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Current Position

Associate Professor	8/12 – present
Assistant Professor	8/05-8/12

School of Behavioral and Brain Sciences
The University of Texas at Dallas, Richardson, TX

Education

Postdoctoral Fellow: Developmental Neuroscience Lab University of Louisville, Louisville, KY Mentor: Dennis Molfese	8/03 – 7/05
Ph.D. in Developmental Psychology Temple University, Philadelphia PA Dissertation Advisor: Kathy Hirsh-Pasek Dissertation: Children use universal and language-specific cues in verb learning	8/99 – 10/03
B.A. in Psychology The Pennsylvania State University, State College, PA	8/94 – 5/98

Publications

Peer-reviewed Articles

- Chiang, H-S, Eroh, J., Spence, J.S., Motes, M.A., **Maguire M.J.**, Krawczyk, D., Brier, M., Hart, J., & Kraut, M.A. (2016). Common and differential electrophysiological mechanisms underlying semantic object memory retrieval probed by features presented in different stimulus types. *International Journal of Psychophysiology*, 106, 77-86.
- Schneider, J.M., Abel, A.D., Ogiela, D., Middleton, A. & **Maguire, M.J.** (2016). Developmental differences in beta and theta power during sentence processing. *Developmental Cognitive Neuroscience*, 19, 19-30.
- Schwarz, A. L., van Kleeck, A., **Maguire, M. J.**, & Abdi, H. (2016). Do action out verbs with dolls and analogical reasoning between two events boost toddlers' verb comprehension. *Journal of Child Language*. DOI: <http://dx.doi.org/10.1017/S0305000916000076>
- Maguire, M.J.**, Abel, A.D., Schneider, J., Fitzhugh, A., McCord, J., & Jeevakumar, V. (2015). Electroencephalography theta differences between object

nouns and action verbs when identifying semantic relations. *Language, Cognition and Neuroscience*, 30(6), 1-11.

Mudar, R. A., Chiang, H.-S., **Maguire, M.J.**, Spence, J. S., Eroh, J., Kraut, M.A. & Hart, J. (2015). Effects of age on inhibitory processing during semantic categorization. *Behavioural Brain Research*, 287, 285-293

Konishi, H. Wilson, F., Golinkoff, R. M., **Maguire, M.J.**, Hirsh-Pasek, K. (2014). Late Japanese bilingual's construal of novel verbs. *Bilingualism: Language and Cognition*. DOI: 10.1017/S136672891400073X

Abel, A.D., **Maguire, M.J.**, Naqvi, F. & Kim, A. (2014). Lexical retrieval of nouns and verbs in a sentence completion task. *Journal of Psycholinguistic Research*. DOI 10.1007/s10936-014-9304-8

Maguire, M.J., Magnon, G. & Fitzhugh, A.E. (2014). Improving data retention in developmental visual EEG research using child-centered eye tracking. *Journal of Neuroscience Methods*, 238, 78-81. DOI: 10.1012/j.j.neumeth.2014.09.2014

Motes, M. A., Gamino, J., Chapman, S.B., Rao, N.K., **Maguire, M.J.**, Brier, M., Kraut, M., Hart, J. (2014). Inhibitory control gains from higher-order cognitive strategy training. *Brain and Cognition*, 84, 44-62.

Maguire, M.J. & Abel, A.D. (2013). What changes in neural oscillations can reveal about developmental cognitive neuroscience: Language development as a case in point. *Developmental Cognitive Neuroscience*, 6, 125-136.

Maguire, M.J., Magnon, G., Ogeila, D.A., Egbert, R., & Sides, L. (2013). The N300 ERP component reveals developmental changes in object and action identification. *Developmental Cognitive Neuroscience*, 5, 1-9.

Hart, J., **Maguire, M.J.**, Motes, M., Mudar, R. A., Chiang, H-S, Womack, K., & Kraut, M. (2013). Semantic memory retrieval circuit: Role of pre-SMA, caudate, and thalamus. *Brain and Language*, 126(1), 89-98.

Chiang, H-S., Motes, M.A., Mudar, R.A., Rao, N.K., Mansinghani, S., Brier, M.R., **Maguire, M. J.**, Kraut, M.A., & Hart, J. Jr. (2013) Semantic processing and response inhibition. *NeuroReport*, 24(16), 889-893.

Hart, J., Calley C., Motes, M., Chiang, H-S., Spence, J., Abdi, H., Anand, R., **Maguire, M.J.**, Estevez, L., Briggs, R., Feeman, T., & Kraut, M. (2013). Threat as a feature in visual semantic object memory. *Human Brain Mapping*, 34, 1946-1955.

Maguire, M. J., McClelland, M. M., Donovan, C. E., Tillman, G. D., & Krawczyk, D. C. (2012). Tracking cognitive stages in analogical reasoning with event-

related potentials. *Journal of Experimental Psychology: Memory, Learning and Cognition*, 38(2), 273-281.

Maguire, M. J., Brumberg, J., Ennis, M., & Shipley, T. F. (2011). Similarities in object and event segmentation: A geometric approach to spatiotemporal path segmentation. *Spatial Cognition and Computation: An Interdisciplinary Journal*, 11, 1-27.

Maguire, M. J., White, J., & Brier, M. R. (2011). How semantic categorization influences inhibitory processing in middle-childhood: An Event Related Potentials study. *Brain and Cognition*, 76, 77-86.

Maguire, M. J., Brier, M. R., & Ferree, T. C. (2010). Differences in EEG theta and alpha responses reveal qualitative differences in processing taxonomic and thematic semantic relationships. *Brain and Language*, 114, 16-25.

Maguire, M. J., Hirsh-Pasek, K., Golinkoff, R. M., Imai, M., Haryu, E., Vengas, S., Okada, H., Pulverman, R., & Sanchez-Davis, B. (2010). A developmental shift from similar to language specific strategies in verb acquisition: A comparison of English, Spanish, and Japanese. *Cognition*, 114, 299-319.

