo, M. *The dissociability of morphological processing and lexical access.* Academy of Aphasia, Victoria, Canada

Rapp, B., Barriere, I. and **Fischer-Baum, S**. *Morpho-orthography: Evidence of modality specific morphological processes.* Mental Lexicon, Montreal, Canada

TEACHING

Semester	Number	Title		Enrollment	Effectiveness
Spr 13	PSYC 308	Memory	Sole	41	1.84
Spr 13	PSYC 485	UG Supervised Research	Sole	3	2.00
Fall 13	PSYC 485	UG Supervised Research	Sole	1	-
Fall 13	PSYC 529	Cognitive Research Seminar	Sole	13	1.71
Spr 14	PSYC 308	Memory	Sole	45	1.88
Spr 14	PSYC 485	UG Supervised Research	Sole	1	2.00
Spr 14	PSYC 529	Cognitive Research Seminar	Sole	12	1.75
Fall 14	PSYC 308	Memory	Sole	41	1.64
Fall 14	PSYC 485	UG Supervised Research	Sole	5	1.50
Fall 14	PSYC 529	Cognitive Research Seminar	Sole	11	1.44
Fall 14	PSYC 578	CogNeuro: Theories and Methods	Sole	10	1.25
Spr 15	PSYC/NEUR 362	Cognitive Neuroscience	Sole	113	1.56
Spr 15	CSCI 390	Supervised Research Cognitive Science	Sole	4	1.25
Spr 15	CSCI 390	Honors Project	Sole	2	1.00
Spr 15	PSYC 485	UG Supervised Research	Sole	4	1.33
Spr 15	PSYC 529	Cognitive Research Seminar	Sole	13	2.00
Fall 15	PSYC 485	UG Supervised Research	Sole	3	1.33
Spr 16	PSYC/NEUR 362	Cognitive Neuroscience	Sole	53	1.30
Spr 16	PSYC 485	UG Supervised Research	Sole	11	1.30
Spr 16	PSYC 524	Memory (Graduate Level)	Sole	5	1.00
Spr 16	PSYC 529	Cognitive Research Seminar	Sole	9	1.17
Spr 16	PSYC 561	Teaching in Psychology	Sole	1	1.00
Spr 16	PSYC 572	Second-Year Project	Sole	2	1.00
Spr 16	PSYC 700	Thesis Research	Sole	1	1.00
Fall 16	PSYC 308	Memory	Sole	44	1.35
Fall 16	PSYC 485	UG Supervised Research	Sole	5	1.25
Fall 16	PSYC 571	First Year-Project	Sole	2	1.00
Fall 16	PSYC 573	Non-Thesis Graduate Research	Sole	1	-
Fall 16	PSYC 638	Memory Research Seminar	Sole	1	1.00
Fall 16	PSYC 700	Thesis Research	Sole	1	-
Spr 17	PSYC 308	Memory	Sole	43	1.31
Spr 17	PSYC/NEUR 362	Cognitive Neuroscience	Sole	71	1.33
Spr 17	PSYC 485	UG Supervised Research	Sole	7	1.40
Spr 17	PSYC 561	Teaching in Psychology	Sole	1	1.00
Spr 17	PSYC 571	First Year-Project	Sole	2	1.00
Spr 17	PSYC 700	Thesis Research	Sole	1	1.00
Spr 17	PSYC 800	Dissertation Research	Sole	1	1.00
Fall 17	PSYC 485	UG Supervised Research	Sole	4	1.33
Fall 17	PSYC 572	Second Year-Project	Sole	2	1.00
Fall 17	PSYC 573	Non-Thesis Graduate Research	Sole	1	-
Fall 17	PSYC 700	Thesis Research	Sole	2	1.00
Spr 18	PSYC/NEUR 362	Cognitive Neuroscience	Sole	80	1.49
Spr 18	PSYC 485	UG Supervised Research	Sole	4	1.00
Spr 18	PSYC 572	Second Year-Project	Sole	2	1.00
Spr 18	PSYC 800	Dissertation Research	Sole	1	1.00
Spr 16	PSYC 561	Teaching in Psychology	Sole	1	1.00
Spr 18	PSYC 700	Thesis Research	Sole	1	1.00

Camp Neuro: "Neuroscience and the Media" (Summer 2017)
Rice University: "Language Acquisition" (Spring 2017)
UT-HSC: "Intermediate Cognitive Neuroscience" (Fall 2016, Spring 2018)
Young Owls Leadership Program: "Cognitive Neuroscience" (Summer 2016)
University of Houston: "Medical Speech-Language Pathology" (Summer 2014)
Rice University: "Research on Braille " (Spring 2014)
Rice University: "Rice Undergraduate Scholars Program" (Fall 2013)
Rice University: "Professional Issues" (Fall 2013)
Rice University: "Advanced Cognitive Neuroscience" (Fall 2013, 2017)
Rice University: "Foundations of Cognitive Psychology" (Spring 2013, 2015, 2017)
University of Illinois: "Language: A users guide" (Fall 2012)
Johns Hopkins University: "Cognitive Development Seminar" (Spring, 2009)
Johns Hopkins University: "The Literate Mind and Brain" (Spring 2007, 2009)

