Curriculum Vitae

Robert G. Morrison

February 8, 2012

Work Address:	Loyola University Chicago Department of Psychology 1032 W Sheridan Rd Chicago IL 60660
Home Address:	1317 W Greenleaf Ave Chicago IL 60626
Phone: *Fax:*	(312) 646-0843 (312) 896-9154
E-mail: *Website:*	rmorrison@luc.edu canlab.org
eRA Commons: pubmed:	RGMORRISON MORRISON RG

A. Background

Education:

Northwestern University	Post-Doc	2007-2009	Scalp Electroencephalography
University of California, Los Angeles	PhD	2004	Cognitive Neuroscience
University of California, Los Angeles	MA	2000	Cognitive Psychology
Cleveland State University	MA	1998	Experimental Psychology
Wheaton College	BS	1988	Chemistry, Biology minor

Positions Held:

2010-present	Graduate Faculty, Stritch School of Medicine, Maywood IL
2010-present	Member, Neuroscience Institute, Stritch School of Medicine, Maywood IL
2009-present	Graduate Faculty, School of Arts and Sciences, Loyola University Chicago
2009-present	Assistant Professor of Psychology, Loyola University Chicago, Chicago IL
2007-2009	Post-Doctoral Fellow, Psychology Department, Northwestern University, Evanston IL
2007-2008	Adjunct Professor, School of the Art Institute, Chicago IL
2003-2007	Executive Director and Project Producer, Xunesis, Chicago, IL
2002-2007	Research Consultant, Medantics Technology, Salt Lake City Utah
1993-1998	Artist & Director, Studio Theia, Cleveland OH
1991-1994	Group Leader, Basic Research, Day-Glo Color Corp., Cleveland OH
1989-1991	Senior Chemist, Corporate Research, Nalco Chemical Co., Naperville IL
1988-1989	Research Technician, Neurology Department, Northwestern University Chicago, IL

Awards & Honors

Nominated for the Sujack Award for Teaching Excellence, College of Arts and Science, Loyola University Chicago

Keynote Address 2012 Chicago Area Undergraduate Research Symposium -- www.caurs.com

Travel Fellowship from the Alzheimer's Association to attend the International Conference on Alzheimer's Disease and Imaging Consortium, Paris France (2011)

Loyola Undergraduate Research Opportunities Program Distinguished Mentor Award, Honorable Mention (2011)

Fellowship from the National Institute of Mental Health for the Yearly Workshop in the Event-Related Potential Technique at University of California, Davis (1R25MH080794-01 Steve Luck PI; 2008)

National Research Service Award from the National Institute of Aging to study Mechanisms of Aging and Dementia (T32AG020506, John Disterhoft PI; 2007- 2009)

Individual National Research Service Award from the National Institute of Mental Health to study Working Memory and Inhibition in Analogical Reasoning (Individual Award F31MH064244-01A1; 2002-2004)

National Research Service Award from the National Institute of Mental Health to study Developmental Cognitive Science (Training Grant T32MH019926-05; Rochel Gelman PI; 1999-2000)

Support

IDPH, Alzheimer's Disease Research Fund Grant 1/1/2012-12/31/2012 $34,958
Electrophysiology of category learning in Alzheimer's Disease
Role: Principal Investigator

Loyola University Summer Stipend 6/1/2012-8/15/2012 $7,000
Electrophysiology of Category Learning in Super Agers
Role: Principal Investigator

Rosalinde and Arthur Gilbert Foundation 7/1/2011-6/30/2013 $99,988
American Federation of Aging Research/New Investigator in Alzheimer's Disease Award
Electrophysiology of Category Learning in Mild Cognitive Impairment
Role: Principal Investigator

Loyola Undergraduate Research Opportunities Program 9/1/2011-4/30/2012 $1,900
Provost Fellowship: Nirav Patel – student
The Role of Inhibition in Determining Political Ideology
Role: Sponsor

Loyola Undergraduate Research Opportunities Program 5/15/2011-8/30/2011 $1,500
Provost Fellowship: Miraj Chokshi – student
Neurocorrelates of Relational and Featural Similarity Processing
Role: Sponsor

Loyola Undergraduate Research Opportunities Program 5/15/2011-8/30/2011 $1,900
Provost Fellowship: Matt Kmiecik – student
Electrophysiology of Verbal Analogical Reasoning
Role: Sponsor