Brier, M. R., Ferree, T. C., **Maguire, M. J.**, Moore, P., Tillman, G. D., Hart, J., & Kraut, M.A. (2010). Frontal theta and alpha power and coherence changes are modulated by semantic complexity in a go/nogo task. *International Journal of Psychophysiology*, 78, 215-224.

Shipley, T. F., **Maguire, M. J.**, & Brumberg, J. (2010). Segmentation of event paths. *Journal of Vision*, 4(8), 562.

Tillman, G. D., Green, T. A., Ferree, T. C., Calley C. S., **Maguire, M. J.**, Briggs, R., Hart, J., Haley, R. W., & Kraut, M. A. (2010). Impaired response inhibition in ill Gulf War veterans. *Journal of Neurological Sciences*, 297, 1-5.

Krawczyk, D. C., McClelland, M. M. Donovan, C. E., Tillman, G. D., & **Maguire, M. J.** (2010). An fMRI investigation of cognitive stages in reasoning by analogy. *Brain Research*, 1342, 63-73.

Maguire, M. J., Brier, M. R., Moore, P. S., Ferree, T. C., Ray, D., Mostofsky, S., Hart, J., Jr. & Kraut, M. A. (2009). The influence of perceptual and semantic categorization on inhibitory processing as measured by the N2-P3 inhibitory responses. *Brain and Cognition*, 71, 196-203.

Maguire, M. J., Hirsh-Pasek, K., Golinkoff, R. M., & Brandone, A. (2008). Focusing on the relation: Fewer exemplars facilitate children's initial verb learning and extension. *Developmental Science*, 11, 628-634.

- Brier, M. R., **Maguire, M. J.**, Tillman, G. D., Hart, J., & Kraut, M. (2008) Event-related potentials in semantic memory retrieval. *Journal of the International Neuroscience Society*, 14, 815-822.
- Hart, J., Anand, R., Zoccoli, S., **Maguire, M.**, Gamino, J, Anand, R., King, R. & Kraut, M. A. (2007). Neural substrates of semantic memory. *Journal of International Neuropsychology Society*, 13, 865-880.
- Key, A., Dove, G., & **Maguire, M. J.** (2005). Linking brainwaves to the brain: An ERP component primer. *Developmental Neuropsychology*, 27, 183-216.
- Golinkoff, R. M., Chung, H. L., Hirsh-Pasek, K., Liu, J., Bertenthal, B. I., Brand, R., **Maguire, M. J.**, & Hennon, E. A. (2002). Young children can extend motion verb labels to point-light displays. *Developmental Psychology*, 38, 604-615.
- Just, M. A., Carpenter, P. A., **Maguire, M.**, Diwadkar, V. A., & McMains, S. (2001). Mental rotation of objects retrieved from memory: An fMRI study of spatial processing. *Journal of Experimental Psychology: General*, 130, 493-504.
- Hirsh-Pasek, K., Hennon, E. A., Golinkoff, R. M., Pence, K., Pulverman, R., Sootsman, J., Pruden, S., & **Maguire, M. J.** (2001). Social attention need not equal social intention: From attention to intention in early word learning. *Brain and Behavioral Sciences*, 24, 1108-1109.

Book Chapters

- Maguire, M. J.**, Ogiela, D., Magnon, G., Delarosa, B., & Sides, L. (2012). Developmental differences in noun-object and verb-action identification: An Event Related Potentials study. In A. Biller, E.Y. Chung, & A. E. Kimball (Eds.), *Proceedings of the Boston University Annual Conference on Language Development* (pp. 328-338). Somerville, MA: Cascadilla Press.
- Maguire, M. J.**, & Dove, G. O. (2008). Speaking of events: What event language can tell us about event representations and their development. In T. F. Shipley & J. Zacks (Eds.), *Understanding events: From perception to action* (pp. 193-220). New York: Oxford University Press.
- Shipley, T. F. & **Maguire, M. J.** (2008). Geometric information for event segmentation. In T. F. Shipley & J. Zacks (Eds.), *Understanding events: From perception to action* (pp. 415-435). New York: Oxford University Press.
- Maguire, M. J.** (2007). Getting more action: Fewer exemplars facilitate verb extensions. In H. Chan, H. Jacob, & E. Kipia (Eds.), *Proceedings of the Boston University Annual Conference on Language Development* (pp. 418-429). Somerville, MA: Cascadilla Press.
- Brandone, A., Golinkoff, R. M., Pulverman, R., **Maguire, M. J.**, Hirsh-Pasek, K., & Pruden, S. M. (2007). Speaking for the wordless: Methods for studying cognitive linguistic constructs in infants. In M. Gonzalez-Marquez, I.

Mittelberg, S. Coulson, & M. Spivery (Eds.), *Methods in cognitive linguistics* (pp. 345-366). Amsterdam: John Benjamins.

Maguire, M. J., Hirsh-Pasek, K., & Golinkoff, R. M. (2006). A unified theory of verb learning: Putting verbs in context. In K. Hirsh-Pasek & R. M. Golinkoff (Eds.), *Action meets word: How children learn verbs* (pp.364-391). New York: Oxford University Press.

Molfese, D. L. **Maguire, M. J.**, Molfese, V. J., Pratt, N., Ratajczak, E. D., Fentress, L. F., & Molfese, P. J. (2005). Brain and language: Phonological, lexical, syntactic and semantic disorders in children. In K. Brown (Ed.), *Encyclopedia of Language and Linguistics, 2nd Edition* (pp. 535-545). Oxford, England: Elsevier Ltd.

Pruden, S., Hirsh-Pasek, K., **Maguire, M. J.**, & Meyer, M. (2005). Foundations of verb learning: Infants form categories of path and manner in motion events. In A. Brugos, L. Micciulla & C.E. Smith (Eds.), *Proceedings of the Boston University Annual Conference on Language Development* (pp. 476-488). Somerville, MA: Cascadilla Press.

