

CURRICULUM VITAE

Julie A. Fiez
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POST-SECONDARY EDUCATIONAL HISTORY

Emory University, Atlanta, GA. B.S. 1987 Biology
Washington University, St. Louis, MO Ph.D. 1992 Neuroscience

PROFESSIONAL EMPLOYMENT AND EXPERIENCE

2008- Professor, Dept. of Communication Sciences & Disorders, Univ. of Pittsburgh
2008- Senior Scientist, Learning Research & Development Center, Univ. of Pittsburgh
2006- Professor, Dept. of Psychology, Univ. of Pittsburgh
2006- Professor, Dept. of Neuroscience, Univ. of Pittsburgh
2006- Professor, Center for the Neural Basis of Cognition, Univ. of Pittsburgh
2005- Adjunct Faculty, Department of Psychology, Carnegie Mellon Univ.
2003-2006 Associate Prof., Dept. of Psychology, Univ. of Pittsburgh
2003-2006 Associate Prof., Dept. of Neuroscience, Univ. of Pittsburgh
2003-2006 Associate Prof., Center for the Neural Basis of Cognition, Univ. Pittsburgh
1999- Research Scientist, Learning Research & Development Ctr, Univ. Pittsburgh
1998-2002 Assistant Prof., Dept. of Neuroscience, U. of Pittsburgh
1997-2002 Assistant Prof., Center for the Neural Basis of Cognition, Univ. of Pittsburgh
1997-2002 Assistant Prof., Dept. of Psychology, Univ. of Pittsburgh
1992-1996 Postdoctoral Res. Assoc., Depts. Neurology, Univ. Iowa & Wash. Univ.

HONORS, AWARDS, AND FELLOWSHIPS

- 2007 Fellow, Association for Psychological Science
- 2002 APA Distinguished Scientific Award for Early Career Contribution to Psychology
- 2001 Chancellor's Distinguished Research Award
- 1999-2001 Alfred P. Sloan Research Fellow
- 1997 Wiley Young Investigator Award in Human Brain Mapping
- 1992-1996 Fellow, Charles A. Dana Foundation
- 1993 Finalist, Donald Lindsley Prize in Behavioral Neurosci., Soc. for Neuroscience
- 1991 Olin Fellowship for Outstanding Biomedical Research, Washington University
- 1987-1992 Fellow, Spencer T. Olin Foundation, Washington University
- 1987-1990 Fellow, National Science Foundation
- 1986 Phi Beta Kappa, Emory University
- 1983-1987 Woodruff Fellow, Emory University

PROFESSIONAL MEMBERSHIPS

- 2006- Member, Psychonomic Society
- 2006- Member, American Educational Research Association
- 2003- Member, Association for Psychological Science
- 1989- Member, Society for Neuroscience
- 1997- Member, Cognitive Neuroscience Society

PEER-REVIEWED JOURNAL ARTICLES

Moses-Kolko EL, Fraser D, Wisner KL, James JA, Sual AT, Fiez JA, Phillips ML (2011). Rapid habituation of ventral striatal response to reward receipt in postpartum depression. *Biological Psychiatry*, in press

Chein JM, Fiez JA (2010). Evaluating models of working memory through the effects of concurrent irrelevant information. *Journal of Experimental Psychology: General*, 139 :117-37.

Durisko C, Fiez JA (2010). Functional activation in the cerebellum during working memory and simple speech tasks. *Cortex*, 46 :896-906.

Nelson JR, Liu Y, Fiez J, Perfetti CA (2009). Assimilation and accommodation patterns in ventral occipitotemporal cortex in learning a second writing system. *Human Brain Mapping*, 30:810-20

Ben-Yehudah G, Fiez JA (2008). Impact of cerebellar lesions on reading and phonological processing. *Annals of the New York Academy of Sciences*, 1145:260-74.

Cox KM, Aizenstein JH, Fiez JA (2008). Striatal outcome processing in healthy aging. *Cognitive, Affective, and Behavioral Neuroscience*, 8:304-17.

Tricomi E, Fiez JA (2008). Feedback signals in the caudate reflect goal achievement on a declarative memory task. *Neuroimage*, 41:1154-67.

Wilson SJ, Sayette MA, Delgado MR, Fiez JA (2008). Effect of smoking opportunity on responses to monetary gain and loss in the caudate nucleus. *Journal of Abnormal Psychology*, 117:428-34.

Goldberg RF, Perfetti CA, Fiez JA, Schneider W (2007). Selective retrieval of abstract semantic knowledge in left prefrontal cortex. *Journal of Neuroscience*, 27:3790-8.

Liu Y, Dunlap S, Fiez JA, Perfetti C (2007). Evidence for neural accommodation to a writing system following learning. *Human Brain Mapping*, 28:1223-34.

Wilson SJ, Sayette MA, Fiez JA, Brough E (2007). Carry-over effects of smoking cue exposure on working memory performance. *Nicotine and Tobacco Research*, 9:613-9.

Ravizza SM, McCormick CA, Justus TA, Ivry RB, Fiez JA (2006). Cerebellar damage produces selective deficits in verbal working memory. *Brain*, 129:306-20.

