

CURRICULUM VITAE

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Positions and Academic History:

- 2006- Temple University, Philadelphia, PA
Assistant Professor, Department of Psychology
- 2006- Princeton University, Princeton, NJ
Visiting Researcher
- 2004-2005 Princeton University, Princeton, NJ
Postdoctoral Fellow, Center for the Study of Brain, Mind, & Behavior
- 2001-2004 Univ. of Pittsburgh, Pittsburgh, PA
Ph.D., Cognitive Psychology
Center for the Neural Basis of Cognition (Carnegie Mellon Univ./ Univ. of Pittsburgh)
Dissertation: *Evaluating alternative models of working memory with neuroimaging*
- 2002 Chatham College, Pittsburgh, PA
Adjunct Faculty Member, Department of Biology
- 1997-2001 University of Pittsburgh, Pittsburgh, PA
M.S., Cognitive Psychology
Center for the Neural Basis of Cognition (Carnegie Mellon Univ./ Univ. of Pittsburgh)
Thesis: *Evidence of a domain general learning network: An FMRI investigation with verbal and nonverbal paired-associates*
- 1992-1997 Temple University, Philadelphia, PA
B.A., (Summa Cum Laude)
Majors in Psychology & Computer Science, minor in Cognitive Neuroscience

Fellowships, Awards, and Honors:

- 2001 Tim Post Award For Research Excellence (University of Pittsburgh)
- 2001 Temple University Alumni Gallery of Success (Temple University)
- 2000 Trainee Travel Award, Organization for Human Brain Mapping
- 1998 Center for the Neural Basis of Cognition Fellowship (National Science Foundation)
- 1998 National Science Foundation Graduate Student Fellowship, Honorable Mention
- 1997 College of Arts & Sciences Graduation Ceremony Speaker (Temple University)
- 1997 President's Scholar (Temple University)
- 1997 Phi Beta Kappa National Honor Society
- 1997 General Alumni Award For Academic Achievement (Temple University)
- 1997 Clifford M. Klinger Scholarship For Outstanding Work In Psychology (Temple University)
- 1996 Jerry Zaslow Award For Achievement in Academics and Service (Temple University)

Professional Memberships:

1997- Cognitive Neuroscience Society
1997- Society for Neuroscience
2006- American Psychological Association

Teaching Experience:

Courses Taught:

2006 Topical Seminar on Functional Magnetic Resonance Imaging (Temple University, graduate)
2006 Foundations in Cognitive Psychology (Temple University, undergraduate)
2002 Psychology Research Methods Laboratory (University of Pittsburgh, undergraduate)
2002 Functional & Clinical Neuroanatomy (Chatham College, graduate)
1999-2000 Systems Neuroanatomy (Teaching Fellow, Univ. of Pittsburgh, graduate)
1998 Introduction to Psychology (Teaching Assistant, University of Pittsburgh, undergraduate)
1996, 1997 Freshman Skills Seminar (Co-instructor, Temple University, undergraduate)

Invited & Guest Lectures:

2004 “Neuroimaging and Prefrontal Function”, *Princeton Univ. Imaging Group* (Princeton)
2001 “Learning and Memory”, *Introduction to Cognitive Neuroscience* (Univ. of Pittsburgh)
2001, 2002 “Effective fMRI Design”, *Pittsburgh Functional Imaging Workshop* (Pittsburgh, PA)
1997 “The Interface Between Computer Science and Psychology” (SW China Normal Univ.)

Ad-Hoc Journal Reviews:

Cognitive Brain Research
Journal of Cognitive Neuroscience
Nature Neuroscience
Neuroimage
Psychological Review
Psychonomic Bulletin and Review

Peer-Reviewed Publications:

Chein, J.M. & Schneider, W. (2005). Neuroimaging studies of practice-related change: fMRI and meta-analytic evidence of a domain-general control network for learning. *Cognitive Brain Research*, 25(3), 607-623.