Molfese, D. L., Fonaryova-Key, A., **Maguire, M. J.**, Dove, G., & Molfese, V. J. (2005). Event-related evoked potentials (ERPs) in speech perception. In D. Pisoni (Ed.), *Handbook of speech perception* (pp.99-121). Oxford: Blackwell Publishers.

Hirsh-Pasek, K., Golinkoff, R. M., Hennon, E. A., & **Maguire, M. J.** (2004). Hybrid theories at the frontier of developmental psychology: The emergentist coalition model of word learning as a case in point. In G. Hall & S. Waxman (Eds.), *Weaving a lexicon* (pp. 173-204). Cambridge, MA: MIT Press

Maguire, M. J., Hennon, E. A., Hirsh-Pasek, K., Golinkoff, R. M., Slutzky, C. B., & Sootsman, J. (2002). Mapping words to actions and events: How do 18-month-olds learn a verb? In B. Skarabela, S. Fish, & A. H. J. Do (Eds.), *Proceedings of the Boston University Annual Conference on Language Development* (pp. 371-382). Somerville, MA: Cascadilla Press.

Manuscripts Submitted

Abel, A.D., Schneider, J.M., & **Maguire, M.J.** (submitted March 9, 2016 reviews: response resubmit in August 2016; resubmitted October 2016). N400 Response Indexes word learning from linguistic context in children. *Language, Learning and Development*.

Middleton, A.E., Schneider, J. M & **Maguire, M. J.**, (submitted September 2015, reviews: response resubmit in August 2016; resubmitted Nov 17, 2016). Developmental differences in beta engagement during single word processing. *Language Learning and Development*.

Nguyen, L. T., Chiang, H-S., Schneider, J. M., **Maguire, M.J.**, Kraut, M. A., Hart, J., & Mudar, R. A. (submitted Jan 10 2017). Alpha power changes in amnesic mild cognitive impairment in Semantic Go/Nogo tasks. *NeuroImage: Clinical*.

Pourchoť, H. D., Warner-Czyz, A., Geers, A., Maguire, M. (under review). Contributing factors to expressive language development in infants and toddlers with hearing loss. *Cochlear Implants International Journal*.

Manuscripts in Preparation

Schneider, J. M., **Maguire, M.J.**, & Abel, A.D. (submitted June 8, 2016, rejected. Revising). Oscillatory dynamics reveal the role of prediction and integration during noun and verb learning. *Neuropsychologia*

Schneider, J.M. & **Maguire, M.J.** (in preparation). Developmental differences in neural oscillations during processing open and closed class words. *Development Cognitive Neuroscience*.

Schneider, J.M., Ralph, Y.K., Sides, L., Middleton, A. E., & **Maguire, M.J.** (Rejected and revising). Changes in theta are sensitive to task-related processing differences between high and low imageable nouns, verbs, and adjectives. *PloSOne*.

Motes, M. A., Spence, J. S., Anand, R., Brier, M. R., Eroh, J. **Maguire, M.J.**, Tillman, G. D., Kraut, M., & Hart, J. (in preparation). A cross-sectional study of Go/No-Go discriminate functions across the lifespan.

Maguire, M.J., Schneider, J.M., Middleton, A., Ackerman, R., Ralph, Y, Lopez, M., & Abel, A.D. (in progress). The influence of maternal education on word learning from written context in grade school. *Journal of Experimental Child Psychology*.

Presentations

Papers.

Abel, A. D. & Maguire, M. J. (2014, November). *How the Brain Learns Words: An EEG Study of Online Word Learning in School-Age Children*. Paper presented at the annual conference of the American Speech-language Hearing Association. Orlando, FL

Maguire, M. J., Ogiela, D., Magnon, G., Delarosa, B., & Sides, L. (November 2011). Developmental differences in noun-object and verb-action identification: An Event Related Potentials study. *Boston University Conference on Language Development*. Boston, MA.

Ogiela, D., Egbert, R., Jeevakumar, V., & Maguire, M. J. (November 2011). Children's ERP responses to noun phrase and verb phrases. Paper

presented at the American Speech Hearing-Language Association annual conference. San Diego, CA.

Brier, M. R., Maguire, M. J., Ferree, T. C., Gleman, Y., Patel, R. H., Hart, J., & Krat, M. A. (2009, October). *Arithmetic fact recall and number comparison as revealed by event-related potentials*. Paper presented at the annual conference of the Society for Neuroscience, Chicago, IL.

Maguire, M. J., White, J., Brier, M., Maio, M., Anand, R., Reagor, M. K., & Dove, G. (2009, April) *An ERP study of novel verb processing in young children*. Paper presented at the Society for Research in Child Development, Denver, CO.

Maguire, M. J., Hirsh-Pasek, K., Golinkoff, R. M., Mutsumi, I., Vangas, S., & Pulverman, R. (2009, April). *Language specific strategies to verb acquisition: A comparison of English, Japanese and Spanish*. Paper presented at the Society for Research in Child Development, Denver, CO.

Pulverman, R., Maguire, M. J., Hirsh-Pasek, K., Golinkoff, R. M. (2006, June). *On the beaten path: Multiple cues converge to make verb learning easier in Spanish*. Paper presented at the Biannual International Society for Infancy Research, Kyoto, Japan

Maguire, M. J. (2006, November). *Getting more action: Fewer exemplars facilitate verb extensions*. Paper presented at The Boston University Conference on Language Development, Boston, MA.

Hirsh-Pasek, K., Maguire, M.J., & Golinkoff, R. (2005, April). *Facilitating verb learning: A window onto what makes verb learning difficult*. Paper for the biennial conference of the Society for Research in Child Development, Atlanta, GA.

Maguire, M. J., Hirsh-Pasek, K., & Pruden, S. (2003, April). *The way you do that thing you do: Attention to path and manner in action words*. Paper presented at the biannual conference of the Society for Research and Child Development, Tampa, FL.

Pruden, S., Hirsh-Pasek, K., Maguire, M. J., & Meyer, M. (2003, November). *Foundations of verb learning: Infants form categories of path and manner in motion events*. Paper presented at Boston University Language Conference, Boston, MA.