Fiez JA, Tranel D, Seager-Frerichs D, Damasio H (2006). Specific reading and phonological processing deficits are associated with damage to the left frontal operculum. *Cortex*, 42:624-43.

Tricomi EM, Delgado MR, McCandliss BD, McClelland JL, Fiez JA (2006). Performance feedback drives caudate activation in a phonological learning task. *Journal of Cognitive Neuroscience*, 18:1029-1043.

Justus TC, Ravizza SM, Fiez JA, Ivry RB (2005). Reduced phonological similarity effects in patients with damage to the cerebellum. *Brain and Language*, 95:304-318.

Ravizza SM, Behrmann M, Fiez JA (2005). Right parietal contributions to verbal working memory: Spatial or executive? *Neuropsychologia*, 43:2057-67.

Wilson SJ, Sayette MA, Delgado MR, Fiez JA (2005). Instructed smoking expectancy modulates cue-elicited neural activity: A preliminary study. *Nicotine and Tobacco Research*, 7:637-645.

Delgado MR, Stenger VA, Fiez JA (2004). Motivation-dependent responses in the human caudate nucleus. *Cerebral Cortex*, 14:1022-30.

Gilbert AM & Fiez JA (2004). Integrating rewards and cognition in the frontal cortex. *Cognitive, Affective and Behavioral Neuroscience*, 4:540-52.

May CJ, Delgado MR, Dahl RE, Stenger A, Ryan ND, Fiez JA, Carter CA (2004). Event-related functional magnetic resonance imaging of reward-related brain circuitry in children and adolescents. *Biological Psychiatry*, 55:359-366.

Ravizza SM, Delgado MR, Chein JM, Becker JT, Fiez JA (2004). Functional dissociations within the inferior parietal cortex in verbal working memory. *Neuroimage*, 22:562-73.

- Tricomi EM, Delgado MR, Fiez JA (2004). Modulation of caudate activity by action contingency. *Neuron*, 41:281-292.
- Wilson SJ, Sayette MA, Fiez JA (2004). Prefrontal responses to drug cues: a neurocognitive analysis. *Nature Neuroscience*, 7:211-214.
- Delgado MR, Locke HM, Stenger VA, Fiez JA (2003). Dorsal Striatum Responses to Reward and Punishment: Effects of Valence and Magnitude Manipulations. *Cognitive, Affective, and Behavioral Neuroscience*, 3:27-38.
- McClelland JL, Fiez JA, McCandliss BD (2002). Teaching the /r/-/l/ Discrimination to Japanese Adults: Behavioral and Neural Aspects. *Physiology and Behavior*, 77:657-662.
- Chein JM, Fissell K, Jacobs S, Fiez JA (2002). Functional heterogeneity within Broca's area during verbal working memory. *Physiology and Behavior*, 77: 635-639.
- MacAndrew DK, Klatzky RL, Fiez JA, McClelland JL, Becker JT (2002). The phonological-similarity effect differentiates between two working memory tasks. *Psychological Science*, 13:465-468.
- McCandliss BD, Fiez JA, Protopapas A, Conway M, McClelland JL (2002). Success and failure in teaching the /r/-/l/ contrast to Japanese adults: Tests of a Hebbian model of plasticity and stabilization in spoken language perception. *Affective, Cognitive, and Behavioral Neuroscience*, 2:89-108.
- Chein JM and Fiez JA (2001). Dissociation of verbal working memory system components using a delayed serial recall task. *Cerebral Cortex*, 11:1003-1014.
- Roskies AL, Fiez JA, Balota DA, Raichle ME, Petersen SE (2001). Task-dependent modulation of regions in the left inferior frontal cortex during semantic processing. *Journal of Cognitive Neuroscience*, 13:829-843.
- Delgado MR, Fissell K, Nystrom LE, Noll DC, Fiez JA (2000). Tracking the hemodynamic responses to reward and punishment in the striatum. *Journal of Neurophysiology*, 84:3072-3077.
- Fiez JA, Damasio H, Grabowski TJ (2000). Lesion segmentation and manual warping to a reference brain: Intra- and interobserver reliability. *Human Brain Mapping*, 9:192-211.
- Rosen H, Petersen SE, Linenweber MR, Snyder AZ, White DA, Chapman L, Dromerick WA, Fiez JA, Corbetta M (2000). Neural correlates of recovery from aphasia after damage to left inferior frontal cortex. *Neurology*, 55:1883-1894.
- Becker JT, MacAndrew DK, Fiez JA (1999). A comment on the functional localization of the phonological storage subsystem of working memory. *Brain and Cognition*, 41:27-38.
- Fiez JA, Balota DA, Raichle ME, Petersen SE (1999). Effects of lexicality, frequency, and

spelling-to-sound consistency on the functional anatomy of reading. *Neuron*, 24:205-218.

Fiez JA, Petersen SE (1998). Neuroimaging studies of word reading. *Proceedings of the National Academy of Sciences, USA*, 95:914-921.

Petersen SE, van Mier H, Fiez JA, Raichle ME (1998). The effects of practice on the functional anatomy of task performance. *Proceedings of the National Academy of Sciences USA*, 95:853-860.

