

September 10, 2018

Tim Curran
Curriculum Vita

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Professional Experience

2009 Professor
-present Department of Psychology and Neuroscience
 University of Colorado

2003 Associate Professor
-2009 Department of Psychology
 University of Colorado

2000 Assistant Professor
-2003 Department of Psychology
 University of Colorado

1995 Assistant Professor
-2000 Department of Psychology
 Case Western Reserve University

1993 Postdoctoral Research Fellow
-1995 Department of Psychology
 Harvard University
 Supervisor: Daniel L. Schacter, Ph.D.

Extramural Grants and Contracts Awarded, Current

NIMH R21, "Neural Habituation in Ultra-High Risk Youth"
\$275,000 total direct costs, 4/1/2017 - 3/31/2019.
PI: V Mittal (Northwestern)
Co-Investigator

NICHD R01, "Developing Adaptive Coordination of Executive Function."
Total direct costs: \$1,037,500. 8/1/2016-5/31/2021.
PI: Yuko Munakata
Co-Investigator

Office of Naval Research (ONR), May 2014 to December 2019
"Bidirectional Vision"
\$ 2,727,102 total direct costs (\$784,634 for my part)
PI: Randy O'Reilly
Co-Investigator

R01, NIH/NIBIB, May 2013 – April 2017

“Improving the Detection of Activation in High Resolution fMRI using Multivariate”

\$ 508,017 total direct costs (\$264,854 for my part)

PI: Dietmar Cordes

(Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV)

Co-Investigator

Science of Learning Center, National Science Foundation, Sept. 2006 to Sept. 2017

"The Temporal Dynamics of Learning Center (TDLC)"

\$15,638,238 total direct costs (~\$300,000 for my part)

PI: Garrison Cottrell

1 of many Senior Personnel

Extramural Grants and Contracts Completed

NIMH RO1, National Institute of Mental Health, Sept 2012 to July 2017

“Expert Memory: Superior Encoding, Enhanced Retrieval, and Refined Perception”

\$750,000 total direct costs

Co-PI (with Grit Herzmann)

United States Army Research Institute (ARI) for the Behavioral and Social Sciences

August 2011 – Sept 2016

“Exploring the use of visual features and recognition strategies in perceptual expertise”

\$1,922,652 total direct costs (\$390,744 for my part)

PI: Lisa Scott

Co-Investigator

Research Initiation Grant, National Science Foundation, Jan. 2013 to Dec. 2014

“Improving Attitudes towards Engineering Via Aesthetics”

\$107,671 total direct costs

Co-Investigator

RO1, National Institute of Mental Health, June 2007 to May 2013

“ERP studies of dual processes in human recognition memory”

\$1,107,177 total direct costs

Principal Investigator

RO1, National Institute of Mental Health, Jan. 2002 to May 2007

“ERP studies of dual processes in human recognition memory”

\$950,000 total direct costs

Principal Investigator

P50, NIMH Interdisciplinary Behavioral Science Center, April 2008 to March 2013

"Determinants of Executive Function and Dysfunction"

\$5,983,931 total direct costs (\$150,000 for my part)

PI: Marie Banich

Co-Investigator

RO1, National Institutes of Health (NIBIB), May 2009 to April 2013

"Neural Electromagnetic Ontologies (NEMO):

ERP Knowledge Representation & Integration"

\$500,000 total direct costs (~120,000 for my part)

PI: Dejing Dou

1 of 7 Co-investigators

Collaborative Activity Bridging Mind, Brain, & Behavior, James McDonnell Foundation,
 Jan. 2001 - Dec. 2008
 "Perceptual Expertise Network "
 \$3,500,000 (\$450,000 for my part)
 PI: Isabel Gauthier, Vanderbilt University
 1 of 8 Co-investigators

Science Applications International Corporation, June 2007 to January 2008
 "MTMI Face Project"
 \$22,461 direct costs
 Principle Investigator

DARPA & NGA (National Geospatial-Intelligence Agency), Oct. 2005 to Jan. 2007
 "Image Prioritization Based on Expert Neural Response to Change"
 \$115,069 direct costs
 Co-Principal Investigator (with Gibson, SAIC)

NIH High End Instrumentation Program
 July 2002 - June 2003
 "Whole-head MEG System for Brain Research"
 \$2,000,000 for purchase of MEG Instrument
 PI: Martin Reite (University of Colorado Health Sciences Campus)
 1 of 19 Co-investigators, Advisory Board Member

McDonnell-Pew Foundation, Dec. 1997 - Dec. 2001
 " ERP Studies of Recollection and Familiarity "
 \$104,758
 Principal Investigator

AFAR Research Grant, American Federation for Aging Research, July 1997 - June 1999
 "Event-Related Potentials of Sensory Underload "
 \$36,927
 Principal Investigator

Intramural Grants Completed

W.P. Jones Presidential Faculty Development Award, Summer, 1999
 Case Western Reserve University College of Arts & Sciences
 "ICON Conference Presentation, Budapest"
 \$1518

Pilot Grant, Case Western Reserve University Alzheimer Disease Research Center
 June 1996 - May 1999
 "Brain Electrical Studies of Attention In Alzheimer Disease"
 \$11,380

Research Initiation Grant, Case Western Reserve University, Jan. 1996 - Dec. 1997
 "ERP Studies of Implicit and Explicit Memory"
 \$5000

W.P. Jones Presidential Faculty Development Award, Spring 1996
 Case Western Reserve University College of Arts & Sciences
 "ERP Studies of Implicit and Explicit Memory"
 \$1600

Submitted Manuscripts

- Cordes, D., Kaleem, M., Zhuang, X., Sreenivasan, K., Yang, Z., Curran, T., Mishra, V. Empirical Mode Decomposition and Energy-Period Characteristics of Brain Networks in Group fMRI Resting-State Data. *NeuroImage*.
- Hadley, H., Arnold, E., Tanaka, J.W., Curran, T., & Scott, L.S. Specificity of learning impacts multidimensional space after training with objects, *Memory & Cognition*.
- Goodman, K., Curran, T. & Hertzberg, J. Visual Expertise in Fluid Flows: Uncovering a Link Between Conceptual and Perceptual. *Journal of Engineering Education*.

Peer-Reviewed Publications (119 total, some available at <http://psych.colorado.edu/~tcurran/papers.html>)

- Noh, E., Liao, K., Mollison, M. V., Curran, T., & de Sa, V. R. (2018). Single-trial EEG analysis predicts memory retrieval and reveals source-dependent differences. *Frontiers in Human Neuroscience*, *12*(258). doi:10.3389/fnhum.2018.00258
- Herzmann, G., Minor, G., & Curran, T. (2018). Neural evidence for the contribution of holistic processing but not attention allocation to the other-race effect on face memory. *Cognitive, Affective, & Behavioral Neuroscience*. doi:10.3758/s13415-018-0619-z
- Jones, T., Hadley, H., Cataldo, A. M., Arnold, E., Curran, T., Tanaka, J. W., & Scott, L. S. (2018). Neural and behavioral effects of subordinate-level training of novel objects across manipulations of color and spatial frequency. *European Journal of Neuroscience*. doi:10.1111/ejn.13889
- Ross, R. S., Smolen, A., Curran, T., & Nyhus, E. (2018) MAO-A phenotype effects response sensitivity and the parietal old/new effect during recognition memory, *Frontiers in Human Neuroscience*, *12*:53. doi: 10.3389/fnhum.2018.00053.
- Yang, Z., Zhuang, X., Sreenivasan, K., Mishra V., Curran, T., Byrd, R., Nandy, R., Cordes, D. (2017). 3D spatially-adaptive canonical correlation analysis: Local and global methods. *NeuroImage*, in press. <http://dx.doi.org/10.1016/j.neuroimage.2017.12.025>.
- Medrano, P., Nyhus, E., Smolen, A., Curran, T., & Ross, R. S. (2017). Individual differences in EEG correlates of recognition memory due to DAT polymorphisms. *Brain and Behavior*, *7*:e00870. <https://doi.org/10.1002/brb3.870>
- Zhuang, X., Yang, Z., Curran, T., Byrd, R., Nandy, R., Cordes, D. (2017). A Family of Constrained CCA Models for Detecting Activation Patterns in fMRI. *NeuroImage*, *149*:63-84. <http://dx.doi.org/10.1016/j.neuroimage.2016.12.081>.
- Stróžak, P., Bird, C.W., Corby, K., Friskoff, G., & Curran, T. (2016). FN400 and LPC memory effects for concrete and abstract words. *Psychophysiology*, DOI: 10.1111/psyp.12730.
- Earls, H., Curran, T., & Mittal, V.A. (2016). A meta-analytic review of auditory event-related potential components as endophenotypes for schizophrenia: Perspectives from first-degree relatives. *Schizophrenia Bulletin*. doi: 10.1093/schbul/sbw047
- Stróžak, P., Abedzadeh, D., & Curran, T. (2016). Separating the FN400 and N400 potentials across recognition memory experiments. *Brain Research*, *1635*, 41-60.
- Earls, H., Curran, T., & Mittal, V.A. (2016). Deficits in early stages of face processing in schizophrenia: A systematic review of the P100 component. *Schizophrenia Bulletin*, *42*, 519-527. doi:10.1093/schbul/sbv096
- Hagen, S., Vuong, Q. C., Scott, L. S., Curran, T., & Tanaka, J. W. (2016). The role of spatial frequency in expert object recognition. *Journal of Experimental Psychology: Human Perception and Performance*, *42*, 413-422.
- Ross, R. S., Medrano, P., Boyle, K., Smolen, A., Curran, T., & Nyhus, E. (2015). Genetic variation in the serotonin transporter gene influences ERP old/new effects during recognition memory. *Neuropsychologia*, *78*, 95-107. PMID: 26423665