Ravizza, S.M., Delgado, M.R., Chein, J.M., Becker, J.T., & Fiez, J.A. (2004). Functional dissociations within the inferior parietal cortex in verbal working memory. *Neuroimage*, 22(2), 562-573.

Chein, J.M., Ravizza, S.M., & Fiez, J.A. (2003). Using neuroimaging to evaluate alternative models of working memory and their implications for language processing. *Journal of Neurolinguistics*, 16(4-5), 315-339.

Schneider, W. & Chein, J.M. (2003). Controlled and automatic processing: Behavior, theory, & biology. *Cognitive Science*, 27, 525-559.

Chein, J.M., Fissell, K., Jacobs, S., & Fiez, J.A. (2002). Functional heterogeneity within Broca's area during verbal working memory. *Physiology & Behavior*, 77, 635-639.

Chein, J.M. & Fiez, J.A. (2001). Dissociation of verbal working memory system components using a delayed serial recall task. *Cerebral Cortex*, 11(11), 1003-1014.

Book Chapters:

Moscovitch, M., Chein, J., & Talmi, D. Learning, Memory, & Knowledge. In *Cognition, Brain, & Consciousness*. B. Baars (Ed.). Elsevier Science, Amsterdam.

Chein, J.M. & Schneider, W. (2003). Designing effective fMRI experiments. In *The Handbook of Neuropsychology*, Vol. 9. J. Grafman and I. Robertson (Eds.). Elsevier Science, Amsterdam.

Chein, J.M., St. James, J.D., & Schneider, W. (2005). Working memory and fMRI. In *PsychMate: A Student Guide to Experimental Psychology*. J. St. James and W. Schneider (Eds.). PST, Pittsburgh.

Manuscripts in Preparation:

Chein, J.M., & Fiez, J.A. (in preparation). Evaluating models of working memory: fMRI and behavioral evidence on the effects of concurrent irrelevant information.

Schneider, W., Chein, J., McHugo, M., & Hill, N. (in preparation). The unique contributions of executive, decision-making, and attentional systems to cognitive control.

Chein, J.M., McHugo, M., & Schneider, W. (in preparation). The transition from controlled to automatic processing in simple search tasks as revealed with fMRI.

Guidicche, S., Chein, J.M., Durisko, C., Faber, B., & Fiez, J.A. (in preparation). Re-articulating the phonological similarity effect.

Abstracts and Presentations:

Lenartowicz, A., Detre, G., Polyn, S., Chein, J., et al. (2005). Characterization of brain states during task-switching using a neural network classifier. Poster abstract presented at the 12th annual meeting of the Cognitive Neuroscience Society, New York.

Guedicche, S., Chein, J., Fiez, J. (2005). Dissociating articulatory and phonemic contributions to the "phonological" similarity effect. Poster abstract presented at the 12th annual meeting of the Cognitive Neuroscience Society, New York.

Schneider, W., Hill, N., Chein, J., McHugo M., Cole, M. (2004). Systems supporting attention, decision-making, learning, & skilled performance. Presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN.

Chein, J.M. & Fiez, J.A. (2004). Anatomical and temporal dissociations of articulatory suppression, irrelevant speech, and irrelevant non-speech effects in working memory. Poster abstract presented at the 11th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Schneider, W., Chein, J., & McHugo, M. (2003). CAP3: A Model of Automatic/Controlled Processing in the Brain. Presented at the 44th annual meeting of the Psychonomic Society, Vancouver, BC.

Schneider, W. & Chein, J. (2003). Cortical network support for control processing and the development of automaticity. Published in special issue of *Neuroimage* for the 9th annual Human Brain Mapping conference, New York.

Chein, J. & Schneider, W. (2003). An fMRI investigation of the role of domain-general cognitive resources in the transition from controlled to automatic processing. Poster abstract presented at the 10th annual meeting of the Cognitive Neuroscience Society, New York.