Fiez JA, Tranel D (1997). Standardized stimuli and procedures for investigating the retrieval of lexical and conceptual knowledge for actions. *Memory & Cognition*, 25:543-569.

Shulman GL, Corbetta M, Buckner RL, Raichle ME, Fiez JA, Miezin FM, Petersen SE (1997). Top-down modulation of early sensory cortex. *Cerebral Cortex*, 7:193-206.

Shulman GL, Corbetta M, Buckner RL, Fiez JA, Miezin FM, Raichle ME, Petersen SE (1997). Common blood flow changes across visual tasks: I. Increases in subcortical structures and the cerebellum but not in nonvisual cortex. *Journal of Cognitive Neuroscience*, 9:624-647.

Shulman GL, Corbetta M, Fiez JA, Buckner RL, Miezin FM, Raichle ME, Petersen SE (1997). Searching for activations that generalize over tasks. *Human Brain Mapping*, 5:317-322.

Shulman GL, Fiez JA, Corbetta M, Buckner RL, Miezin FM, Raichle ME, Petersen SE (1997). Common blood flow changes across visual tasks: II. Decreases in cerebral cortex. *Journal of Cognitive Neuroscience*, 9:648-663.

Fiez JA, Raichle ME, Balota DA, Tallal P, Petersen SE (1996). PET activation of posterior temporal regions during auditory word presentation and verb generation. *Cerebral Cortex*, 6:1-10.

Fiez JA, Raife EA, Balota DA, Schwarz JP, Raichle ME, Petersen SE (1996). A positron emission tomography study of the short-term maintenance of verbal information. *The Journal of Neuroscience*, 16:808-822.

Fiez JA, Tallal P, Raichle ME, Miezin FM, Katz WF, Petersen SE (1995). PET studies of auditory and phonological processing: Effects of stimulus characteristics and task demands. *Journal of Cognitive Neuroscience*, 7:357-375.

Raichle ME, Fiez JA, Videen TO, MacLeod AK, Pardo JV, Fox PT, Petersen SE (1994). Practice-related changes in human brain functional anatomy during nonmotor learning. *Cerebral Cortex*, 4:8-26.

Fiez JA, Petersen SE, Cheney MK, Raichle ME (1992). Impaired non-motor learning and error detection associated with cerebellar damage: A single-case study. *Brain*, 115:155-178.

INVITED REVIEWS AND COMMENTARIES

- Fiez JA, Schunn CD (2009). Understanding the Neuroscience of Rigorous Learning. Interview (Willen L, Snider J) published in *Understanding and Reporting on Academic Rigor: A Hechinger Institute Primer for Journalists*. NY: The Hechinger Institute on Education and the Media (Teachers College, Columbia University), pp. 11-13.
- Strick PL, Dum RP, Fiez JA (2009). Cerebellum and Non-Motor Function. *Annual Review of Neuroscience*, 32:413-34.
- Ben-Yehudah G, Guediche S, Fiez JA (2007). Cerebellar contributions to verbal working memory: beyond cognitive theory. *Cerebellum*, 63:193-201.
- Perfetti CA, Liu Y, Fiez J, Nelson J, Bolger DJ, Tan LH (2007). Reading in two writing systems: Accommodation and assimilation of the brain's reading network. *Bilingualism: Language and Cognition*, 10:131-146.
- Chein JM, Ravizza SM, Fiez JA (2003). Using neuroimaging to evaluate models of working memory and their implications for language processing. *Journal of Neurolinguistics*, 16:315-339.
- Fiez JA (2003). A user's commentary on Fiswidgets. *Neuroinformatics*, 1: 127-130.
- Fiez JA (2001). Bridging the gap between neuroimaging and neuropsychology: Using working memory as a case-study. *Journal of Clinical and Experimental Neuropsychology*, 23:19-31.
- Fiez JA (2001). Neuroimaging studies of speech: An overview of techniques and methodological approaches. *Journal of Communication Disorders*, 34:445-454.
- Fiez JA (2000). News and Views. Sound and meaning: how native language affects reading strategies. *Nature Neuroscience*, 3:3-5.
- Sandak, R Fiez JA (2000). Stuttering: A view from neuroimaging. *Lancet*, 356:445-446.
- Desmond JE, Fiez JA (1998). Neuroimaging studies of the cerebellum: Language, learning, and memory. *Trends in Cognitive Science*, 2: 355-361.
- Fiez, JA (1997). Phonology, semantics, and the role of the left inferior prefrontal cortex. *Human Brain Mapping*, 5:79-83.
- Demonet JF, Fiez JA, Paulesu E, Petersen SE, Zatorre RJ (1996). PET studies of phonological processing: A critical reply to Poeppel. *Brain and Language*, 55:352-379.
- Fiez JA (1996). Cerebellar contributions to cognition. *Neuron*, 16:13-15.
- Fiez JA, Petersen SE (1993). PET as part of an interdisciplinary approach to understanding

processes involved in reading. *Psychological Science*, 4:287-293.