- Chevalier, N., Martis, S., Curran, T., & Munakata, Y. (2015). Meta-cognitive processes in executive control development: The case of reactive and proactive control. *Journal of Cognitive Neuroscience*, *27*, 1125-1136. PMID: 25603026
- Schwikert, S.R. & Curran, T. (2014) Familiarity and recollection in heuristic decision making. *Journal of Experimental Psychology: General*, *143*, 2341-65.
- Hagen, S., Vuong, Q. C., Scott, L. S., Curran, T., & Tanaka, J. W. (2014). The role of color in expert object recognition. *Journal of Vision*, *14*. doi: 10.1167/14.9.9
- Ketz, N., O'Reilly, R.C., & Curran, T. (2014). Classification aided analysis of oscillatory signatures in controlled retrieval. *NeuroImage*, *85*, 749-760. PMID: 23845425
- Noh, E., Herzmann, G., Curran, T., & de Sa, V. R. (2014). Using single-trial EEG to predict and analyze subsequent memory. *NeuroImage*, *84*, 712-723. PMID: 24064073
- Herzmann, G. & Curran, T. (2013). Neural correlates of the in-group memory advantage on the encoding and recognition of faces. *PLoS ONE*, *8(12)*: e82797. doi:10.1371/journal.pone.0082797.
- Lai, V. T., & Curran, T. (2013). ERP evidence for conceptual mappings and comparison processes during the comprehension of conventional and novel metaphors. *Brain and Language*, *127*, 484-496. PMID: 24182839
- Depue, B.E., Ketz, N., Mollison, M.V., Nyhus, E., Banich, M.T., & Curran, T. (2013). ERPs and Neural Oscillations during Volitional Suppression of Memory Retrieval. *Journal of Cognitive Neuroscience*, *25*, 1624-1633. PMID: 23647560
- Jones, M., Curran, T., Mozer, M. C., & Wilder, M. H. (2013). Sequential effects in response time reveal learning mechanisms and event representations. *Psychological Review*, *120*, 628-666. doi: 10.1037/a0033180.
- Herzmann, G., Bird, C. W., Freeman, M., & Curran, T. (2013). Effects of oxytocin on behavioral and ERP measures of recognition memory for own-race and other-race faces in women and men. *Psychoneuroendocrinology*, *38*, 2140-2151. doi: 10.1016/j.psyneuen.2013.04.002, PMID: 23648370
- Wilder, M. H., Jones, M., Ahmed, A., Curran, T., & Mozer, M. C. (2013). The persistent impact of incidental experience. *Psychonomic Bulletin & Review*, *20*, 1221-1231. DOI 10.3758/s13423-013-0406-3
- Nyhus, E., & Curran, T. (2012). Midazolam induced amnesia reduces memory for details and affects the ERP correlates of recollection and familiarity. *Journal of Cognitive Neuroscience*, *24*, 416-427. PMID: 22004049
- Mollison M. V., & Curran, T. (2012). Familiarity in source memory. *Neuropsychologia*, *50*, 2546-2565. PMID: 22789677
- Herzmann, G., Young, B., Bird, C. W., & Curran, T. (2012). Oxytocin can impair memory for social and non-social visual objects: A within-subject investigation of oxytocin's effects on human memory. *Brain Research*, *1451*, 65-73. PMID: 22424787
- Wyatte, D., Curran, T., O'Reilly, R. C. (2012) The limits of feedforward vision: Recurrent processing promotes robust object recognition when objects are degraded. *Journal of Cognitive Neuroscience*, *24*, 2248-2261. PMID: 22905822
- Chatham, C. H., Claus, E. D., Kim, A., Curran, T., Banich M. T., Munakata, Y. (2012) Cognitive control reflects context monitoring, not motoric stopping, in response inhibition. *PLoS ONE*, *7*, e31546. doi:10.1371/journal.pone.0031546. PMID: 22384038
- Talebi, N., Nasrabadi, A. M., & Curran, T. (2012). Investigation of changes in EEG complexity during memory retrieval: the effect of midazolam. *Cognitive Neurodynamics*. doi: 10.1007/s11571-012-9214-0
- Herzmann, G., Jin, M., Cordes, D., & Curran, T. (2012). A within-subject ERP and fMRI investigation of orientation-specific recognition memory for pictures. *Cognitive Neuroscience*, *3*, 174-192. DOI:10.1080/17588928.2012.669364. PMID: PMC3439853
- Cordes, D., Herzmann, G., Nandy, R., & Curran, T. (2012). Optimization of contrast detection power with probabilistic behavioral information. *NeuroImage*, *60*, 1788-1799. DOI: 10.1016/j.neuroimage.2012.01.127. PMID: 22326984
- Cordes, D., Jin, M., Curran, T., & Nandy, R. (2012). The Smoothing Artifact of Spatially Constrained Canonical

- Correlation Analysis in Functional MRI. *International Journal of Biomedical Imaging*. doi:10.1155/2012/738283. PMID: 23365555
- Cordes, D., Jin, M., Curran, T., & Nandy, R. (2012). Optimizing the Performance of Local Canonical Correlation Analysis in fMRI using Spatial Constraints. *Human Brain Mapping*, *33*, 2611-2626. PMID: 23074078
- Jin, M., Pelak, V., Curran, T., Nandy, R., & Cordes, D. (2012). A preliminary study of functional abnormalities in aMCI subjects during different episodic memory tasks. *Magnetic Resonance Imaging*, *30*, 459-470, doi:10.1016/j.mri.2011.12.014. PMID: 22387024
- Jin, M., Nandy, R., Curran, T., & Cordes, D. (2012). Extending Local Canonical Correlation Analysis to Handle General Linear Contrasts for fMRI Data. *International Journal of Biomedical Imaging*, *2012*, doi:10.1155/2012/574971. PMID: 22461786
- Frishkoff, G., Sydes, J., Mueller, K., Frank, R., Curran, T., Connolly, J., Kilborn, K., Molfese, D., Perfetti, C., Malony, A. (2011). Minimal Information for Neural Electromagnetic Ontologies (MINEMO): A standards-compliant method for analysis and integration of event-related potentials (ERP) data. *Standards in Genomic Sciences*, *5*, 211–223, doi: 10.4056/sigs.2025347. PMID: 22180824
- Pierce, L. J., Scott, L., Boddington, S., Droucker, D., Curran, T., & Tanaka, J. (2011). The N250 brain potential to personally familiar and newly learned faces and objects. *Frontiers in Human Neuroscience*, *5*, 1-13. PMID: 22059071
- Herzmann, G., Willenbockel, V., Tanaka, J. W., & Curran, T. (2011). The neural correlates of memory encoding and recognition of own-race and other-race faces. *Neuropsychologia*, *49*, 3103-3115. PMID: 21807008
- Herzmann, G. & Curran, T. (2011). Experts' memory: An ERP study of perceptual expertise effects on encoding and recognition. *Memory & Cognition*, *39*, 412-432. PMID: 21264603
- Curran, T., & Doyle, J. (2011). Picture superiority doubly dissociates the ERP correlates of recollection and familiarity. *Journal of Cognitive Neuroscience*, *23*, 1247-1262. PMID: 20350169
- Rass, O., Landau, J.D., Curran, T., Leynes, P.A. (2010). Event-related potential (ERP) correlates of memory blocking and priming during a word fragment test. *International Journal of Psychophysiology*, *78*, 136-150. PMID: 20620176
- Snyder, H. R., Hutchinson, N., Nyhus, E., Curran, T., Banich, M. T., O'Reilly, R. C. & Munakata, Y. (2010). Neural inhibition enables selection during language processing. *Proceedings of the National Academy of Sciences*, *107*, 16483-16488. PMID: : PMC2944747. PMID: 20813959
- Nyhus, E., & Curran, T. (2010). Functional role of gamma and theta oscillations in episodic memory. *Neuroscience & Biobehavioral Reviews*, *34*, 1023-1035. PMID: 2856712
- Rossion, B., & Curran, T. (2010). Visual expertise with pictures of cars correlates with RT magnitude of the car inversion effect. *Perception*, *39*, 173-183. PMID: 20402240
- Lai, V. T., Curran, T., & Menn, L. (2009). Comprehending conventional and novel metaphors: An ERP study. *Brain Research*, *1284*, 145-155. PMID: 19505446
- Nyhus, E., & Curran, T. (2009). Semantic and perceptual effects on recognition memory: evidence from ERP. *Brain Research*, *1283*, 102-114. PMID: 19505439
- Curran, T., Gibson, L., Horne, J. H., Young, B., & Bozell, A. P. (2009). Expert image analysts show enhanced visual processing in change detection. *Psychonomic Bulletin & Review*, *16*, 390-397. PMID: 19293112
- Huber, D. E., Clark, T. F., Curran, T., & Winkielman, P. (2008). Effects of repetition priming on recognition memory: Testing a perceptual fluency-disfluency model. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *34*, 1305-1324. PMID: 18980396
- Huber, D. E., Xing, T., Curran, T., O'Reilly, R. C., & Woroch, B. (2008). The dynamics of integration and separation: ERP, MEG, and neural network studies of immediate repetition effects. *Journal of Experimental Psychology: Human Perception and Performance*, *34*, 1389-1416. PMID: 19045982
- D'Lauro, C., Tanaka, J. W., & Curran, T. (2008). The preferred level of face categorization depends on discriminability. *Psychonomic Bulletin & Review*, *15*, 623-629. PMID: 18567265
- Bayley, P. J., O'Reilly, R. C., Curran, T., & Squire, L. R. (2008). New semantic learning in patients with large medial temporal lobe lesions. *Hippocampus*, *18*, 575-583. PMID: 18306299