Maguire, M. J., Hennon, E. A., Hirsh-Pasek, K., Golinkoff, R. M., Slutzky, C. B., & Sootsman, J. (2001, November). *Mapping words to actions and events: How do 18-month-olds learn a verb?* Paper presented at the annual conference of the Boston University Conference on Language Development, Boston, MA.

Posters.

- Zeller, A., Abel, A.D., Schneider, J., Sharp, B., & Maguire, M.J.. (2015, October) *Surrounding linguistic context influences the role of neural oscillations underlying word learning*. Society for the Neurobiology of Language, Chicago, IL.
- Ralph, Y., Schneider, J.M., & Maguire, M.J. (2015, October) *The interaction of imageability and word class during semantic retrieval*. Society for the Neurobiology of Language, Chicago, IL.
- Schneider, J.M., Abel, A.D. & Maguire, M.J. (2015, October) *Developmental differences in neural oscillations supporting online sentence processing*. Society for the Neurobiology of Language, Chicago, IL.
- Middleton, A.E., Vesper, F., Schneider, J.M. & Maguire, M.J. (2015, October) *Developmental differences in the modulation of theta during semantic inhibition tasks*. Society for the Study of Human Development, Austin, TX
- Pavuluri, A., Middleton, A.E., Schneider, J. M., & Maguire, M.J. (2015, October). *Theta oscillations for retrieving semantically related versus unrelated information in children*. Society for the Study of Human Development, Austin TX
- Maguire, M.J., & Abel, A. D. (2014, August) *Theta and beta changes related to learning new words from linguistic context*. Annual meeting of the Society for Neurobiology of Language, Amsterdam, NL.
- Schneider, J. M., Maguire, M. J. (2014, August). *Neural oscillations provide insight into developmental differences between children and adults during auditory sentence processing*. Annual meeting of the Society for Neurobiology of Language, Amsterdam, NL.
- Maguire, M.J. & Abel, A. D. (2013, November). *N400 evidence of word learning from context in adolescent children*. Society for the Neurobiology of Language, San Diego, CA November, 2013.
- Schneider, J. M., Abel, A.D., McCord, J. & Maguire, M. J (2013, November). *Changes in neural oscillations during naturally-paced sentence processing*. Society for the Neurobiology of Language, San Diego, CA November, 2013.
- Naqvi, F., Abel, A., Kim, A., & Maguire, M.J. (2013, November). *Differences between nouns and verbs in an elicited-response task*. American Speech Hearing-Language Association. Chicago, IL. November 2013.

- Kim, A. Abel, A., Naqvi, F., & Maguire, M.J. (2013, November). Word frequency and semantic retrieval in nouns and verbs. American Speech Hearing-Language Association. Chicago, IL. November 2013.
- Fitzhugh, A., Magnon, G., Abel, A. & Maguire, M.J. (2013, November). Improving developmental EEG with eye-tracking. American Speech Hearing-Language Association. Chicago, IL. November 2013.
- Konishi, H., Wilson, F., Golinkoff, R.M., Maguire, M.J., & Hirsh-Pasek, K. (2013, April). Japanese-English bilingual children's' construal of novel verbs. Poster for the biannual Society for Research in Children Development Conference. Seattle, WA.
- Maguire, M.J., Ogeila, D., Magnon, G. & Scheinder, J. (2013, April). Neuronal correlates of grammatical processing in SLI and typical children provides insights about working memory in language comprehension. Poster for the biannual Society for Research in Children Development Conference. Seattle, WA.
- Schenider, J., Jackson, M., Ogiela, D., Magnon, G., & Maguire, M.J. (2013, April). Time frequency analysis of the time-locked EEG signal reveals left hemisphere theta activity during semantic retrieval in children. Poster for the biannual Society for Research in Children Development Conference. Seattle, WA.
- Ogiela, D., Maguire, M. J., & Magnon, G. (2012, November). *Grammaticality judgments of sentences containing morphological errors in SLI*. The annual conference of the American Speech-language Hearing Association. Atlanta, GA.
- Delarosa, B., Maguire, M.J., Sides, L. & Magnon, G. (2011, November). *An EEG time frequency analysis of noun-object and verb-action identification*. Poster presented at the Neurobiology of Language Society Annual Conference, Annapolis, MD.
- Delarosa, B. & Maguire, M.J. (2011, November). *Theta and Alpha Changes during a Word-Picture Matching Task*. Poster presented at the Society for Neuroscience annual conference, Washington DC.
- Maguire, M. J., Brier, M., & White, J. J. (2011, April). *The influence of abstract categorization on inhibitory processes in middle childhood: An event related potentials study*. Poster presented at the biannual conference of the Society for Research in Child Development, Montreal, Canada.
- Salinas, M., Jantz, T., Rao, N., Maguire, M. J. Brier, M., Hart, J., Chapman, S., Gamino, J., & Motes, M. (2011, April). *The effects of strategic reasoning training on response inhibition*. Poster presented at the annual conference of the Cognitive Neuroscience Society, San Francisco, CA.

Anand, R., Chiang, H-S., Kraut, M., Bartz, E., Maguire, M. J., & Hart, J. (2011, April). *Effects of semantics on inhibitory processing in aging*. Poster presented at the annual conference of the Cognitive Neuroscience Society, San Francisco, CA.

Rao, N., Jantz, T., Salinas, M., Brier, M. Maguire, M. J., Hart, J., Chapman, S., Gamino, J., & Motes, M. (2011, April). *The role of semantic processing in response inhibition among adolescents with ADHD*. Poster presented at the annual conference of the Cognitive Neuroscience Society, San Francisco, CA.

Maguire, M. J. Ogiela, D., & Egbert, R. (2010, November). *A picture is worth 1000 words, sometimes: ERP differences in nouns and verbs during a picture identification task*. Poster presented at the annual conference of the Society of the Neurobiology of Language, San Diego, CA.