Petersen SE, Fiez JA (1993). The processing of single words studied with positron emission tomography. *Annual Review of Neuroscience*, 16:509-530.

Petersen SE, Fiez JA, Corbetta M (1992). Neuroimaging. *Current Opinion in Neurobiology*, 2:217-222.

BOOKS AND BOOK CHAPTERS

Guediche S, Ben-Yehudah G, Fiez JA (2007). The cerebellum and language. To appear in: *The Cambridge Encyclopedia of the Language Sciences* (P Hogan ed), in press.

Ben-Yehudah G & Fiez JA (2007). Development of verbal working memory. *Human Behavior and the Developing Brain, 2nd Ed.*, (D Coch, KW Fischer, G Dawson, eds.), New York: Guilford Press, 301-328.

Perfetti C, Liu Y, Fiez JA (2005). The neural bases of reading: The accommodation of the brain's reading network to writing systems. *The Neural Basis of Reading* (P Cornelissen, M Kringelbach, P Hansen eds). Oxford: Oxford University Press, in press.

Buckner, RL, JG Keating, TA Martin, JA Fiez (2005). Seeing through prisms as a demonstration of visual-motor learning. *Lab Manual for Physiology: A Benjamin Cummings Custom Edition Preview Copy* (DU Silverthorn, BR Johnson, A Mills eds). San Francisco, CA: Benjamin Cummings.

Fiez JA and RL Buckner, JG Keating, and TA Martin (2005). The mind, brain, and human memory: Using behavioral measures to study cognitive functions. *Lab Manual for Physiology: A Benjamin Cummings Custom Edition Preview Copy* (DU Silverthorn, BR Johnson, A Mills eds). San Francisco, CA: Benjamin Cummings.

Keating JB, TA Martin, JA Fiez, and RL Buckner (2005). Altered limb position sense by muscle vibration. *Lab Manual for Physiology: A Benjamin Cummings Custom Edition Preview Copy* (DU Silverthorn, BR Johnson, A Mills eds). (DU Silverthorn, BR Johnson, A Mills eds). San Francisco, CA: Benjamin Cummings.

Fiez JA (2001). Reading, neural basis of. In: *International Encyclopedia of the Social and Behavioral Sciences* (Smelser NJ, Baltes PB, eds.). New York: Pergamon, Oxford, 12791-12796.

Ivry RB, Fiez JA (1999). Cerebellar contributions to cognition and imagery. In: *The New Cognitive Neurosciences* (Gazzaniga MS, ed). Cambridge, MA: The MIT Press, 999-1011.

McClelland JL, Thomas A, McCandliss BD, Fiez JA (1999). Understanding failures of learning: Hebbian learning, competition for representational space, and some preliminary experimental data. In: *Cognitive Disorders: The Neurocomputational Perspective* (Reggia J, Ruppin E, Glanzman D, eds). Oxford: Elsevier, 75-80. (Also appeared as: Progress in

Brain Research, 121:75-80.

Fiez JA (1997). Neuroimaging approaches to studying reading. In: *Functional Brain Imaging: Society for Neuroscience Short Course*. Washington, D.C.: Society for Neuroscience.

Fiez JA, Raichle ME (1997). Linguistic processing. In: *The Cerebellum and Cognition* (Schmahmann J, ed). San Diego, CA: Academic Press, 233-254. (Also appeared as: The International Review of Neurobiology, Vol. 41).

Fiez JA, Raichle ME, Petersen SE (1996). Identification of two pathways used for verbal response selection. In: *Developmental Dyslexia: Neural, Cognitive, and Genetic Mechanisms* (Chase C, Rosen G, Sherman G, eds). Timonium, MD: York Press, pp. 227-258.

Petersen SE, Fiez JA (1993). PET studies of language. In: *New views of cognition: Society for Neuroscience Short Course*. Washington, D.C.: Society for Neuroscience.

Fiez JA (1992). *Functional anatomy of lexical processing: PET activation and performance studies*. Ann Arbor, MI: Ph.D. Dissertation, University Microfilms, Inc.

RECENT CONFERENCE ABSTRACTS (2005-PRESENT)

Moore M, Perfetti CP, Fiez JA (2011). Reading faces: Examining the effects of a novel face-based orthography. *Annual Meeting of the Society for Neuroscience*, Washington DC.

Durisko C, Ben-Yehudah G, Fiez JA (2011). Neural correlates of text inversion. *Annual Meeting of the Society for Neuroscience*, Washington DC.

Kallai A, Schunn CD, Ponting A, Fiez JA (2011). Improving foundational number representations through simple arithmetical training. Society for Research on Educational Effectiveness Fall 2011 Conference.

Fiez JA, Balason VD, Ramaswamy R, Fissell C, Behrmann M (2010). The Western Pennsylvania patient registry: A new resource for neuropsychological research. *Cognitive Neuroscience Society 2010*, San Francisco, CA.

Kallai A, Ponting A, Schunn CD, Fiez JA (2011). Critical constituents of reward-based learning in an arithmetic task. *Cognitive Neuroscience Society 2010*, San Francisco, CA.