- Scott, L. S., Tanaka, J. W., Sheinberg, D. L., & Curran, T. (2008). The role of category learning in the acquisition and retention of perceptual expertise: A behavioral and neurophysiological study. *Brain Research*, *1210*, 204-215. PMID: 18417106
- Norman, K. A., Tepe, K. L., Nyhus, E., & Curran, T. (2008). Event-related potential correlates of interference effects on recognition memory. *Psychonomic Bulletin & Review*, *15*, 36-43. PMID: 18605477
- Frank, M. J., D'Lauro, C., & Curran, T. (2007). Cross-task individual differences in error processing: Neural, electrophysiological and genetic components. *Cognitive, Affective, & Behavioral Neuroscience*, *7*, 297-308. PMID: 18189003
- Frank, M. J., Moustafa, A. A., Haughey, H. M., Curran, T., & Hutchison, K. E. (2007). Genetic triple dissociation reveals multiple roles for dopamine in negative reinforcement learning. *Proceedings of the National Academy of Sciences*, *104*, 16311-16316. PMID: 17913879
- Speer, N. K., & Curran, T. (2007). ERP correlates of familiarity and recollection processes in visual associative recognition. *Brain Research*, *1174*, 97-109. PMID: 17825273
- Curran, T., Debus, C., & Leynes, P. A. (2007). Conflict and criterion setting in recognition memory. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, *33*, 2-17. PMID: 17201551
- Curran, T., & Hancock, J. (2007). The FN400 indexes familiarity-based recognition of faces. *NeuroImage*, *36*, 464-471. PMID: 17258471
- Depue, B. E., Curran, T., & Banich, M. T. (2007). Prefrontal regions orchestrate suppression of emotional memories via a two-phase process. *Science*, *317*, 215-219. PMID: 17626877
- Rossion, B., Collins, D., Goffaux, V., & Curran, T. (2007). Long-term visual expertise with artificial objects increases visual competition with early face categorization processes. *Journal of Cognitive Neuroscience*, *19*, 543-555. PMID: 17335400
- Rugg, M. D., & Curran, T. (2007). Event-related potentials and recognition memory. *Trends in Cognitive Sciences*, *11*, 251-257. PMID: 17481940
- Curran, T., DeBuse, C., Woroch, B., & Hirshman, E. (2006). Combined pharmacological and electrophysiological dissociation of familiarity and recollection. *Journal of Neuroscience*, *26*, 1979-1985. PMID: 16481430
- Depue, B. E., Banich, M. T., & Curran, T. (2006). Suppression of emotional and nonemotional content in memory: effects of repetition on cognitive control. *Psychological Science*, *17*, 441-447. PMID: 16683933
- Frank, M. J., O'Reilly, R. C., & Curran, T. (2006). When memory fails, intuition reigns: midazolam enhances implicit inference in humans. *Psychological Science*, *17*, 700-707. PMID: 16913953
- Jacobs, J., Hwang, G., Curran, T., & Kahana, M. J. (2006). EEG oscillations and recognition memory: Theta correlates of memory retrieval and decision making. *NeuroImage*, *32*, 978-987. PMID: 16843012
- Scott, L. S., Tanaka, J. W., Sheinberg, D. L., & Curran, T. (2006). A reevaluation of the electrophysiological correlates of expert object processing. *Journal of Cognitive Neuroscience*, *18*, 1453-1465. PMID: 16989547
- Tanaka, J. W., Curran, T., Porterfield, A. L., & Collins, D. (2006). Acquisition of pre-existing and acquired face representations: The N250 event-related potential as an index of face familiarity. *Journal of Cognitive Neuroscience*, *18*, 1488-1497. PMID: 16989550
- Wong, A. C., Gauthier, I., Woroch, B., DeBuse, C., & Curran, T. (2005). An early electrophysiological response associated with expertise in letter perception. *Cognitive, Affective, & Behavioral Neuroscience*, *5*, 306-318. PMID: 16396092
- Frank, M. J., Woroch, B., & Curran, T. (2005). Error-related negativity predicts reinforcement learning and conflict biases. *Neuron*, *47*, 495-501. PMID: 16102533
- Gonsalves, B. D., Kahn, I., Curran, T., Norman, K. A., & Wagner, A. D. (2005). Memory strength and repetition suppression: Multimodal imaging of medial temporal cortical contributions to recognition. *Neuron*, *47*, 751-761. PMID: 16129403
- Tanaka, J. W., Curran, T., & Sheinberg, D. (2005). The training and transfer of real-world, perceptual expertise. *Psychological Science*, *16*, 145-151. PMID: 15686581

- Curran, T. (2004). Effects of attention and confidence on the hypothesized ERP correlates of recollection and familiarity. *Neuropsychologia*, *42*, 1088-1106. PMID: 15093148
- Curran, T., & Friedman, W. J. (2004). ERP old/new effects at different retention intervals in recency discrimination tasks. *Cognitive Brain Research*, *8*, 107-120. PMID: 14736570
- Curran, T., & Cleary, A. M. (2003). Using ERPs to dissociate recollection from familiarity in picture recognition. *Cognitive Brain Research*, *15*, 191-205. PMID: 12429370
- Curran, T., & Dien, J. (2003). Differentiating amodal familiarity from modality-specific memory processes: An ERP study. *Psychophysiology*, *40*, 979-988. PMID: 14986851
- Curran, T. & Friedman, W. J. (2003) Differentiating location- and distance-based processes in memory for time: An ERP study. *Psychonomic Bulletin & Review*, *10*, 711-717. PMID: 14620368
- Gauthier, I., Curran, T., Curby, K. M., & Collins, D. (2003). Perceptual interference supports a non-modular account of face processing. *Nature Neuroscience*, *6*, 428-432. PMID: 12627167
- Goldmann, R. E., Sullivan, A. L., Droller, D. B. J., Rugg, M. D., Curran, T., Holcomb, P. J., Schacter, D. L., Daffner, K. R., Budson, A. E. (2003). Late frontal brain potentials distinguish true and false recognition. *NeuroReport*, *14*, 1717-1720. PMID: 14512844
- Waber, D. P., Marcus, D. J., Forbes, P. W., Bellinger, D. C., Weiler, M. D., Sorensen, L. G., & Curran, T. (2003). Motor sequence learning and reading ability: Is poor reading associated with sequencing deficits? *Journal of Experimental Child Psychology*, *84*, 338-354. PMID: 12711531
- Curran, T., Tanaka, J. W., & Weiskopf, D. M. (2002). An electrophysiological comparison of visual categorization and recognition memory. *Cognitive, Affective, & Behavioral Neuroscience*, *2*, 1-18. PMID: 12452581
- Deckersbach, T., Savage, C. R., Curran, T., Bohne, A., Wilhelm, S., Baer, L., Jenike, M. A., & Rauch, S. L. (2002). A study of parallel implicit and explicit information processing in patients with obsessive-compulsive disorder. *American Journal of Psychiatry*, *159*, 1780-1782. PMID: 12359688
- Cleary, A. M., Curran, T., & Greene, R. L. (2001). Memory for detail in item and associative recognition. *Memory & Cognition*, *29*, 413-423. PMID: 11407418
- Curran, T., Hills, A., Patterson, M. B., & Strauss, M. E. (2001). Effects of aging on visuospatial attention: An ERP study. *Neuropsychologia*, *39*, 288-301. PMID: 11163607
- Curran, T., Schacter, D. L., Johnson, M. K., & Spinks, R. (2001). Brain potentials reflect behavioral differences in true and false recognition. *Journal of Cognitive Neuroscience*, *13*, 201-216. PMID: 11244546
- Tanaka, J. W., & Curran, T. (2001) A neural basis for expert object recognition. *Psychological Science*, *12*, 43-47. PMID: 11294227
- Curran, T. (2000). Brain potentials of recollection and familiarity. *Memory & Cognition*, *28*, 923-938. PMID: 11105518
- Heckers, S., Curran, T., Goff, D., Rauch, S. L., Fischman, A. J., Alpert, N. M., & Schacter, D. L. (2000). Abnormalities in the thalamus and prefrontal cortex during episodic object recognition in schizophrenia. *Biological Psychiatry*, *48*(7), 651-657. PMID: 11032976
- Schacter, D. L., Curran, T., Reiman, E. M., Chen, K., Bandy, D. J., & Frost, J. T. (1999) Medial temporal lobe activation during episodic encoding and retrieval: A PET study. *Hippocampus*, *9*, 575-581. PMID: 10560928
- Curran, T. (1999). The electrophysiology of incidental and intentional retrieval: ERP old/new effects in lexical decision and recognition memory. *Neuropsychologia*, *37*, 771-785. PMID: 10408645
- Curran, T., Schacter, D. L., & Galluccio, L. (1999). Cross-modal priming and explicit memory in patients with verbal production deficits. *Brain and Cognition*, *39*, 133-146. PMID: 10079121
- Rauch, S. L., Whalen, P. J., Curran, T., McInerney, S., Heckers, S., & Savage, C. R. (1998). Thalamic deactivation during early implicit sequence learning: a functional MRI study. *Neuroreport*, *9*, 0865-0870. PMID: 9579681