Ogeila, D., Maguire, M. J., & Dollaghan, C. (2010, November). *ERP differences in Noun Phrase and Verb phrase processing*. Poster presented at the annual conference of the Society of the Neurobiology of Language, San Diego, CA.

Ogeila, D., Maguire, M. J., & Dollaghan, C. (2010, May). *Methodological considerations for the study of morphosyntactic processing in children with specific language impairments using event-related potentials: Stimulus development and adult pilot study results*. Poster presented at the annual conference for the Society for Research in Child Language Development.

Brier, M. R., Maguire, M. J., Jajal, N.J., Ferree, T.C., Hart, J., & Kraut, M. (2010, April). *The influence of left to right number representations on number comparison*. Poster presented at the annual conference of the Cognitive Neuroscience Society, Montreal, Canada.

Kraut, M., Brier, M., Maguire, M. J., Ferree, T., Hart, J. (2010, April). *Frontal theta and alpha power and coherence changes are modulated by semantic complexity in go/nogo tasks*. Poster presented at the annual conference of the Cognitive Neuroscience Society, Montreal, Canada.

Maguire, M. J., White, J., & Brier, M. R. (2010, April). *The interaction of inhibition and conceptual-semantic processing in children as measured by the N2-P3 response during three Go-NoGo tasks*. Poster presented at the annual conference of the Cognitive Neuroscience Society, Montreal, Canada.

Tillman, G. D., Green, T. A., Ferree, T. C., Calley, C.S., Maguire, M.J., Hart, J., Haley, R.W., & Kraut, M. (2010, April). *Impaired response inhibition in ill Gulf War Veterans*. Poster presented at the annual conference of the Cognitive Neuroscience Society, Montreal, Canada.

- White, J., Brier, M. R., Egbert, R., Motes, M. A., Hart, J. Jr., Kraut, M. A., & Maguire, M. J. (2010, April). *Electrophysiological correlates of individual differences in mental arithmetic and number comparisons observed in middle school children*. Poster presented at the annual conference of the Cognitive Neuroscience Society, Montreal, Canada.
- Lugo, M., Brier, M. R., Maguire, M. J., & Hart, J. (2010, April) *The number 0 is processed differently in mental multiplication: An ERP study*. Center for Brain Health Reprogramming the Brain Symposium, Dallas, TX
- Jajal, N. J., Brier, M. R., Maguire, M. J., & Hart, J. (2010, April). *Eye-tracking provides insight into how arithmetic order of operations are processed*. Center for Brain Health Reprogramming the Brain Symposium, Dallas, TX
- Patel, R. H., Brier, M. R., Maguire, M. J., Kraut, M. A., & Hart, J. (2010, April). *BA6 is preferentially involved in semantic retrieval judgments: An ERP study*. Center for Brain Health Reprogramming the Brain Symposium, Dallas, TX
- Anand, R., Motes, M. A., Maguire, M. J., Moore, P. S., Chapman, S. B., & Hart, J. (2009, October). *Neural basis of abstracted meaning*. Poster presented at the annual conference of the Society of the Neurobiology of Language, Chicago, IL.
- Ferree, T., Brier, M., Maguire, M. J., & Spence, J. (2009, June). *Space-Time-Frequency analysis of EEG data in semantic inhibition: Control of false positives in single subjects*. Poster presented at the annual Conference on Human Brain Mapping. San Francisco, CA.
- Maguire, M. J., Reagor, M. K., White, J., Brier, M. R., Elliott, S. M., Elliott, M. R., & Maio, M. (2009, April). *An ERP study of the neurological processes underlying thematic and categorical relationships in young children*. Poster presented at the annual conference of the Society for Research in Child Development, Denver, CO.
- White, J., Maguire, M. J., Miao, M., Brier, M., & Moore, P. (2009, April) *An ERP study of ultra-rapid superordinate categorization in children and adults*. Poster presented at biannual conference for the Society for Research in Child Development, Denver, CO.
- Brier, M. R., Maguire, M. J. Moore, P. S., Gelman, Y., Kraut, M. A., & Hart, J. (2008, November). *N2 amplitude is modulated by semantic complexity in an inhibition task*. Poster presented at the annual conference for the Society for Neuroscience, Washington, D.C.
- Krawczyk, D., McClelland, M. M., Donovan, C., Tillman, G. & Maguire, M. J. (2008, November). *Neural basis of reasoning by analogy*. Poster presented at the annual conference for the Society for Neuroscience, Washington, D.C.

- Anand, R., Maguire, M. J., Chapman, S. B., & Hart, J. (2008, April). *Seeing the forest and the tress: Exploring the neurological underpinnings of gist and detail processing*. Poster presented at the annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Brier, M., Ferree, T., Maguire, M. J., Tillman, G., Xavier, P., Hart, J., & Kraut, M. (2008, April). *Neural oscillations in semantic object retrieval*. Poster presented at the annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Maguire, M. J., Reagor, M. K., Anand, R., Sandgren, S., & Elliott, M. (2008, April). *Grammaticality influences the N400 to novel verbs*. Poster presented at the annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Reagor, M. K. & Maguire, M. J. (2008, April). *Electrophysiological measures for remembered, ignored and novel words in a strategic learning task*. Poster presented at the annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Anand, R., Maguire, M. J., Chapman, S. B., & Hart, J. (2008, February). *Gist-based and detail-based processing of information: Effects of normal cognitive aging*. Poster presented at the Annual conference of the International Neuroscience Society, Waikoloa, Hawaii.
- Brier, M., Maguire, M. J., Tillman, G., Kraut, M., & Hart, J. (2008, February). *Neurophysiological marker in semantic object retrieval*. Poster presented at the Annual conference of the International Neuroscience Society, Waikoloa, Hawaii.
- Maguire, M. J., Reagor, M. K., Tillman, G., Calley, C., Gamino, J., Brier, M., & Hanten, G. (2008, February). *The neurological underpinnings of individual differences in learning: Relating ERP responses to self-reported learning strategies*. Poster presented at the Annual conference of the International Neuroscience Society, Waikoloa, Hawaii.
- Maguire, M.J., Sanchez-Davis, B., & Vanegas, S. (October 2007). *In a manner of speaking: Verb learning patterns in English, Spanish and Japanese Preschoolers*. Poster presented at the Cognitive Development Society Conference. Sante Fe, N.M.
- Vanegas, S. & Maguire, M.J. (October 2007). *Theory of mind, inhibition and language: One process or many?* Poster presented at the Cognitive Development Society Conference. Sante Fe, N.M.