MENTORING

Primary Graduate Mentor:
    Colin Noe, 2014-present, M.A. 2018
    Yingxue Tan, 2014-present, M.A. 2018, *Winner Kenneth Laughery award for best Master's Thesis in Psychology*
    Sarah Irons, 2016-present
    Mingjun Zhai, 2016-present

Primary Postdoctoral Scholar Mentor
    Aurora Ramos-Nuñez, 2015-2017, Current, Assistant Professor, College of Coastal Georgia

Visiting Scholars:
    Donald Li, July 2014-August 2014, visiting from Tsinghau University, Beijing University, Current, Graduate Student, Johns Hopkins University
    Anna Petrova, Oct-Nov 2014, visiting from University of Padua, Italy Current, Post-Doc, University of Hong Kong
    Demet Özer, Jan 2015-March 2015, visiting from Koç University, Turkey Current, Graduate Student, Koç University, Turkey

Undergraduate Research Mentor (years in lab):
    Karen Hong (2013-2014), Current, Masters Student, Communication Sciences, NYU
    Lilia Ramos (2013), Current, Forensic Interviewer, Children's Advocacy Center
    Charli Holloway (2013-2015), Current, Human Resources, Keais Record Retrieval
    Emilio Tavez (2013-2014: *Winner: Excellence in Capstone Engineering Design*), Current, Analyist, Hilary for America
    Dorothy Bruggeman (2014-2015), Current, Caterer, Tangerine Food Company
    Ellenna Eccles (2014), Current, Project Coordinator, Daily Thermetrics
    Sherman Belton (2014-2015), Current, Facility Manager, Rice University
    Elizabeth Garcia (2014-2015), Current, Clinical Psychology Graduate Student, Xavier
    Ava Jang (2014-present), Current, Research Assistant, BCM
    Ivan Gallego (2014-2016), Current, Rice Senior
    Bailey Brashears (2015-present), Current, Rice Senior
    Luis Vasquez (2015-present), Current, Rice Junior
    Yoseph Lee (2016-present), Current, Rice Junior
    Kristina Johnson (2016-present), Current, Rice Junior
    Serena Brandler (2016-present), Current, Rice Junior
    Naomi Eigbe (2016-present), Current, Rice Junior
    Alicia McCormick (2016), Current, Rice Junior
    Allison Gregg (2016), Current, Rice Junior
    Julia Jung (2016), Current, Rice Junior
    Georgia Jenkins (2016-present), Current Rice Sophomore

Jacqueline Chamberlain (2016), Current Rice Sophomore
Talia Liu
Claire Ciampa
Deepika Narayanan
Jake Johnson
Elizabeth Anderson
Kathleen Bradbury
Sriparna Sen
Laney Brown
Lauren Yeom, *(Winner: Social Sciences Award, RURS 2018*)
Dissertation Committees (not primary advisor):
Denise Harvey (2014)
Yingying Tan (2015)
Jingyi Geng (2015)
Tao Wei (2016)
Heather Dial (2016)
Hao Yan (2017)
Qiuhai Yue (in progress)
Alda Rivas (2018)
Penelope Howe (Outside member: Rice Linguistics, 2017)
Bazille Laneau (Outside member: Rice Linguistics, 2017)
Philipp Stempel (Outside member: Rice Linguistics, in progress)
Ben Krause (Outside member: Shepard School, 2014)
Kiefer Foresth (Outside member: UT-HSC, Neurosurgery, in progress)
Eric Kook (Outside member: Rice Statistics, in progress)
Patrick O'Driscoll (Outside member: Rice Applied Physics, 2018)
Master's Committees (primary advisor):
Yingxue Tian (2018): *Winner Laughery Award for Best Master's Thesis*
Colin Noe (2018)
Master's Committees (not primary advisor):
Julie Hughes (2013)
Alda Rivas (2015)
Curtiss Chapman (2016)
Vanessa Martin (University of Houston, Communication Sciences; 2014)

PROFESSIONAL AFFILIATIONS

The Academy of Aphasia (Membership Committee 2015-2017, Chair, 2016-2017; Program Committee 2018-present)
Psychonomic Society, Fellow
Cognitive Neuroscience Society
Society for the Neurobiology of Language