- Curran, T. (1997). Higher-order associative learning in amnesia: Evidence from the serial reaction time task. Journal of Cognitive Neuroscience, *9*, 522-533.
- Curran, T. (1997). Effects of aging on implicit sequence learning: Accounting for sequence structure and explicit knowledge. Psychological Research/Psychologische Forschung, *60*, 24-41. PMID: 9225617
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Book Chapters and Other Non-peer-reviewed Publications (17 total)

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Presentations at Conferences and Meetings

- Yang Z, Zhuang X, Curran T, Byrd R, Mishra V, Sreenivasan K, and Cordes D. (2017). *Spatial adaptive kernel canonical correlation analysis*. Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
- Yang Z, Zhuang X, Curran T, Byrd R, Nandy R, Mishra V, Sreenivasan K, and Cordes D (2017). *Simultaneous whole-brain fMRI activation analysis using spatially adaptive kernel CCA method*. Annual Organization of Human Brain Mapping (OHBM) Proceedings.
- Young, A. P., Healy, A. F., Jones, M., & Curran, T. (2017, November). *Facilitating voluntary self-testing through an automated question-generation educational application*. Poster to be presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, British Columbia, Canada.
- Devillez, H., O'Reilly, R.C. and Curran, T. (2017), *The bimodality of saccade duration distribution*. Talk presented at the 19th European Conference on Eye Movements, Wuppertal, Germany, August 20-24.
- Devillez, H., Rohrlich, J., Sheinberg, D.L., O'Reilly, R.C. & Curran, T. (2017), *Exposure duration influences holistic vs. part-based learning in visual object recognition*. Poster presented at the 40th European Conf. on Visual Perception, Berlin, Germany, August 27-31
- Hagen, S., Vuong, Q.C., Scott, L.S., Curran, T., & Tanaka, J. (2017). *Examining the role of motion in expert object recognition*. Poster to be presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Carr, A., Jones, T., Cataldo, A., Hadley, H., Arnold, E., Tanaka, J.W., Curran, T., & Scott, L.S. (2017). *A Dissociation Between Visual Strategy Use and Accuracy after Perceptual Expertise Training*. Poster to be presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Jones, T., Hadley, H., Cataldo, A., Arnold, E., Curran, T., Tanaka, J.W., & Scott, L.S. (2017). *Subordinate-level training with novel objects differentially impacts neural and behavioral*

- processing*. Poster to be presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Hertzberg, J., Goodman, K., & Curran, T. (2016) *Seeing Fluid Physics via Visual Expertise Training*. Abstract published in Bulletin of the American Physical Society, Volume 61, Number 20 pg 110. APS Division of Fluid Dynamics 69th Annual Meeting, Portland, OR: American Physical Society, November 20-22, 2016. <http://meetings.aps.org/Meeting/DFD16/Session/D9.1>.
- Darvishi, M.J., Nasrabadi, A.M., Curran, T. (2016) *Effective Connectivity Measuring of ERP Signals in Recognition Memory Process by Generalized Partial Directed Coherence*. Oral presentation to the 23rd Iranian Conference on Biomedical Engineering and 1st International Iranian Conference on Biomedical Engineering. Tehran, Iran.
- Devillez, H., O'Reilly, R.C. and Curran, T. (2016), *Eye-Fixation Related Potentials evidence for incongruent object processing during scene exploration*. Poster presented at the 39th European Conf. on Visual Perception, Barcelona, Spain.
- Stróžak, P., Bird, C., Corby, K., Frishkoff, G., Curran, T. (2016). *The FN400 familiarity effects for concrete and abstract words*. Poster presented at the NEURONUS 2016, IBRO & IRUN Neuroscience Forum, Cracow, Poland.
- Earls, H.A., Tobias, M., & Curran, T. (2016). *More than meets the eye? The P100 component in response to intact and scrambled emotional faces*. Poster presented at the 9th Annual meeting of the Social & Affective Neuroscience Society. New York.
- Herzmann, G., & Curran, T. (2016). *Holistic processing but not attention allocation contributes to the own-race advantage in face recognition*. Cognitive Neuroscience Society Annual Meeting, New York.
- Young, A. P., Healy, A. F., Jones, M., & Curran, T. *Comparative Experience is Not Enough: Challenges of Eliciting Awareness of the Testing Effect*. (2016). Invited paper presented in the symposium Studies from the Center for Research on Training, University of Colorado Boulder at the 86th Annual Rocky Mountain Psychological Association Convention. Denver, CO, April 2016.
- Tack, L. A., Healy, A. F., Jones, M., & Curran, T. (2016, August). Isolating the effects of individual accuracy, group accuracy, and task feedback on learning. In E. L. Bjork & R. A. Bjork (Chairs), *Memory dynamics and the optimization of instruction revisited*. Symposium conducted at the American Psychological Association Convention, Denver, CO.
- Yang, Z., Zhuang, X., Curran, T., Cordes, D. (2016). *A simulation study comparing three correlation measures in canonical correlation analysis for fMRI*. Poster presented to the Organization for Human Brain Mapping, Geneva, Switzerland.
- Yang, Z., Zhuang, X., Curran, T., Cordes, D. (2016). *A novel optimization approach for kernel canonical correlation analysis in activation detection*. Poster presented to the Organization for Human Brain Mapping, Geneva, Switzerland.
- Zhuang, X., Yang, Z., Curran, T., Cordes, D. (2016). *A new spatially constrained canonical correlation analysis model in fMRI activation detection*. Poster presented to the Organization for Human Brain Mapping, Geneva, Switzerland.
- Zhuang, X., Yang, Z., Curran, T., Cordes, D. (2016). *Study of the Transfer Functions of Hippocampal Subfields during a Spatial Memory Task*. Poster presented to the Organization for Human Brain Mapping, Geneva, Switzerland.
- Jin, M., Zhuang, X., Curran, T., Cordes, D. (2016). *Feature selection and classification of aMCI subjects using local fMRI activation patterns*. International Society for Magnetic Resonance in Medicine (ISMRM) conference, Singapore.
- Zhuang, X., Curran, T., Cordes, D. (2016). *Study of the Transfer Functions of Hippocampal Subfields during a Spatial Memory Task using High-Resolution fMRI*. International Society for Magnetic Resonance in Medicine (ISMRM) conference, Singapore.