- Maguire, M.J., Hirsh-Pasek, K., Golinkoff, R.M. (2006, June). *Less is more in verb learning: Fewer exemplars facilitate novel verb*. The Biannual International Society for Infancy Research, Kyoto, Japan
- Maguire, M. J. & Dove, G. O. (2005, February). *An ERP study of imageability and syntactic processing*. A poster for the annual conference of the International Neuropsychological Society, St. Louis, MO.
- Maguire, M. J. & Dove, G. O. (2005, April). *Imageability and grammatical class in noun and verb learning: An ERP study*. Poster for the biennial conference of the Society for Research in Child Development, Atlanta, GA.
- Maguire, M.J. & Dove, G.O. (2005, October). *The neurological correlates of grammatical class and imageability development*. Poster presented at the annual conference of the Cognitive Development Society, San Diego, CA.
- Maguire, M. J., Pruden, S. M., Hirsh-Pasek, K., Meyer, M. & Hansell, N. (2004, April). *Two-year-olds use grammar to learn novel verbs*. Poster presented at the biennial conference of the International Society on Infant Studies, Chicago, IL.
- Maguire, M. J., Pruden, S.M., Hirsh-Pasek, K., Hansell, N. & Meyer, M. (2004, April). *More isn't always better: Three-year-olds master intransitive verbs*. Poster presented at the biennial conference of the International Society on Infant Studies, Chicago, IL.
- Pruden, S. M., Maguire, M. J., Meyer, M. A., Hansell, N., & Hirsh-Pasek, K. (2004, April). *Categorization of path and manner in infancy: Building a conceptual foundation for verb learning*. Poster presented at the biennial conference of the International Society on Infant Studies, Chicago, IL.
- Shipley, T. F., Maguire, M.J., & Brumberg, J. (2004, May). *Segmentation of objects and event paths*. Poster presented at the annual Society for Vision Sciences Conference, Sarasota, FL.
- Mosley, M. J., Molfese, D., Maguire, M. J., Dove, G. O., Fonaryova-Key, A, & Hacet, D. (2004, November). *ERPs with young children using cochlear implants*. Poster presented at the annual American Speech Language Hearing Association Conference, Philadelphia, PA.
- Maguire, M. J., Meyers, M., & Salkind, S. (2003, April). *Keeping it simple: Mapping words onto actions*. Poster presented at the biannual conference of the Society for Research in Child Development, Tampa, FL.
- Shipley, T. S., Maguire, M. J., & Brumberg, J. (2003, November). *Top down effects on search for biological motion*. Poster presented at the 44th annual conference of the Psychonomics Society, Vancouver, BC.

Kovacs, S. L., Maguire, M. J., & Newcombe, N. S. (2002, April). *Young infants' ability to use "what" information when the salience of "where" information is reduced*. Poster presented at the biannual conference of the International Conference on Infant Studies, Toronto, Canada.

Salkind, S. J., Sootsman, J. L., Golinkoff, R. M., Hirsh-Pasek, K., & Maguire, M. J. (2002, April). *Lights, camera, action! Infants and toddlers create action categories*. Poster presented at the biannual conference of the International Conference on Infant Studies, Toronto, Canada.

Maguire, M.J., Hennon, E.A., Slutzky, C.B., & Golinkoff, R.M. (2001, April) *Infants' development of lexical categories: Moving from perceptual to social cues*. Poster presented at the biannual conference of the Society for Research in Child Development, Minneapolis, MN.

Hennon, E. A., Hirsh-Pasek, K., Golinkoff, R. M., Rocroi, C., Arnold, K., Maguire, M. J., Baker, S. & Driscoll, K. (2000, July). *From proper nouns to categories: Infants learn how words work*. Poster presented at the biannual conference of the International Conference on Infant Studies, London, England.

Presentations Submitted

Invited Talks.

Maguire, M.J. (2012, April). *Overcoming semantic and syntactic difficulties to master verbs*. University of Texas at Arlington.

Maguire, M.J. (2011, March). *Verb Acquisition: Behavioral, Electrophysiological and Cross-Linguistic Evidence of Why it is Hard to Do*. University of Kansas.

Maguire, M.J. (2009, April). *Using EEG to Study the Development of Semantic Knowledge*. Scientists Brown Bag Lecture Series. Center for BrainHealth, University of Texas at Dallas.

Maguire, M.J. (2008, March). *A developmental shift from universal to language-specific strategies for verb acquisition: A comparison of English, Spanish, and Japanese*. Paper presented at the University of Chicago. Chicago, IL.

Maguire, M.J. (2008, February). *Attention Deficit Disorder and the Brain*. Owners Guide to the Brain Lecture Series. The Center for BrainHealth University of Texas at Dallas.

Golinkoff, R. M., Hirsh-Pasek, K., Maguire, M. J., Pulverman, R., & Pruden, S. (2005, August). *A rose is a rose but a scene is not a scene: Language encodes events differently*. Paper presented at Leigh University.

Grant Support

Under Review.

NIH/NICHHD, R21

Title "Auditory and visual word learning from context: Developmental changes and individual differences in brain and behavior".

Principal Investigator: Mandy J. Maguire

Amount: \$275,000

Dates: 12/1/16-11/30/18

Funded.