Balason VD, Ramaswamy R, Fissell C, Behrmann M, Fiez JA (2010). The Western Pennsylvania patient registry: A new resource for neuropsychological research. *Annual Meeting of the Society for Neuroscience*, San Diego CA.

Kallai A, Ponting A, Schunn CD, Fiez JA (2010). An arithmetical training regime improves number representation within HIPS and broad mathematical performance. *Annual Meeting of the Society for Neuroscience*, San Diego CA.

Durisko C, Raboy DA, Fiez JA (2010). Examining the effects of concurrent articulation on working memory and phonological decisions. *Annual Meeting of the Society for Neuroscience*, San Diego CA.

Kallai A, Ponting A, Schunn CD, Fiez JA (2010). An arithmetical training regime motivated by principles of basal ganglia function. *Cognitive Neuroscience Society 2010*, Montreal, Canada.

Ponting A, Kallai A, Schunn CD, Fiez JA (2010). General improvements in mathematical ability via a basal ganglia learning mechanism. *Cognitive Neuroscience Society 2010*, Montreal, Canada.

Guediche SA, Holt LL, Fiez JA (2009). Examining the neural basis of adaptation in speech perception without feedback. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.

Wilson SJ, Sayette MA, Fiez JA (2009). Self-focused versus other-focused cognitive strategies for coping with smoking cue exposure: A functional magnetic resonance imaging study. *Annual Meeting of the Society for Neuroscience*, Chicago, IL.

Fiez JA (2009). Educational Neuroscience: The challenges of bridge building. *National Science Foundation Science of Learning 2009*. Washington, DC.

Ben-Yehudah G, Tricomi E., Fiez JA (2008). Exploring individual differences in lateralization of fusiform activation during reading. *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.

Cox KM, Wu M, Aizenstein HJ, Fiez JA (2008). Visualizing the alignment of the striatum by alternative co-registration methods. *Annual Meeting of the Society for Neuroscience*, Washington, DC.

Forbes EE, Hariri AR, Fiez JA, Ryan ND, Manuck SB, Brown SA, Tarr J, Walser E, Moyles DL, Dahl RE (2008). Development of reward-related brain function from childhood to adulthood: A cross-sectional study. *Annual Meeting of the Society of Biological Psychiatry*, Washington, DC.

Gilbert AM, Fiez JA, Sugarman S, Phillips M, Frank E (2008). The physiological response to categorical processing of fear in alexithymia. *Annual Meeting of the Society of Biological Psychiatry*, Washington, DC.

Guediche S, Khatami M, Manners J, Fiez JA (2008). Using Morse code to understand verbal working memory representations, *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.

Laurent PA, Reichle ED, Fiez JA (2008). Does parallel anatomy translate to parallel computation in the basal ganglia? *Annual Meeting of the Society for Neuroscience*, Washington, DC.

- Moore J, Hui X, Ramaswamy R, Durisko C, Perfetti CA, Fiez JA (2008). A novel face-based orthography. *Annual Meeting of the Psychonomics Society*, Chicago, IL.
- Cox K, Aizenstein H, Fissell K, Fiez JA (2007). Imaging caudate responses to reward and punishment in healthy older adults. *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.
- Durisko C, Fiez JA (2007). Exploring the inner speech process in verbal working memory. *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.
- Guediche S, MacGregor L, Wheeler ME, Phillips JS, Fiez JA (2007). Investigating the echoic store. *Annual Meeting of the Society for Neuroscience*, San Diego, CA.
- Moya LH, Fiez JA, Wheeler ME (2007). Phonological maintenance of heard versus seen words: modality matters. *Annual Meeting of the Society for Neuroscienc.* San Diego, CA.
- Tricomi E, Wheeler ME, Fiez JA (2007). The effect of informational value of feedback on caudate activation. *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.
- Ben-Yehudah G, Moore M, Fiez JA (2006). Individual differences in adult reading skill: A role for verbal working memory? *Annual Meeting of the Psychonomic Society*, Houston, TX.
- Cox K, Tricomi E, Fiez JA (2006). Neuroimaging studies of reward-related processing in young vs. old adults. *Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
- Fiez JA, Singer A, Morales F, Worek A, Wheeler ME (2006). Activation of auditory, speech, and motor areas during word presentation: Effects of presentation modality and task demands. *Annual Meeting of the Society for Neuroscience*, Atlanta, GA.
- Guediche, S, Ben-Yehudah, G, Fiez, JA (2006). Examining the neural basis of the phonological similarity effect in verbal working memory. *Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
- Tricomi E, Fiez, JA (2006). Imaging the role of the caudate nucleus in feedback processing during a declarative memory task. *Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
- Ben-Yehuda G, Fiez JA (2005). Impact of cerebellar lesions on reading and verbal working memory. *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.
- Ben-Yehuda G, Stefkó NS, Fiez JA (2005). Task and modality effects in verbal working memory. *Annual Meeting of the Society for Neuroscience*, 65.22.
- Gilbert A, Fiez JA (2005). Trait measures of neuroticism influence the integration of rewards and cognition in the prefrontal cortex: A functional magnetic resonance imaging study. *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.