- Zhuang, X., Merener, M., Yang, Z., Curran, T., Byrd, R., Nandy, R., Cordes, D. (2016). *A family-constrained local canonical correlation model to improve activation detection in fMRI*. International Society for Magnetic Resonance in Medicine (ISMRM) conference, Singapore.
- Earls, H., Correll, J., & Curran, T. (2016). *Group membership alters perceived similarity*. Poster presented at the 17th Annual Society of Personality and Social Psychology conference, San Diego, California, USA.
- Hagen, S., Vuong, Q.C., Scott, L.S., Curran, T., & Tanaka, J. (2016). *Exploring the gaze strategies of expert object recognition by the means of eye-tracking*. Poster presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Hadley, H., Arnold, E., Cataldo, A., Tanaka, J.W., Curran, T., & Scott, L.S. (2016). *The importance of color and spatial frequency information after laboratory-trained perceptual expertise*. Poster presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Devillez, H. & O'Reilly, R.C., & Curran, T. (2016). *Co-registration of eye movements and EEG to study semantic congruency during scene perception*. Poster presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Young, A. P., Healy, A. F., Jones, M., & Curran, T. (2015) *Discovery and adoption of the testing effect: Challenges of eliciting self-testing behavior in students*. Poster presented at the 26th Annual Meeting of the Psychonomic Society. Chicago, Illinois.
- Earls, H., Curran, T., & Mittal, V. (2015). *A Systematic Review of the P100 Event-Related Potential Component During Face Processing in Schizophrenia*. Poster presented at the 29th Annual Society for Research in Psychopathology conference, New Orleans, Louisiana, USA.
- Ketz, N., O'Reilly, R.C., & Curran, T. (2015). *Classification aided analysis of oscillatory connectivity during controlled retrieval*. Poster presented to the Organization for Human Brain Mapping, Honolulu, Hawaii.
- Jin, M., Curran, T., & Cordes, D. (2015) *Prediction of aMCI subjects using local fMRI activation patterns*. Poster presented to the Organization for Human Brain Mapping, Honolulu, Hawaii.
- Zhuang, X., Sreenivasan, K., Curran, T. Cordes, D. (2015). *Analysis of Activations in Hippocampal Subfields for a Spatial Memory Task*. Poster presented to the Organization for Human Brain Mapping, Honolulu, Hawaii.
- Vettel, J.M., Garcia, J.O, Mullen, T., Kerick, S.E., Bird, C., McDowell, K.,Tarr, M.J., Curran, T. (2015). *Brain Networks during Multisensory Integration of Real-world Audiovisual Events*. Poster presented to the Organization for Human Brain Mapping, Honolulu, Hawaii.
- Powell, M.A., Garcia, J.O., Bird, C., Tarr, M.J., Curran, T., Vettel, J.M. (2015). *EEG classification reveals the temporal dynamics of multisensory processes*. Poster presented to the Human Brain Mapping, Honolulu, Hawaii.
- Curran, T., Mollison, M.V., Tanaka, J.W., Scott, L.S. (2015). *The role of color and spatial frequency in perceptual expertise training*. Poster presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Hadley, H., Arnold, E., Curran, T., Tanaka, J.W., Scott, L.S. (2015). *Multidimensional-expertise space: Multidimensional scaling changes after expertise training with objects*. Poster presented at the Annual Meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Earls, H.A. & Curran, T. (2015). *Learning Group Membership: An ERP Examination of Early Visual Processing of In-group and Out-group Membership During Training*. Poster presented at the 22nd Annual Cognitive Neuroscience Society conference.
- Earls, H.A. & Curran, T. (2015). *ERP examination of the impacts of group membership on face processing*. Poster presented at the 16th Annual Society of Personality and Social Psychology conference.
- Stróžak, P, Abedzadeh, D., Curran, T. (2014). *Topographical and functional differences between FN400 and N400 event-related potentials (ERPs)*. Poster presented at the IV International Conference Aspects of Neuroscience, Warsaw, Poland

- Hertzberg, J., Goodman, K., Curran, T., & Finkelstein, N. (2014). *Aesthetics and Visual Perception in Engineering Education*. Small poster presented at the NSF Engineering Education Awardees' Meeting, Arlington, VA, United States, September 20, 2014.
- Goodman, K., Hertzberg, J., Curran, T., & Finkelstein, N. (2014). *Expanding Perception through Flow Visualization: Helping Students See Fluid Dynamics Beyond the Classroom*. Poster presented at the 6th Annual Symposium on STEM Education, University of Colorado, Boulder, September 29, 2014. http://www.colorado.edu/csl/2014_Symposium.html.
- Hertzberg, J., Curran, T., Goodman, K. (2014). *Measuring Visual Expertise in Fluid Dynamics*. E7.00002. Oral presentation presented at the APS -67th Annual Meeting of the APS Division of Fluid Dynamics, San Francisco, CA, November 23, 2014. <http://meetings.aps.org/Meeting/DFD14/Session/E7.2>.
- Hertzberg, J., Goodman, K., Curran, T., & Finkelstein, N. (2014). *Flow Vis and Beyond: The Power of Aesthetics in Engineering Education*. Invited, Northern New Mexico College, December 9, 2014.
- Noh, E., Mollison, M., Herzmann, G., Curran, T., de Sa, V. (2014). *Towards a passive brain computer interface for improving memory*, Proceedings of the 6th International Brain Computer Interface Conference.
- Noh, E., Mollison, M., Curran, T., de Sa, V. (2014). *Single-Trial Identification of Failed Memory Retrieval*, 48th Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, Nov. 2014.
- Noh, E., Herzmann, G., Curran, T., de Sa, V. (2014). *Predicting subsequent memory from single-trial EEG*, presented at the 12th International conference on Intelligent Tutoring Systems.
- Merener, M., Curran, T., Byrd, R., Nandy, R., Cordes, D. (2014) *A study of new constraints in Canonical Correlation Analysis for detection of activation patterns*. Human Brain Mapping Conference, Hamburg, Germany.
- Merener, M., Curran, T., Byrd, R., Nandy, R., Cordes, D. (2014) *A new cross-validation technique for active-voxel detection methods based on groups of voxels*. Human Brain Mapping Conference, Hamburg, Germany.
- Jin, M., Curran, T. & Cordes, D. (2014). *Classification of amnesic mild cognitive impairment using fmri*. 2014 IEEE International Symposium on Biomedical Imaging, Beijing, China.
- Frishkoff, G. A., Rickles, B., Frank, R.M., Bird, C., Curran, T., Mah, R., Connolly, J., Connell, S., Kilborn, K., & Perfetti, C. A. (2014). *Meta-analysis of event-related potentials in episodic and semantic memory: a cross-lab study*. Psychophysiology, Volume 51, Pages S67-S67. Poster presented at the Society for Psychophysiological Research, Fifty-Fourth Annual Meeting, Atlanta, GA.
- Medrano P., Nyhus E., Curran T., Robert Ross, R. (2014) *The influence of dopamine polymorphisms on ERP amplitudes and reaction time during recognition memory*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, DC, USA.
- Schwikert, S. & Curran, T. (2014) *Heuristic decision making: A new memory-based process model*. The Social and Affective Neuroscience Society. Denver, CO.
- Chevalier, N., Martis, S. B., Curran, T., & Munakata, Y. (2014). *Proactive control can be encouraged during childhood*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Hagen, S., Vuong, Q.C., Scott, L.S., Curran, T., Tanaka, J. (2014). *The role of spatial frequencies in expert object recognition*. Journal of Vision, 14 (10), 1287. Poster presented at the annual meeting of the Vision Science Society, St. Pete Beach, Florida, USA.
- Schwikert, S. & Curran, T. (2013) *Familiarity and Recollection in Heuristic Decision Making*. The Psychonomic Society Annual Meeting, Toronto, ON, CA.
- Mollison, M. V. & Curran, T. (2013) *Oscillatory desynchronization during source memory retrieval*. Cognitive Neuroscience Society Annual Meeting. San Francisco, CA, USA.

- Schwikert, S. & Curran, T. (2012) *ERP Correlates of Recognition Memory in Heuristic Decision Making*. The Psychonomic Society Annual Meeting. Minneapolis, MN, USA.
- Mollison, M. V. & Curran, T. (2012) *Familiarity in Source Memory*. Annual Summer Interdisciplinary Conference (ASIC). Cala Gonone, Dorgali, Italy.
- Cordes, D., Herzmann, G., Nandy, R., Curran, T. (2012). *Memory activation for recollection and familiarity in the medial temporal lobes using fMRI*. Human Brain Mapping Conference, Beijing.
- Herzmann, G. & Curran, T. (2012). *Oxytocin and recognition memory—Behavioral and ERP effects on own-race and other-race faces, sub-processes of memory, and participant's sex*. Poster presented at the annual meeting of the Society for Neuroscience, New Orleans, USA.
- Herzmann, G., Willenbockel, V., Tanaka, J. W., & Curran, T. (2011). *The neural processes underlying memory encoding and retrieval of own-race and other-race faces*. Poster presented at the annual meeting of the Vision Science Society, Naples, USA.
- Herzmann, G., Jin, M., Cordes, D., Curran, T. (2011). *The role of the parietal cortex in picture orientation recollection: A within-subject investigation with ERPs and fMRI*. Cognitive Neuroscience Society annual meeting, San Francisco.
- Jin, M., Pelak, V., Curran, T., Nandy, R., & Cordes, D. (2011). *Memory activation changes of aMCI subjects in subregions of the medial temporal lobe*. Human Brain Mapping Conference.
- Jin, M., Pelak, V., Curran, T., Nandy, R., & Cordes, R. (2011). *Abnormal resting-state activity in default mode network of aMCI subjects*. Human Brain Mapping Conference.
- Cordes, D., Jin, M., Curran, T., Pelak, V., & Nandy, R. (2011). *Differentiation of aMCI subjects and normal controls using multivariate analysis of fMRI data*. Human Brain Mapping Conference.
- Cordes, D., Curran, T., Jin, M., & Nandy, R. (2011). *Optimization of contrast power using probabilistic behavioral information*. Human Brain Mapping Conference.
- Cordes, D., Jin, M., Curran, T., & Nandy, R. (2011). *Artifacts and spatial dominance constraints using canonical correlation analysis in functional MRI*. Human Brain Mapping Conference.
- Cordes, D., Jin, M., Curran, T., & Nandy, R. (2011). *The bleeding artifact of spatially constrained canonical correlation analysis in functional MRI*. Proceedings of the International Society for Magnetic Resonance in Medicine (ISMRM).
- Jin, M., Pelak, V., Curran, T., Nandy, R., & Cordes, D. (2011). *Altered medial temporal lobe activations in aMCI subjects during encoding and recognition tasks*. Proceedings of the International Society for Magnetic Resonance in Medicine (ISMRM).
- Cordes, D., Jin, M., Curran, T., Pelak, V., & Nandy, R. (2011). *Discriminant analysis and prediction of a MCI subjects and normal controls using encoding and recognition fMRI tasks*. Proceedings of the International Society for Magnetic Resonance in Medicine (ISMRM).
- Vettel, J.M., Lau, T., Bird, C., McDowell, K., Tarr, M.J., Curran, T. (2011, November). *Network dynamics of multisensory integration of real-world environmental events*. Talk given to the Annual Society for Neuroscience Conference, Washington, DC.
- Mollison, M. V. & Curran, T. (2011, August). *Familiarity in Unbound Source Recognition*. Presentation at the Fifth International Conference on Memory, York, UK.
- Herzmann, G., Willenbockel, V., Tanaka, J. W., & Curran, T. (2011, May). *The neural processes underlying memory encoding and retrieval of own-race and other-race faces*. Poster presented at the annual meeting of the Vision Science Society, Naples, USA.
- Mollison, M. V. & Curran, T. (2011, April). *Investigating Familiarity's Contribution to Source Recognition*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
- Herzmann, G., Jin, M., Cordes, D., & Curran, T. (2011, April). *The role of the parietal cortex in picture orientation recollection: A within-subjects investigation with ERPs and fMRI*. Poster presented at the annual meeting of the Cognitive Neuroscience Society.