Current Research

NSF 1551770

Title: "How poverty impacts brain and language development: Understanding the vocabulary gap"

Funding Agency: NSF

Amount: \$515,000 in direct costs over 3 years

Dates: 4/1/2016-3/31/2019

Completed Research

1R03HD064629-01

Funding Agency: NIH/NICHHD

Title: "Improving developmental visual EEG with eye tracking"

Principal Investigator(s): Mandy J. Maguire

Amount: \$50,000 over 1 year

Major goals: To effectively link eye tracking and EEG data collection in real-time to improve EEG data collection in children.

Dates: 9/1/2010 – 8/31/2011

Title: "Establishing Neurological Markers of Inhibition for ADHD Diagnosis and Treatment Assessment"

Principle Investor: Mandy J. Maguire

Funding Agency: UT Southwestern's Department of Clinical Sciences North and Central Texas Clinical and Translational Science Initiative

Amount: \$24,000 over 1 year

Major goals: To use Event Related Potentials (ERPs) to establish neurological makers of inhibitory processes for normally developing adolescents and those with ADHD

Dates: 5/30/08-5/30/09

Title: "Syntactic event related potentials in children with specific language impairment"

Principle Investor: Diane Ogiela

Role: Mentor

Funding Agency: UT Southwestern's Department of Clinical Sciences North and Central Texas Clinical and Translational Science Initiative

Amount: \$30,560 over 1 year

Major goals: To uncover biological correlates of language processing deficits in children with specific language impairment, specifically comparing noun phrase and verb phrase processing differences.

Dates: 3/01/00-2/28/09

Title: "Center for Advanced ADHD Research, Treatment and Education (CAARTE)"

Principal Investigators: Collaboration between UTSW, UTD and Shelton School

Funding Agency: Sparrow Foundation

Amount: \$3 million over 3 years

Major Goals: This project aims to (1) identify children in early phases of ADHD to develop preschool interventions with parents and adults to reduce or eliminate the need for medication, (2) compare the effectiveness of two non-medical interventions with Routine Clinical Practices on ADHD behaviors, and (3) measure changes in brain activation using ERP and fMRI longitudinally and in relation to specific interventions in children with ADHD compared to age/sex-matched controls.

Dates: January 1, 2007 – December 31, 2010

Title: The Gulf War Project: EEG and ERP Core

Principle Investigators: John Hart, Jr.

Role: Co-investigator

Funding Agency: Department of Veterans Affairs

Amount: \$5 million over 5 years

Major Goals: This project aims to study the neurological ramifications of Gulf War Syndrome both in terms of structure (white matter density, conductivity, etc.) and processing (BOLD response, neurophysiology, etc). The goal of the EEG core is to investigate the neurophysiological processes in patients suffering from Gulf War Syndrome. My particular part is in designing and overseeing projects implementing Event Related Potentials as the primary methodology.

Dates: September 2007 – September 2011

Title: "Word Retrieval Project"

Principle Investigators: John Hart, Jr. & Mandy J. Maguire

Sponsor: UTSW/Department of Veteran Affairs

Amount: \$221,992 for 1 year

Major Goals: This project specifically using fMRI and EEG to investigate word finding difficulties associated with Gulf War Syndrome.

Dates: 2008-2009.

Unfunded.

Title: "Identifying the neural oscillations underlying successful word learning from linguistic context in children and individual differences in this process"

Funding Agency: NIH, NICHD

Amount: \$479,041 over 3 years

Proposed dates: 6/1/2015-5/31/2017

Submitted: 10/15/2014

Title: "R/R&D of Neuroplastic games for Foreign Language Learning"

Funding Agency: DARPA SBIR Phase II

Amount: \$325,000 total to UTD over 2 years

Proposed dates: 4/1/2014-3/31/2016

Submitted: 12/15/2013

Title: "The electrophysiological correlates of noun and verb semantic development"

Funding Agency: NIH/NICHD

Amount: \$300,000 over 3 years (R15)

Proposed dates: 7/1/2012-6/30/2015

Submitted: 6/15/2011

Title: "Brain Oscillation Patterns of Syntactic Processing in Specific Language Impairment"

Funding Agency: NIH/NICHD

Amount: \$275,000 over 2 years (R21)

Proposed dates: 12/1/2012-11/30/2014

Title: "The electrophysiological correlates of verb learning"

Funding Agency: NIH/NICHD

Principal Investigator: Mandy J. Maguire

Amount requested: \$790,000 over 4 years (R01)

Major goals: Use Event Related Potentials to study the correlates of the semantic and syntactic obstacles to verb learning in typically developing children

Proposed dates: 7/1/2011-6/31/2015

Submitted: 2/5/2011; was resubmitted with a smaller scope in October 2011 as an R15

Title: "Real time bi-directional communication between EEG and eye tracking"

Principle Investigator (s): Mandy J. Maguire

Funding Agency: McKnight Endowment's Technological Innovations in Neuroscience Award

Amount: \$200,000 over 2 years

Submitted: December 1, 2009; was later funded as an NICHD RO3

Title: "The neuronal underpinnings of nouns and verbs in children: From concept to phrase structure."

Principal Investigator(s): Mandy J. Maguire

Funding Agency: NSF
Amount: \$524,000 over 3 years
Submitted: January 14, 2010

Professional Awards and Recognition

University of Texas Regents's Outstanding Teaching Award Nominee

April 2015

American Speech-Language-Hearing Association's Grant Review-Reviewer Training Workshop, covered travel and conference fees.

Received: July 2014

University of Texas at Dallas Distinguished Teacher in Diversity and Multicultural Education

Received: May 2011

American Speech-Language-Hearing Association's Lessons for Success Award, covered travel and conference fees.