Guediche S, Fiez JA (2005). Dissociating articulatory and phonemic contributions to the “phonological” similarity effect. *Annual Meeting of the Cognitive Neuroscience Society*, New York, NY.

Tricomi E, Wheeler ME, Fiez JA (2005). BOLD Responses to reward-related choices and outcomes: Impact of slow and fast event-related designs. *Annual Meeting of the Society for Neuroscience*, 74.16.

INVITED CONFERENCE AND WORKSHOP PRESENTATIONS (2005-PRESENT)

Fiez (2009, July), The consequences of decision-making: Feedback-based processing and the basal ganglia. *Summer Symposium on Decision-Making*, Multimodal Neuroimaging Training Program, Pittsburgh, PA.

Fiez (2009, November). Educational neuroscience – time for a bridge? Symposium on Learning Research and Education Practice. *Science of Learning Centers Annual Meeting*, National Science Foundation, Washington, DC.

Fiez (2008, October). Can functional brain imaging be used to inform educational practice? In M McDonald (Organizer). *Science 2008*. University of Pittsburgh.

Fiez (2008, October). Feedback-based learning and declarative memory. In K Koedinger (Organizer). *Annual Workshop for Science of Learning Centers*. National Science Foundation, Washington, DC.

Fiez (2008, September). The cerebellum and verbal working memory. In M Leggio (Organizer) *Symposium on Cerebellum and Language*. Federation of the European Societies of Neuropsychology, Edinburgh, Scotland.

Fiez (2007, December). Educational neuroscience: Time for a bridge? In J Geake & U Goswami (Organizers) *Challenges and Opportunities for Educational Neuroscience*. Workshop sponsored by the National Science Foundation, Washington, D.C.

Fiez (2006, October). The cerebellum and reading. Invited speaker in the 25th *Conference of the Rodin Remediation Academy*. Washington, DC.

Fiez (2005, November). Building bridges between cognitive neuroscience research and education. In G Hurby (Organizer). *Educational research and the neurosciences: Questions, directions, collaborations, and funding*. Mini-symposium at the 2005 Annual Meeting of the Society for Neuroscience, Washington, DC.

Fiez (2005, October). fMRI studies of the neural basis of reward processing. In S Grant (Organizer). *Cognitive Approaches to Addiction: Progress and Pitfalls*. Workshop sponsored by the National Institute for Drug Abuse, Washington, DC.

Fiez (2005, July). Reward-related neural circuitry. In BG Casey (Organizer), 2005 John Merck Fund Summer Institute on the Biology of Developmental Disabilities. New York, NY.

RECENT DEPARTMENTAL COLLOQUIA (2005-PRESENT)

CRADL, Brains & Behavior, and LLI programs, Georgia State University, February 2011
Department of Psychology, Rutgers University, October 2009
Center of Executive Function and Dysfunction, U Colorado at Boulder, September 2009
Molecular, Cellular & Integrative Neurosciences Seminar Series, Colorado St U, Sept 2009
Psychological and Brain Sciences Colloquium Series, Dartmouth U, May 2009
Neuroscience Seminar Series, University of Colorado, September 2009
Cognitive Neuroscience Seminar Series, Colorado State U, September 2009
Distinguished Speakers Series, Dept. of Psychology, Michigan State U, March 2008
Annual Lecture Series, St. John's College, September 2007
Program in Neuroscience Seminar Series, U of Maryland School of Medicine, April 2007
Cognition and Perception Seminar Series, New York University, April 2007
fMRI Laboratory Speaker Series, University of Michigan, January 2006
Centre for Research on Language, Mind and Brain. University of Montreal, March 2005

ACTIVE RESEARCH PROJECTS

LRDC Internal Grants Competition 7/1/11-6/30/13
The Cerebellum and Language
Total costs: \$88,209
Project title: Principal Investigator

NIH R01RHD060388 8/15/2009-7/31/2014
Reading and the Right Fusiform
Total costs: \$1,545,000

NSF 0815945 8/15/09-7/31/11
Training in Arithmetical Fluency
Total costs: \$1,241,568
Project title: Principal Investigator

NSF/NIH Supplemental Award 7/1/09-6/30/10
Pittsburgh Science of Learning Center
Total costs: \$200,000
Project title: Principal Investigator (Center PI: Ken Koedinger)

NIH T32 GM081760-01 7/1/07-6/30/12
Predoctoral training program in behavioral brain research
Total costs: \$1,558,575 (\$1,485,792 direct costs; \$72,783 indirect costs)
Project title: Principal Investigator

NIH RO1MH59256 1/1/06-12/31/11
Articulatory/Phonological Processes in Working Memory
Total costs: \$2,235,698 (\$1,524,653 direct costs; \$710,945 indirect costs)
Project Title: Principal Investigator

PREVIOUSLY SPONSORED RESEARCH PROJECTS

NIH R01 DA018910 9/30/04-8/31/09
Pubertal Maturation and Drug Use Vulnerability
Total costs: \$1,466,875
Subcontract to Fiez: 0.6 months of annual salary support
Project title: Co-investigator