- Nyhus, E., & Curran, T. (2011, April). *Individual differences in executive function updating predict episodic retrieval*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
- Lai, V. T. & Curran, T. (2011, May). Conceptual Mappings and Comparison Processes in Metaphor Comprehension. Talk to be presented in Processing and Appreciating Creative Figurative Language. Heidelberg, Germany, 2011.
- Jones, M., Curran, T., Mozer, M., & Wilder, M.H. (2011, February). Sequential dependencies and the representation of temporal structure: Toward primitive mechanisms of learning, memory, and generalization. Poster presented at the Annual Computational and Systems Neuroscience (COSYNE) Meeting. Salt Lake City, Utah.
- Lai, V. T., Bethard, S. Curran, T. (2010, June). Early ERP Effects of the Metaphorical Profile of a Word. Talk to be presented in the 7th Mental Lexicon Conference. Windsor, Canada.
- Jin, M., Pelak, V., Curran, T., Banich, M., Nandy, R., & Cordes, D. (2010, June). fMRI differences between Mild Cognitive Impairment Subjects and Normal Subjects during Memory Tasks, Poster presented at the Annual Meeting of the Organization for Human Brain Mapping. Barcelona, Spain.
- Jin, M., Pelak, V., Curran, T., Banich, M., Nandy, R., & Cordes, D. (2010, May). Differences of Functional Activation Patterns between Subjects with Mild Cognitive Impairment and Normal Subjects. Poster presented at the Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM). Stockholm, Sweden.
- Herzmann, G., Curran, T. (2010, April). Effects of expertise on recognition memory. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Canada.
- Kharitonova, M., Curran, T., & Munakata, Y. (2010, April). ERP explorations of the relationship between filtering irrelevant information and working memory capacity. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Canada.
- Mollison, M. V., Curran, T. (2010, April). Source information retrieval in a recognition memory task. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Canada.
- Nyhus, E., Curran, T. (2010, April). Theta oscillations in top-down control of source memory retrieval. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Montreal, Canada.
- Chatham, C. H., Claus, E. D., Curran, T., Banich, M. T., Kim, A., Munakata, Y. (2010, March). The Prefrontal Mechanism Underlying Inhibitory Control: Monitoring or Stopping? Poster presented at the 20th Annual Rotman Research Institute Conference on The Frontal Lobes, Toronto, Canada. Awarded "Outstanding Trainee Poster"
- Jones, M., Curran, T., Mozer, M., & Wilder, M.H. (2009, November). Sequential effects reflect learning of temporal structure. Paper presented at the 50th Annual Meeting of the Psychonomic Society (Boston, MA).
- Curran, T. (2009, October). Human learning and memory: Perspectives from event-related brain potentials (ERPs). Invited presentation to the First Sino-German Fall School of the International Research Training Group (IRTG) "Adaptive Minds: Neural and Environmental Constraints on Learning and Memory", Beijing, China.
- Curran, T. (2009, August). The ERP Correlates of Perceptual Expertise. Invited presentation to the Temporal Dynamics of Learning Center Boot Camp, San Diego, CA.
- Kharitonova, M., Curran, T., Munakata, Y., Kitajo, K., & Yamaguchi, Y. (2009; October). Theta oscillations reflect individual differences in working memory capacity. Poster presented at the Society for Neuroscience meeting, Chicago, IL.
- Lai, T. V. Curran, T. (2009 September). Comparison Processes and Conceptual Mappings in Metaphor Comprehension: Evidence from ERPs. Poster presented at the 15th Annual Conference on Architectures and Mechanisms for Language Processing, Barcelona, Spain.
- Lai, V. T., Curran, T. (2009, October). Conceptual mappings as comparison in metaphor comprehension. Poster presented at the Neurobiology of Language Conference. Chicago, Illinois, USA

- Vettel, J.M., Nestor, A., Bird, C.W., Heller, L.M., Curran T., & Tarr, M. J. (2009). Investigating the Interplay of Time & Semantics during Multimodal Integration. Poster presented at the 10th International Multimodal Research Forum, New York, NY.
- Snyder, H., Hutchison, N., Nyhus, E., Curran, T., Munakata, Y. (2009, July). So many options: The roles of neural inhibition and abstract representations in selection. Poster presented at the annual meeting of the Cognitive Science Society, Amsterdam, Netherlands.
- Nyhus, E., Curran, T. (2009, March). Recollection revealed by its absence: Midazolam-induced amnesia reduces memory for details and the ERP correlate of recollection. Paper presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
- D'Lauro, C., Scott, L.S., Sheinberg, D, Tanaka, J.W., & Curran, T. (2008, November). Spaced learning promotes robust perceptual expertise. Poster presented at Society for Neuroscience Conference in Washington, DC.
- Kharitonova, M., Curran, T., Miyake, A., & Munakata, Y. (2008, April). The relationship between working memory and filtering efficiency reverses with task demands: An ERP and behavioral study. Poster presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA.
- Nyhus, E., Dennis, S., Curran, T. (2008, April). ERP indices of orthographic and normative frequency in recognition memory. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
- Piatt, C., Sadr, J., Curran, T. & Tanaka, J. (2008, March). The visual aha!: Investigating the onset of object perception using ERPs. Poster presentation at 2008 annual Joseph R. Royce Research Conference, University of Alberta, Edmonton, AB, Canada.
- Nyhus, E., Curran, T. (2008, January). Insights from ERP and behavioral modeling on a recognition memory task. Paper presented at the annual Context and Episodic Memory Symposium, Tampa, Florida.
- Speer, N., & Curran, T. (2007, November). Associative encoding is not always optimal for long-term memory retrieval. Society for Neuroscience Abstracts.
- Scott, L. S., Tanaka, J. W., Curran, T. (2007, November). Revisiting the N170 as an Index of Perceptual Expertise. Paper presented at the Workshop on the Electrophysiological Manifestation of Face Processing Methodology and Interpretation. Juden Hills, Israel.
- D'Lauro, C., Tanaka, J. W., & Curran, T. (2007, November). The preferred level of face categorization depends on discriminability. Poster presented at the 48th Annual meeting of the Psychonomic Society, Long Beach, CA.
- Huber, D. E., Fazendeiro, T., Curran, T., & Winkielman, P. (2007, November). Perceptual disfluency effects in recognition memory. Paper presented at the 48th Annual meeting of the Psychonomic Society, Long Beach, CA.
- Lai, V. T., Curran, T., Menn, L. (2007, August). The Comprehension Of Conventional And Novel Metaphors: An ERP Study. Poster presented at the 13th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP), Turku, Finland.
- Nyhus, E., Curran, T. (2007, July). Semantic and Perceptual Contributions to Recognition Memory. Paper presented at the Australian Society for Cognitive Science, Adelaide, Australia.
- Nyhus, E., Curran, T. (2007, May). Perceptual Processing in Recognition Memory: An ERP Study. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York.
- Rass, O., Leynes, P.A., Landau, J.D., Curran, T., Raj., V., & Scisco, J. (2007) Event-Related Potential (ERP) Evidence of Blocked Retrieval. Poster presented at (1) The Annual Meeting of the Eastern Psychological Association, Baltimore, MD., March, 2007, (2) The Annual Meeting of the Cognitive Neuroscience Society, New York City, May, 2007.
- Speer, N., & Curran, T. (2006, November). ERP components involved in recognizing visual associations. Paper presented at the annual meeting of the Psychonomic Society, Houston, TX.