Schneider, W. & Chein, J. (2002). Automaticity and Domain-General Learning in Cortical Networks. Presented at the 43rd annual meeting of the Psychonomic Society, Kansas City.

Drobyshevsky, A., Baumann, S., Ruth, R., Chein, J., & Schneider, W. (2002). Normative data from an fMRI cognitive task battery. Published in special issue of *Neuroimage* for the 8th annual Human Brain Mapping conference, Sendai, Japan.

Donavos, D.K., Chein, J.M., & Fiez, J.A. (2002). Links between verbal working memory, concurrent articulation effects, and the cerebellum: Converging fMRI and behavioral studies. Poster abstract presented at the 9th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Ravizza, S.M., Becker, J.T., Delgado, M.R., Chein, J.M., & Fiez, J.A. (2002). Contribution of the inferior parietal cortex to verbal working memory. Poster abstract presented at the 10th annual meeting of the Cognitive Neuroscience Society, San Francisco.

Chein, J.M., Fissell, K., Jacobs, S., & Fiez, J.A. (2001). Functionally distinct subdivisions within Broca's area during verbal working memory: Results from a novel method for meta-analysis of neuroimaging studies. Published abstracts of the 31st annual meeting of the Society for Neuroscience, San Diego.

Schneider, W. & Chein, J. (2001). Using an fMRI task battery to rapidly produce functional markers. Published in special issue of *Neuroimage* for the 7th annual Human Brain Mapping conference, Brighton, England.

Chein, J. & Schneider, W. (2001). Corresponding learning-related changes in brain activity associated with verbal and nonverbal versions of a paired-associate task. Poster abstract presented at the 8th annual meeting of the Cognitive Neuroscience Society, New York.

Wheeler, E.Z., Chein, J.M., Schneider, W. (2001). Functional magnetic resonance imaging of the role of feedback in learning. Poster abstract presented at the 8th annual meeting of the Cognitive Neuroscience Society, New York.

Fiez, J.A., Liu, Y., Derby, L., Chein, J., & Perfetti, C.A. (2001) Exploring domain-specific processes in working memory through manipulation of homophone status in the Chinese language. Poster abstract presented at the 8th annual meeting of the Cognitive Neuroscience Society, New York.

Chein, J. & Schneider, W. (2000). An fMRI investigation of a common learning network: A test with verbal and nonverbal paired associates. Published in special issue of *Neuroimage* for the 6th annual Human Brain Mapping conference, San Antonio.

Chein, J.M. & Fiez, J.A. (2000). Differential Effects of Stimulus Manipulation in the N-back and Delayed Serial Recall Working Memory Tasks. Published in special issue of *Neuroimage* for the 6th annual Human Brain Mapping conference, San Antonio.

Chein, J., Smith, T., & Schneider, W. (1999). Functional specialization in a domain independent learning network investigated with fMRI. Poster abstract presented at the 1999 annual meeting of the Cognitive Neuroscience Society, Washington DC.

MacDonald, A.W. III, Perlstein, W.M., Chein, J.M., Fiez, J.A., Noll, D.C., & Carter, C.S. (1999). An fMRI study of individual differences in working memory capacity in the N-back task. Poster abstract presented at the 6th annual meeting of the Cognitive Neuroscience Society, Washington DC.

Chein, J.M. & Fiez, J.A. (1999). An fMRI study characterizing the neural basis of verbal working memory with a delayed serial recall task. Published abstracts of the 29th annual meeting of the Society for Neuroscience, Miami Beach.

Chein, J.M., Noll, D.C., Cohen, J.D., Fissell, K., Nystrom, L.E., Sabb, F., & Fiez, J.A. (1998). An fMRI study of verbal working memory: Effects of length, lexicality, and phonological similarity. Published abstracts of the 28th annual meeting of the Society for Neuroscience, Los Angeles.

Schneider, W., Chein, J., Smith, T., & Shrager, J. (1998). FMRI of domain general learning. Published abstracts of the 28th annual meeting of the Society for Neuroscience, Los Angeles.