NIH R01 NS048178 7/15/05-5/31/09
fMRI in the Examination of Episodic Memory after TBI
Subcontract to Fiez: 5% annual effort
Project title: Co-investigator

NIH R01 DA02463 1/1/06-12/31/08
Neural Bases of Executive Control in Addiction
Total costs: \$800,000 (\$600,000 direct costs; \$200,00 indirect costs)
Project title: Principal Investigator

James S. McDonnell Foundation 12/01/02-5/1/07
The Functional Neuroanatomy of Reading: Comparative Research Across Writing Systems
and Levels of Expertise
Total costs: \$446,796 (\$446,796 direct costs, \$0 indirect costs)
Project Title: Principal Investigator (Charles Perfetti, Co-PI)

Pittsburgh Mind Body Center 1/1/07-12/31/07
Attentional bias, craving, and smoking-related cues: an fMRI investigation
Project title: Co-Investigator

Pittsburgh Science of Learning Center (NSF) 10/1/06-8/31/07
Training of arithmetical fluency
Total costs: \$27,420 (\$24,109 direct costs, \$3,312 indirect costs)
Project title: Principal Investigator

NIH P50 MH64445 6/01/02-5/30/07
Toward a Neurobiologically Constrained Framework for Modeling Human Cognition.
Interactive Processes in Language: Sentence Processing
Total center costs: \$9,733,932 (\$7,863,366 direct costs, \$1,870,566 indirect costs)
Subcontract to Fiez: \$438,388 (\$296,032 direct costs, \$142,356 indirect costs)
Project Title: Co-Investigator (James McClelland, Center PI; MaryEllen McDonald, proj PI)

NIH RO1MH59256 7/1/00-6/30/06
Articulatory/Phonological Processes in Working Memory

Total costs: \$1,469,319 (\$1,000,000 direct costs; \$469,319 indirect costs)
Project Title: Principal Investigator

Pittsburgh Institute for Neurodegenerative Disorders 4/1/03-3/31/06
Functional Neuroimaging of Reward-related Processing in Parkinson's Disease
Total costs: \$25,000 (\$25,000 direct costs; \$0 indirect costs)
Project Title: Principal Investigator

NIH 1R01 NS044837-01 10/01/02-6/30/05
Participation of the Cerebellum in Problem Solving
Total costs: \$772,000 (\$660,000 direct costs, \$112,000 indirect costs)
Subcontract to Fiez: 0.6 months of annual salary support
Project Title: Co-investigator (James Houk, PI)

NIH RO1 DA14103 8/01/01-12/31/05
fMRI Studies of the Neural Basis of Reward Processing
Total costs: \$879,042 (\$600,000 direct costs, \$279,042 indirect costs)
Project Title: Principal Investigator

Alfred P. Sloan Foundation 9/16/99-9/15/01
Alfred P. Sloan Research Fellowship
Total costs: \$35,000 (\$35,000 direct costs, \$0 indirect costs)
Project Title: Principal Investigator

NSF SBR 9873465 10/1/98-9/30/01
Computational Models and Coordinated Neuroimaging of Learning and Cognitive Function
Total costs: \$1,200,000 (\$985,338 direct costs; \$214,662 indirect costs)
Project title: Co-Principal Investigator (Walter Schneider, PI)

NSF IRI-9720350 10/1/97-9/30/00
The Biological Basis of Incremental Learning
Total costs: \$775,000 total award (\$691,305 direct costs, \$139,694 indirect costs)
Subcontract to Fiez: \$24,294 (\$13,915 direct costs; \$10,379 indirect costs)
Project Title: Co-Principal Investigator (David Touretzky, PI)

NSF IRI-9720348 10/1/97-5/31/00
Intervention Strategies that Promote Learning: Their Basis and Use in Enhancing Literacy
Total costs: \$998,161 (\$888,768 direct costs; \$109,493 indirect costs)
Subcontract to Fiez: \$212,189 (\$147,288 direct costs; \$64,901 indirect costs)
Project Title: Co-Principal Investigator (James McClelland, PI)

PROFESSIONAL SERVICE

Member of the Editorial Board for:
Cerebellum

Ad hoc manuscript reviewer (10-30 papers per year) for:

Behavioral Neuroscience
Brain
Brain and Language
Brain Research
Cerebral Cortex
Cognitive Neuropsychology
Human Brain Mapping
European Journal of Neurology
Journal of Cognitive Neuroscience
Journal of Neurophysiology
Journal of Neuroscience
Learning and Memory
Nature
Nature Neuroscience
Neuroimage
Neuron
Neuropsychologia
Neuropsychology
Proceedings of the National Academy of Sciences, USA
Science

Member of the NIH Cognitive Neuroscience Study Section (June 2005-July 2009)

Ad hoc grant reviewer:

National Science Foundation (IER, ROLE, and LIS initiatives)
NIH (R01, R03, P01, NRSA, & K grants to NIDA, NINDS, NIMH, NICHD, NCI)

UNIVERSITY AND DEPARTMENTAL SERVICE

Active service:

Director, Hot Metal Bridge Fellowship Program in Psychology (2010-present)
Member, Management Board, Neuroscience Imaging Center (2010-present)
Faculty Representative, Student Diversity Committee (2009-present)
Chair, LRDC Diversity Committee (2009-present)
Director of Graduate Studies and Chair, Graduate Education Committee (2009-)
Co-Director, Western Pennsylvania Patient Registry (2008-present)
Member, LRDC Psychology Executive Committee (2008-present)
Member, Psychology Executive Committee (2008-present)
Member, CNUP Training Grant Steering Committee (2003-present)
Member, CNBC Executive Committee (1997-present)
Ad-hoc Reviewer, Western Psychiatric Research Committee (1997-present)

Recent service:

Chair, Departmental Tenure Committee for Mark Wheeler (2009-2010)
Member, LRDC/Psychology Joint Search Committee (2009-2010)
Member, BIRC Management Committee (2002-2010)
Member, LRDC Strategic Planning Committee (2008-2009)

Co-Chair, BIRC Users Committee (2005-2008)
Member, Provost's LRDC Search Committee (2007-2008)
Chair, Human Neuroscience Search Committee (2005-2008)
Member, Psychology Faculty Development Committee (2003-2007)
Member, BIRC Safety Committee (2002-2007)
Member, LRDC Executive Committee (2003-2007)
Member, LRDC Strategic Planning Committee (2006-2007)
Member, Psychology Executive Committee (2002-2007)
Chair, Cognitive Program in Psychology (2004-2006)
Member, Graduate Education Committee (2004-2006)
Member, Human Neuroscience Search Committee (2004-2005)
Member, MRRC Imaging Management Committee (2002-2004)
Chair/Member, Psychology/LRDC Cognitive Search Committees (2001-2004)
Recruitment Chair, Cognitive Program in Psychology (2002-2004)
Co-Chair, Psych/LRDC/CNBC Cognitive Neurosci. Search Committee (2000-2003)
Member, Summer CNUP Undergraduate Training Program (2000-2003)
Member, Summer CNBC Training Program (1997-2000)
Faculty Representative, CNBC Colloquium Committee (1998-2001)
Member, CNUP Travel Committee (1999-2000)
Co-Chair, Cognitive Program Graduate Recruiting (1999-2000)
Member, Sloan Graduate Student Fellowship Selection Committee (2000)

COURSES TAUGHT

Undergraduate courses:

PSY042/0421: Human Cognition (98-1, 99-1, 00-2, 01-2, 04-2, 05-2, 06-2, 08-1)
PSY1470: Brain and Cognition (99-1, 01-1, 02-1, 03-2, 07-2)
PSY1054: Emotion and the Brain (03-2, 05-1, 07-1, 10-1)

Graduate courses:

PSY2475: Behavioral Neuroscience (10-1)
PSY2575: Perspectives on Psychology and Neuroscience (00-2, 01-2, 04-1, 06-1, 08-1)
PSY2575: Seminar on Affective Cognitive Neuroscience (01-2)
Guest lecturer in Neuro3, Graduate course in Systems Neuroscience (00-2, 02-1)
Faculty Supervisor, CNUP Journal Club (03-01)

CURRENT TRAINEE SUPERVISION

Post-doctoral fellow supervision:

Arava Kallai, 2009-

Graduate (Ph.D.) student supervision:

Karin Cox, Dept. of Psychology (Cognitive), 2004-present
Michelle Moore, Dept. of Communication Sciences & Disorders, 2005-present
Travis Simcox, Dept. of Psychology, 2010-present
Darshana Tuladhar, Dept. of Psychology, 2010-present

PREVIOUS TRAINEES

Post-doctoral fellow supervision:

Susan Ravizza, 2001-2004

Assistant Professor, Michigan State University

Simone Sprenger, 2003-2004

Visiting faculty, University of Groningen (Netherlands)

Gal Ben-Yehuda, 2004-2009

Assistant Professor, Open University, Israel

David Fraser, 2006-2009

Assistant Professor, Chatham University

Hilary Tindle, 2005-2009 (K-award co-mentor)

Assistant Professor, University of Pittsburgh

Graduate (Ph.D.) student supervision:

Andrea Ponting, Dept. of Neuroscience, 2008-2010

Departed program with a Master's degree for personal reasons

Sara Guediche, Dept. of Neuroscience, 2004-2009

Postdoctoral fellow, Brown University

Alison Gilbert, Dept. of Psychology (Clinical), 2001-2008

Research Scientist, Northshore Health System

Steve Wilson (co-advisor with Michael Sayette), Dept. of Psych (Clinical), 2002-2008

Assistant Professor, Penn State University

Elizabeth Tricoli, Psychology (Cognitive), 2000-2006

Assistant Professor, Rutgers University

Jason Chein (co-advisee with Walt Schneider), Psychology (Cognitive), 1997-2004

Assistant Professor, Temple University

Mauricio Delgado, Dept. of Neuroscience, 1998-2002

Assistant Professor, Rutgers University

Dimitrios Donavos, Dept. of Psychology (Cognitive), 2000-2004

Departed program with a Master's degree

Chris May, Dept. of Psychology (Cognitive), 2004-2006

Departed program with a Master's degree for personal reasons