- Hauser, M., Craighead, W.E., Curran, T., (2006, November). Cognitive and Emotional Influences on Event-Related Brain Potentials. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Chicago, IL.
- Depue, B. E., Banich, M. T., Curran, T. (2006, November). Suppression of emotional and nonemotional content in memory: Effects of repetition on cognitive control. Paper presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Chicago, IL.
- Curran, T, Speer, N., and Hancock, J. (2006, July). ERP perspectives on binding in familiarity and recollection. Paper presented at The 4th International Conference on Memory, Sydney, Australia.
- Curran, T., (2006, May) Human learning and memory: Perspectives from event-related brain potentials (ERPs). Invited paper presented at the annual conference of The Taiwan Society of Clinical Neurophysiology (TSCN). Taipei, Taiwan.
- Depue, B. E., Banich, M. T., Curran, T. (2006). Neural mechanisms involved in the suppression of emotional memories. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.
- Nyhus, E., & Curran, T. (2005). Early Perceptual Processing in Recognition Memory: An ERP study. Society for Neuroscience Abstracts.
- Scott, L. S., Tanaka, J. W., Sheinberg, D. L., & Curran, T. (2005). Becoming an Expert: Tracing the acquisition of perceptual expertise with ERPs. Society for Neuroscience Abstracts.
- Tanaka, J. W., Curran, T., Boddington, S., & Droucker, D. (2005). The N250 component as a measure of object and non-human face familiarity effects in ERPs. Society for Neuroscience Abstracts.
- Jacobs, J., Hwang-Grodzins, G., Curran, T., Kahana, M. J. (2005, April). EEG Oscillations Illustrate Cortical Roles in Memory Retrieval. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York.
- Fazendeiro, T., Huber, D., Curran, T., & Winkielman, P. (2005). Fluency Flip Flops: Priming effects on false recognition reverse as a function of prime processing. Poster presented at the 5th annual meeting of Society for Personality and Social Psychology. New Orleans, Louisiana.
- D'Lauro, C.J., Tanaka, J.W., Curran, T. (2004, October). Category level effects on object and face recognition: An N170 ERP study. Society for Neuroscience Abstracts.
- Gonsalves, B.D., Kahn, I., Curran, T., Norman, K.A., Wagner, A.D. (2004, October). Spatiotemporal predictors of later face recollection: Prefrontal cortex mediates top-down modulation of encoding. Society for Neuroscience Abstracts.
- Jacobs, J., Kahana, M. J., Curran, T. (2004, October). Oscillatory correlates of verbal working memory. Society for Neuroscience Abstracts.
- Peissig, J.J., Sanderson, M.I., Singer, J., Tanaka, J., Curran, T., Sheinberg, D.L. (2004, October). Changes in visual evoked potentials as a function of long-term familiarity in monkeys and humans. Society for Neuroscience Abstracts.
- Wong, A.C., Curran, T., Woroch, B., DeBuse, C., and Gauthier, I. (2004, May). N170 associated with expertise in letter perception. Fourth Annual Meeting of the Vision Sciences Society, Sarasota, FL.
- Huber, D. E., Curran, T., O'Reilly, R. C., & Woroch, B. (2004, April). Measuring the dynamics of word perception with ERPs: Immediate repetition priming with different prime durations. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Rossion, B., Curran, T., Collins, D., Goffaux, V. (2004, April) Evidence for overlapping early visual processes involved in face and car expertise at the level of the N170. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Tanaka, J. W. Curran, T., Porterfield, A., Collins, D. (2004, April) The N250 ERP component as an index of experimentally induced and pre-experimentally familiar faces. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Curran, T. (2003, October). ERP correlates of familiarity-based recognition. Invited presentation at the 43rd Annual Meeting of the Society for Psychophysiological Research, Chicago, IL.

- Depue, B. E., Banich, M., Curran, T. (2003, November). Cognitive control of emotional and non-emotional content in memory. Poster presented at the annual meeting of the Psychonomic Society, Vancouver, BC.
- Fazendeiro, T., Huber, D. E., Curran, T., & Winkielman, P. (2003, November). Recognition bias caused by immediate repetition priming depends on extent of prime processing. Poster presented at the annual meeting of the Psychonomic Society, Vancouver, BC.
- Curran, T., (2003, April). ERP studies of recognition memory. Invited presentation at the 73rd Annual Convention of the Rocky Mountain Psychological Association. Denver, CO.
- Curran, T. (2003, March). Exploring perceptual expertise: A multi-disciplinary approach to understanding visual object recognition. Symposium chaired at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Gauthier, I., Curran, T., Curby, K. M., & Collins, D. (2003, March). Perceptual interference evidence for a non-modular account of face processing. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Gonsalves, B., Davachi, L., Norman, K. A., Tim Curran, T. & Wagner, A. D. (2003, March). Neural correlates of recollection and familiarity-based recognition memory for faces. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Huber, D. E., Curran, T., O'Reilly, R. C., & Worocho, B. (2003, July). Immediate repetition priming: Measuring synaptic depression with ERPs. Poster presented at the Twelfth Annual Computational Neuroscience meeting, Alicante, Spain.
- Norman, K. A., Curran, T., & Tepe, K. (2002, November). Event-related potential correlates of interference effects on recognition memory. Paper presented at the annual meeting of the Psychonomic Society, Kansas City.
- Curran, T. (2002, May). ERP explorations of dual processes in recognition memory. Invited paper presented at the International Conference on Binding in Human Memory, Saarbruecken, Germany.
- Goldman, R., Schacter, D., Daffner, K., Holcomb, P., Curran, T., Rugg, M, & Budson, A. (2002, April). Event-related potentials distinguish true and false recognition when student and lure items are discriminable. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Huber, D., Curran, T., & O'Reilly, R. (2002, April). Discounting repeated words through synaptic depression: Using event-related potentials to measure the correlates of linger and depressing neural activation. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Norman, K. A., Curran, T., & Tepe, K. (2002, April). Event-related potential correlates of interference effects on recognition memory. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Curran, T., Tanaka, J. W., & Weiskopf, D. M. (2001, June). Differentiating object categorization and recognition processes: A high density ERP study. Poster presented at the 7th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Brighton, UK.
- Curran, T. (1999, November). Electrophysiological correlates of recollection and familiarity. Paper presented at the meeting of the Psychonomic Society. Los Angeles, CA.
- Deckersbach, T., Savage, C.R., Curran, T., Wilhelm, S., Baer, L., Jenike, M.A., & Rauch, S.L. (1999, November). Implicit and Explicit Memory in OCD. Poster presented at the 33rd Meeting of the Association for the Advancement of Behavior Therapy, Toronto, Canada.
- Curran, T. (1999, July). ERP evidence for dual processes in recognition memory. Invited paper presented at the 7th International Conference on Cognitive Neuroscience (ICON VII). Budapest, Hungary.
- Curran T., Spinks, R., Thomas, C., Gilmore, G.C. (1999, June). Age-related visual decline affects memory and neural processing speed. Poster presented at the American Federation for Aging Research Grantee Conference. Santa Barbara, CA.

- Spinks, R., Curran T., Thomas, C., Gilmore, G.C. (1999, April). Effects of simulated visual aging on recognition memory and ERP latency in young adults. Poster presented at the 5th Annual Meeting of the Cognitive Neuroscience Society. Washington, D.C.
- Tanaka, J. & Curran, T. (1999, April). Probing the time course of expertise using ERPs. Poster presented at the 5th Annual Meeting of the Cognitive Neuroscience Society. Washington, D.C.
- Schacter, D. L., Curran, T., Reiman, E. M., Chen, K., Bandy, D. J., & Frost, J. T. (1998, December). Medial temporal lobe activation during episodic encoding and retrieval: A PET study. Fourth Annual Flinn Foundation Biomedical Research Symposium. Tucson, AZ.
- Curran T. & Spinks, R. (1998, September). Cloudy vision, foggy memory, and slowing brain waves. Invited presentation at the Annual Meeting of the Ohio Affiliate of the American Federation for Aging Research. Columbus, OH.
- Curran, T. (1998, April) ERP repetition effects in recognition and lexical decision. Poster presented at the 4th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA.
- Spinks, R., Curran T., Thomas, C., Gilmore, G.C. (1998, April). Simulated visual aging slows brain waves. Poster presented at the 4th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA.
- Spinks, R.A., Curran, T., Thomas, C.W., Gilmore, G.C. (April, 1998). Simulated old eyes = Slow brains. Paper presented at the Cognition and Aging Conference, Atlanta, GA.
- Spinks, R.A., Curran, T., Thomas, C.W., Gilmore, G.C. (March, 1998). Does failing vision cause slower brains? Poster presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, SC
- Schacter, D.L., Curran, T., Galluccio, L.D., Milberg, W.(1995, March). False recognition after right frontal lobe infarction. Poster presented at the Second Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA.
- Curran, T., & Keele, S. W. (1994, March). Converging evidence for distinct sequence learning mechanisms. Invited paper presented at the Inaugural Meeting of the Cognitive Neuroscience Society. San Francisco, CA.
- McCandliss, B.D., Curran, T., & Posner, M.I. (1994, November). Exploring the time course of word recognition for identical and cross case repetitions. Poster presented at the meeting of the Psychonomic Society. St. Louis, MO.
- McCandliss, B. D., Curran, T., & Posner, M. I. (1993). Repetition effects in processing visual words: A high density ERP study of lateralized stimuli. Neuroscience Abstracts, 19, 1807.
- Hintzman, D. L., Caulton, D., & Curran, T. (1993, November). Fractionating memory retrieval. Paper presented at the meeting of the Psychonomic Society. Washington D.C.
- Curran, T., & Keele, S. W. (1992, April). Attentional and nonattentional forms of sequence learning. Paper delivered to the Western Psychological Association Convention. Portland, Oregon.
- Hintzman, D. L., & Curran, T. (1992). Registration without learning: A challenge to current models of memory. International Journal of Psychology, 27, 103. (Abstract).
- Hintzman, D.L., & Curran, T. (1992, November). Converging evidence for two processes in recognition memory. Paper presented at the meeting of the Psychonomic Society. St. Louis, MO.
- Keele, S. W., & Curran, T. (1992, January) Attentional and nonattentional forms of sequence learning. Paper presented at the Annual Meeting of the McDonnell-Pew Program in Cognitive Neuroscience. Key Biscayne, FL.
- Tucker, D. M., Chung, G., & Curran, T. (1992, July). N400 topography. Poster presented at the CERP Cognitive Event-Related Potentials Workshop. Tysons Corners, VA.
- Tucker, D. M., Chung, G., & Curran, T. (1992, June). N400 topography. Poster presented at ICON V, International Conference on Cognitive Neuroscience. Jerusalem, Israel.