Received: February 2008

The Sandy Friel-Patti Research in Child Language International Travel Award from the Texas Speech-language and Hearing Association

Received: March 26, 2006

Early Career Research Travel Award from The Aprica Foundation of Japan in conjunction with the International Society for Infancy Research

Received: June 22, 2006

Awards to students

UTD Undergraduate Research Scholarship Awards - provides funds to complete a year-long undergraduate research project

Year: Student (major), Project Title

2014: Adriana Ribeiro (speech pathology and audiology) "How differences in methodological design influence the outcomes of word learning from linguistic context tasks"

2013: Jagger McCord (*computer science*) "Mining behavioral data and applying new data analysis techniques to existing EEG data"

2011: Lauren Houston (*neuroscience*) "A Time frequency analysis of specific language impairment"

2009: Emily Vutam (*neuroscience*) "Gender differences in semantic inhibition: Behavioral and Electrophysiological data"

2008: Joshua White (*neuroscience*) "An ERP study of ultra-rapid superordinate categorization in children and adult"

Buhrmester Undergraduate Research Award

2013: Angela Kim (*speech pathology and audiology*) and Fizza Naqvi (*neuroscience*)

Teaching Experience

Classes.

Cognitive Development (graduate)

University of Texas at Dallas, Spring '16

Estimated class size: 28

Developmental Cognitive Neuroscience (undergraduate)

University of Texas, Dallas, Spring '13 and '14

Class size: 10-15 students

Language Development (graduate)

University of Louisville, Belknap Campus, Summer '04

Estimated class size: 15 students

University of Texas, Dallas, Spring '06 – Fall '13

Estimated class size: 20-30 students

Language Development (undergraduate)

University of Texas, Dallas, Spring '06 – Fall '16

Estimated class size: 130-180 students

The Neurological Basis of Language Development (graduate)

University of Texas, Dallas, Callier Center Campus, Fall '05, '06

Class size: 8 students

Lifespan Development

University of Louisville, Belknap Campus, Spring '04

Estimated class size: 200 students

Developmental Psychology

Temple University, Main Campus, Fall '99

Temple University, Ambler Campus, Fall '00

Temple University, Center City Campus, Summer, '00, '02, '03

Estimated class sizes: 30-40 students

Research Methods in Developmental Psychology

Temple University Main Campus, Spring '02

Temple University Ambler Campus, Fall '01, (co-instructor – Stacie Kovacs)

Estimated class sizes: 20-30 students

Graduate Students Advised.

Dissertations

Lynda Sides

Anna Fitzhugh

Julie Schneider

Master's Theses
Sandra Vanagas

Defense Committees.

Dissertations:

Jacquelyn Gamino, Kristi Buckley, Raska Anand, Ariela Jokel, Carol Trautman, Lei Xuan, Katherine Sheppard, Amy Louise Schwarz, Blair Miller, Sarah Yu, Hsueg-Sheng Chiang, Katharine Fitzharris (AuD), Melissa Sherman, Jana Mueller, Hannah Pourchot

Master's Theses: Elva Alicia Granado

Service

Ad hoc Reviewer.

Brain and Cognition
Brain and Language
Cognitive and Behavioral Neurology
Cognitive Psychology
Cognitive Science
Child Development
Cognition
Developmental Neuropsychology
Developmental Psychology
Journal of Child Language
Journal of Speech, Language and Hearing Research
Journal of Speech-Language Pathology
Child Development Perspectives
PlosOne
Psychological Science
International Society for Infancy Research Biannual Conference
Neurobiology of Language Conference, Summer 2009 & 2011
SRCD Conference Reviewer, Fall 2012

University and School Committees

- Spring 2002: Graduate Student Member of Temple University's Developmental Psychology Ph.D. admissions board.
- Fall 2006-2007, Fall 2012-present: Member of UTD's Committee for the Support of Diversity and Equity
 - Subcommittee on Data Collection and Reporting
- Fall 2006-Fall 2015: Member of the Callier Center Committee for Continued Improvement in Research.
 - Callier Postdoctoral Fellowship Hiring Committee (Chair).
- 2009-2010: BBS Colloquium Series Planner (co-chair)
- Fall 2012- Fall 2016t: BBS Excellence in Teaching Committee
- Fall 2012 – present: Communication Sciences and Disorders PhD program
 - Recruitment Committee (chair)
 - Admissions Committee

- Committee for Mid-probationary Reviews
 - Sven Kroener, Fall 2012
 - Chandramallika Basak, Fall 2013
 - Raúl Rojas, Fall 2014
- Tenure Review Committees
 - Robert Ackerman, Fall 2016
- Faculty Search Committees
 - Psychological Sciences, Fall 2013, Fall 2014
- BBS Academic Advisory Council Member 2015-2016

Community Service

- Fall 2000: Organized Temple University's Developmental Psychology graduate student orientation.
- Summer 2001: Held training sessions in cognitive development for volunteers at the Franklin Institute Science Museum, Philadelphia PA.
- Fall 2001: Organized Temple University's Developmental Psychology colloquium series.
- May 2004: Judge for undergraduate and graduate poster presentations, Kentucky Psychological Association.
- February 2008: Science fair judge, Vine High School, Plano, TX.
- March 2008: Presented "Using EEG as a tool to studying cognitive development" in the "Opportunities in Behavioral and Brain Sciences" series to promote diverse studies in high school students with a computer programming/science background
- November 2008: Spoke at Ennis Rotary about applications of brain research in various treatments.
- November 2008: Gave lab tour for potential undergraduates in BBS.
- March 2009: Gave Callier Preschool Staff Training session on early brain development and cognition.
- April 2010: Judge for poster session awards for the Reprogramming the Brain Symposium
- March 2010: Gave a talk for the Center for Children and Families Lecture Series
- April 2012, 2014: Judge for undergraduate student research fair at UTD.
- March 2013: Volunteer interviewer on UTD's Molding Doctors Mock Interview Day.
- July 2012, 2013, 2014: Presented to junior high and high school aged girls at the Women in Science camp for the Girl Scouts of North Texas at UTD to promote women in STEM careers
- June 2014: Presented at the Eureka Summer Camp for girls who are members of Girls, Inc, an after school and summer program for girls in poverty. The Eureka camp teaches underprivileged girls about career opportunities in STEM areas.

Professional Affiliations.

Society for Research in Child Development
Neurobiology of Language