COMMUNITY SERVICE

Member, Research Advisory Board, Houston Aphasia Recovery Center (2014-present)
Conference Organizer, ARMADILLO 2018
Community Talk: Chambana Science Café (2012)
Community Talk: Center for Talented Youth Family Odyssey (2008)

UNIVERSITY SERVICE

Resident Associate, McMurtry College, 2014-2018
Cognitive Science Program, Director, Spring 2015, 2018-present, Major Advisor, 2016-present
NeuroX Steering Committee, 2016-present (Co-Organizer, NeuroX Mini-Symposium, 2016), Major/Minor Advisor, 2016-present
Member, Cog/Affective Neuroscience Search Committee (2017-2018)
Member, Phonology/Phonetics Lecturer Search Committee (2018)
Faculty Organizer, Psyc 529: Cognitive Tea (2013-2016)
Member, Task Force on Non-Tenure Track Faculty (2013-2014)
Judge, UT-Rice-BCM Annual Neuroscience Poster Session (2013-present)

EXTERNAL SERVICE

Associate Editor: *Cognitive Neuropsychology,* 2016-present

Ad hoc reviewer, Journals: *Psychonomic Bulletin & Review, Cognition, Cognitive Psychology, Journal of Experimental Psychology: Language, Memory & Cognition, Acta Psychologica, Cognitive & Behavioral Neurology, Cognitive Science Society Conference, Neurocase, Language Learning and Development, NeuroImage: Clinical, Cortex, Journal of Cognitive Psychology, Cognitive, Affective and Behavioral Neuroscience, PLOS ONE, British Journal of Psychology, Psychological Review, Psychological Research, Scientific Reports, Journal of Neural Engineering, Frontiers in Human Neuroscience, American Journal of Speech-Language Pathology, Brain and Language, Cognitive Science*

Ad hoc reviewer, Grants: *Romanian National Counsel for Scientific Research, French National Research Agency ANR, Biotechnology and Biological Sciences Research Council UK, National Science Foundation*

2018	Recognition by 32nd Scholar-Athlete Banquet, Rice University
2018-2023	NSF CAREER Awardee
2016	"Rising Star," Association for Psychological Science
2015	"Must take Psychology Professors in Houston" Careers in Psychology
2010-2013	Beckman Institute Post-doctoral Fellowship ($25,000 research grant)
2009-2010	William Orr Dingwall Foundation Neurolinguistic Fellowship
2005-2009	National Science Foundation, IGERT Fellowship
2005-2006	Dean's Graduate Fellowship, Johns Hopkins University
2006	National Science Foundation Graduate Fellowship, Honorable Mention

CURRENT AND PENDING RESEARCH SUPPORT

External

NIH R21 DC016715: Functional reorganization of the reading system following stroke
9/26/17-8/31/20
NIDCD Early Career Research (ECR) Award (Role: Sole PI)
Total Award: *$455,469 (Direct Costs: $300,000)*

NSF BCS 1752751: CAREER: Mapping the neural locus of cognitive processes in word reading
4/1/18-3/31/23
NSF CAREER Grant (Role: Sole PI)
Total Award: $*418,693 (Direct Costs: $282,477)*
            REU Supplement Awarded ($12,000) Dates: 6/1/18-8/31/18

NSF EEC 1840636: Planning Grant: Engineering Research Center for Auditory Bioengineering
9/15/18-8/31/19
National Science Foundation (Role: Co-PI, Rob Raphael, PI)
Total Award: $98,227

Investigating the Networks of Temporal Context Memory in TBI and Healthy Controls
11/1/18-10/31/20
The Institute for Rehabilitation and Research Foundation (Role: PI)
Total Award: *$60,000*

Exploring the knowledge, skills, and strategies TVIs need to effectively teach braille reading and writing.
Pending
IES-NSCER Grant (Role: PI)
Total Award: $*1,400,000*

Internal

Neural bases of lexical access in epilepsy patients
Social Science Research Institute (Role: Sole PI)
Total Award: *$10,000*

Modeling the Auditory System: From Graph Signal Processing to Speech and Music Perception
InterDisciplinary Excellence Award (Role: Co-PI, Rob Raphael, PI)
Total Award: $74.060

Spatialization Of Verbal Serial Order Working Memory and Its Neural Underpinning
Social Science Research Institute, Pre-Dissertation Award (Role: Mentor, Yingxue Tian, PI)
Total Award: $2,000

COMPLETED RESEARCH SUPPORT

Interdisciplinary Research Perspectives on Braille Reading and Writing: A Small Conference
*Scientia Institute (*Role: Co-PI, Robert Englebreston, PI), Total Award: *$35,000*