- Hintzman, D. L., Caulton, D., & Curran, T. (1991, November). Do deliberate, metamemorial judgments underlie the mirror effect? Paper presented at the meeting of the Psychonomic Society. San Francisco, CA.
- Keele, S. W., & Curran, T. (1991, June). On the independence of explicit and nonattentional implicit memory for sequence. Paper presented at the 2nd Annual Recent Advances in the Analysis of Attention Conference. Davis, CA.

Invited Colloquia

- Curran, T., (2014, April). ERP studies of Familiarity and Recollection in Recognition Memory. University of Colorado Boulder Neuroscience Club.
- Curran, T., (2013, January). A timeline from perception to memory: Perspectives from event-related brain potentials (ERPs). University of Wisconsin, Milwaukee, WI.
- Curran, T. (2012, February). ERP studies of Familiarity and Recollection in Recognition Memory. Regis University, Denver, CO.
- Curran, T., (2011, September). Active Aging: Implications for Cognitive Functioning. Invited talk at the Hover Manor Senior Apartment Residence, Longmont, CO.
- Curran, T., (2007, August) ERP Explorations of the Time Course of Memory Retrieval. Invited talk at Colorado State University for the Banquet for the Research Experiences for Undergraduates Program. Fort Collins, CO.
- Curran, T., (2006, May) Human learning and memory: Perspectives from event-related brain potentials (ERPs). Invited colloquium at the University of Denver. Denver, CO.
- Curran, T., (2005, February) Human learning and memory: Perspectives from event-related brain potentials (ERPs). Invited Neuroscience colloquium at CU. Boulder, CO.
- Curran, T., (2003, November) ERP studies of recognition memory. Invited colloquium at Brandeis University. Waltham, MA.
- Curran, T., (2003, January) ERP studies of recognition memory. Invited colloquium at Vanderbilt University. Nashville, TN.
- Curran, T., (2002, November) ERP studies of recognition memory. Invited colloquium at the University of Denver. Denver, CO.
- Curran, T., (2001, October) Searching the Brain for MINERVA 2: ERP studies of recognition memory and categorization. Invited colloquium at the University of Oregon. Eugene, OR.
- Curran, T., Tanaka, J. W., & Weiskopf, D. (2001, April). ERP studies of expert object identification and exemplar recognition. Invited colloquium at Colorado State University. Fort Collins, CO.
- Curran, T., (2000, January). Brain waves of recollection and familiarity. Invited colloquium at the University of California at Davis. Davis, CA.
- Curran, T., (1999, December). Brain waves of recollection and familiarity. Invited colloquium for the Cleveland Neuropsychological Society. Cleveland, OH.
- Curran, T., (1999, October). Brain waves of recollection and familiarity. Invited colloquium at Michigan State University. East Lansing, MI.
- Curran, T., (1999, October) Brain waves of recollection and familiarity. Invited colloquium at Kent State University. Kent, OH.
- Curran T. (1998, December) Brain potentials of recognition memory. Invited colloquium at the Oberlin College. Oberlin, OH.
- Curran, T. (1997, March) The brain mechanisms of recollection and familiarity. Invited presentation to the Neuropsychology Unit of the Cleveland Clinic.
- Curran, T. (1996, May) A case study of false recognition after right frontal lobe injury. Meeting of the Cleveland Neuropsychological Society. Cleveland, OH.

Teaching Experience

2010-Present	Cognitive Neuroscience Laboratory (Undergraduate, CU)
2001-2009	Introductory Cognitive Psychology (Undergraduate, CU)
2001-Present	Proseminar on Memory (Graduate, CU)
2005	Electrophysiology of Mind and Brain (Graduate, CU)
2000	Proseminar on Visual Cognition, Memory, & Language (Graduate, CU)
1995 - 2000	Physiological Foundations of Behavior (Graduate, CWRU) Seminar in Cognitive Neuroscience (Graduate, CWRU) Physiological Psychology (Undergraduate, CWRU) Introductory Psychology (Undergraduate, CWRU)
Spring 1992	Neurobiology of Learning and Memory (Undergraduate, Oregon)
Summer 1991	Introduction to Statistical Methods for Psychology (Undergraduate, Oregon)

Professional Service

Associate Editor:

Journal of Experimental Psychology: General (2009 to present)
Memory & Cognition (2005 to 2008)

Editorial Board Member:

Journal of Experimental Psychology: Learning, Memory, and Cognition (1995 to 2004)
Journal of Experimental Psychology: General (1996 to 2000)
Memory & Cognition (1997 to 2004)
Neuropsychology (2000 to 2003)
Perspectives in Psychological Science (2005 to 2006)
Psychonomic Bulletin & Review (1998 to 2004)
Psychological Review (2004 to 2006)
Psychological Science (2003 to 2006)
Journal of Memory & Language (2001 to 2004)

Reviewed papers (ad hoc) for the following journals:

Acta Psychologica, American Journal of Psychology, Biological Psychology, Brain, Brain and Cognition, British Journal of Psychology, Cognitive Affective and Behavioral Neuroscience, Cerebral Cortex, Clinical Neurophysiology, Cognitive Brain Research, Cognitive Neuropsychology, Cognitive Psychology, Cognition, Cortex, Current Biology, Developmental Neuropsychology, Intelligence, The International Journal of Neuropsychopharmacology, Journal of Abnormal Psychology, Journal of Experimental Psychology: Human Perception and Performance, Journal of Autism and Developmental Disorders, Journal of Cognitive Neuroscience, Journal of Neuroscience, Learning and Memory, Memory, Nature, Neurobiology of Learning and Memory, NeuroImage, Neuropsychologia, Neuroscience Research, PNAS, Psyche, Psychological Research, Psychological Review, Psychology and Aging, Psychophysiology, Quarterly Journal of Experimental Psychology, Stress, Trends in Cognitive Sciences

Ad hoc Grant Reviewing:

NIH - Cognition and Perception Study Section, 2003
NIH - Integrative, Functional and Cognitive Neuroscience Study Section, 1998
NSF - Human Cognition and Perception Division, 97, 98, 99, 00, 01, 02, 04, 05, 06, 2010, 2011
NSF - Cognitive Neuroscience Division, 2008-2012
NIMH - Perception & Cognition, 1998
University of Michigan, 2002
Scottish Rite Schizophrenia Research Program, 1997

Fellow, Association for Psychological Science, 2009
 CU Department of Psychology and Neuroscience Faculty Service Award, 2014

Special Training

1992 McDonnell Summer Institute in Cognitive Neuroscience
 Dartmouth College and Medical School
 Sensory-Motor Integration and Neural Development.

Professional Affiliation

Association for Psychological Science, Fellow
 Cognitive Neuroscience Society
 Psychonomic Society
 Society for Neuroscience

Previous Research Experience

1990 Graduate Research Fellow

-1993 Department of Psychology
 University of Oregon
 Supervisor: Douglas L. Hintzman, Ph.D.
 Topic: Cognitive Studies of Human Memory

1990 Research Assistant

-1993 Brain Electrophysiology Laboratory
 Department of Psychology
 University of Oregon
 Supervisors: Don M. Tucker, Ph.D.
 Michael I Posner, Ph.D.
 Topic: ERP studies of word processing and priming.

1990 Graduate Research Fellow

McDonnell-Pew Center for the Cognitive Neuroscience of Attention.
 Department of Psychology
 University of Oregon
 Supervisor: Steven W. Keele, Ph.D.
 Topic: Implicit sequence learning.

1988 Research Assistant (Full-time, paid)

-1989 Department of Psychology
 University of Wisconsin
 Supervisors: Loren J. Chapman, Ph.D.
 Jean P. Chapman, Ph.D.
 Topic: Schizophrenic cognition and associated measurement problems.

1987 Undergraduate Research Assistant

-1988 Department of Psychology
 University of Wisconsin
 Supervisor: Arthur M. Glenberg, Ph.D.
 Topic: Temporal Coding in Memory

1986 Undergraduate Research Assistant

-1987 Department of Psychology

University of Wisconsin

Supervisor: John Theios, Ph.D.

Topic: Dual Coding vs. Abstract Memorial Representations