Recovery from Inhibition Deficits Enhanced by tDCS   10/1/15-9/30/17
The Institute for Rehabilitation and Research Foundation (Role: PI), Total Award: *$60,000*

Individual differences in the neural code for reading   3/1/16 – 2/28/17
Social Science Research Institute (Role: PI), Total Award: *$29,987*

Recovery from Inhibition Deficits Enhanced by tDCS   1/8/14-6/1/16
Social Science Research Institute (Role: Co-I, Randi Martin PI)*, Total Award: *$29,708*

Mapping Dimensions of Linguistic Information in Language Processing   6/1/14-9/1/15
Faculty Initiative Funds, Rice University (Role: PI), Total Award: *$32,725*

Postdoctoral Research Fellowship and Research Fund   12/15/10-12/14/12
Arnold and Mabel Beckman Foundation, Total Award: *$191,500*

Total Research Support (Current, Pending and Completed) : $2,911,142

GRANT APPLICATIONS DENIED FUNDING

Crucial Contributions of the Temporal Lobe to Language & Verbal Memory: Controlled Lesions in Humans
NIH R21 (Role: Co-I, Nitin Tandon, UTHealth, PI)
Total Award: $*429,495* (Rice Subcontract; $106,000, Direct Costs: $74,000), Submitted, 2018

Mapping the neural substrates of language and its recovery in pre- and post-operative epilepsy patients
John S. Dunn Foundation (Role: PI)
Total Award: $*98,000,* Submitted 2017

Whole brain vs. task-relevant networks: Understanding individual differences in brain and behavior
InterDisciplinary Excellence Awards (IDEA) (Role: PI)
Total Award: $75,000: Submitted 2017

Advances in Bayesian Modeling of fMRI Data
National Institutes of Health (Role: Co-I, Marina Vannucci, PI)
Total Award: $1,338,760: Submitted 2016, Resubmitted 2017

NCS-FO: Individual variation in the cognitive and neural mechanisms of reading
National Science Foundation (Role: Lead PI)
Total Award: $*997,729,* Submitted 2017

Collaborative Research: Understanding Cognitive Performance from Dynamical Analysis of Neural Activation of Content-Specific and Domain General Pathways
National Science Foundation (Role: PI, Randi Martin, Lead PI)
Total Award: $*558,741,* Submitted 2017

Mathematics of individual differences in cognitive ability and plasticity of learning
Keck Foundation (Role: PI, Michael Deem, Lead PI)

Total Award: *$1,000,000* Submitted 2016

Detecting cognitive control impairments months after a sports related concussion using event-related potentials measured from electroencephalography
Simmons Foundation Mini Collaborative Grant (Role: PI)
Total Award: $20,000 Submitted 2016

Cognitive and neural heterogeneity in single word reading in literate adults
National Science Foundation (Role: PI)
Total Award: $*582,725,* Submitted 2016

Neuroplasticity to Enhance Cognitive Skill Learning in Healthy Adults by Peripheral Neurostimulation
DOD: Defense Advanced Research Projects Agency (Role: PI, Michael Deem, Lead PI)
Total Award: $*6,506,877,* Submitted 2016

NCS-FO: Understanding Cognitive Performance from Dynamical Analysis of Neural Activation of Content-Specific and Domain General Pathways (10/16-9/19)
National Science Foundation (Role: Co-PI, Randi Martin, PI)
Total Award: *$757,287,* Submitted 2016

BIGDATA: IA: Big Data Analysis of fMRI Neural Imaging Data to Predict Individual Cognitive Performance
National Science Foundation (Role: Co-PI, Michael Deem, PI)
Total Award: *$2,000,000*, Submitted 2016

Information-mapping the neural correlates of reading and its recovery
National Institutes of Health (Role: PI, Resubmission)
Total Award: *$1,934,131,* Submitted 2016

Recovery from Inhibition Deficits Enhanced by Transcranial Direct Current Stimulation (tDCS): Implications for Language Processing
McKnight Memory and Cognition Disorders Award (Role: co-PI, R. Martin, PI)
Total Award: $300,000, Submitted 2014

Predicting response to writing treatment in individual with acquired dysgraphia
John S. Dunn Foundation Collaborative Research Award Program (Role: PI)
Total Award: $98,000, Submitted 2014

Understanding trial-to-trial variability subsequent to stroke
Kinship Foundation – Searle Scholars Program (Role: PI)
Total Award: $300,000, Submitted 2013

The neural signature of trial-to-trial variability subsequent to stroke
McKnight Memory and Cognition Disorders Award (Role: PI)
Total Award: $300,000, Submitted 2013

Sloan Research Fellowship
Alfred P. Sloan Foundation Neuroscience Fellowships (Role: PI)
Total Award: $50,000, Submitted 2013