Loyola University, Multidisciplinary Development Grant 7/1/2011-6/30/2012 $25,000
Is political ideology hardwired? Testing political variables in the brain
Role: co-Principal Investigator

Loyola Undergraduate Research Opportunities Program 9/1/2010-5/1/2011 $2,000
Provost Fellowship: Miraj Chokshi – student
The Effect of Personal Perceived Power on Reasoning Strategy Selection
Role: Sponsor

Carbon Undergraduate Research Fellowship Program 9/1/2010-5/1/2012 $15,000

Carbon Fellowship: Brian Sweis – student
The Behavioral and Neurochemical Analysis of the Effects of Chronic Stress on Mental Health
Role: Co-sponsor

IDPH, Alzheimer's Disease Research Fund Grant 10/1/2009-9/30/2010 $30,000
Electrophysiology of category learning in Alzheimer's Disease
Role: Principal Investigator

NIA, Northwestern Alzheimer's Disease Core Center 10/1/2009-9/30/2010 $28,000
Electrophysiological of Category Learning in Patients with Mild Cognitive Impairment
Role: Principal Investigator; Awarded and then unfunded because of institution change

SBIR OSD03-DH07 ONR, Gregory Thompson (PI) 2006-2007
Medical Training for Force Mobilization and Disaster Response
Role: Consultant

SBIR OSD01-CR11 ONR, Gregory Thompson (PI) 2002-2004
An Intelligent System for Case-Based Instruction
Role: Consultant

Memberships in Professional Organizations:
Association for Psychological Science
Cognitive Development Society
Cognitive Neuroscience Society
Cognitive Science Society
Psychonomic Society, Associate
Society for Neuroscience

B. Publications

Morrison, R.G. (in press). Analogical reasoning: Models of development. In H. Pashler (Ed.), *Encyclopedia of the mind*. Thousand Oaks, CA: Sage Publications.

Morrison, R. G. (in press). Problem solving. In M. Aminoff & R. Daroff (Eds.), *The encyclopedia of the neurological sciences (2nd Edition)*. San Diego: Academic Press.

Holyoak, K.J., & **Morrison, R.G.** (Eds.) (2012). *Oxford Handbook of Thinking and Reasoning*. New York, NY: Oxford University Press.

Holyoak, K.J., & **Morrison, R.G.** (2012). Thinking and reasoning: A reader's guide. In K.J. Holyoak & **R.G. Morrison** (Eds.), *Oxford Handbook of Thinking and Reasoning.* New York: Oxford University Press.

Morrison, R.G., & Knowlton, B.J. (2012). Cognitive neuroscience of higher cognition. In K.J. Holyoak & **R.G. Morrison** (Eds.), *Oxford Handbook of Thinking and Reasoning.* New York: Oxford University Press.

Morrison, R.G., Doumas, L.A.A., & Richland, L.E. (2011). A computational account of children's analogical reasoning: Balancing inhibitory control in working memory and relational representation. *Developmental Science, 14*(3), 516-529. doi:10.1111/j.1467-7687.2010.00999.x

Richland L.E., Chan, T-K., **Morrison, R.G.,** & Au, T.K-F. (2010). Young children's analogical reasoning across cultures: Similarities and differences. *Journal of Experimental Child Psychology, 105,* 146-153.

Richland, L.E., & **Morrison, R.G.** (2010). Is analogical reasoning just another measure of executive functioning? *Frontiers in Human Neuroscience, 4*, 180.

Morrison, R.G., & Cho, S. (2008). Neurocognitive process constraints on analogy: What changes to allow children to reason like adults? *Behavioral and Brain Sciences*, *31,* 391-392. PMID: 18662450

Krawczyk, D. C., **Morrison, R. G.**, Viskontas, I., Holyoak, K. J., Chow, T. W., Mendez, M., Miller, B.L., & Knowlton, B. J. (2008). Distraction during relational reasoning: The role of prefrontal cortex in interference control. *Neuropsychologia, 46,* 2020-2032. PMID: 18355881

Lu, H., **Morrison, R.G.**, Hummel, J.E., & Holyoak, K.J. (2006). Role of gamma-band synchronization in priming of form discrimination for multi-object displays. *Journal of Experimental Psychology: Human Perception and Performance, 32,* 610-617. PMID: 16822127

Richland, L.E., **Morrison, R.G.**, & Holyoak, K.J. (2006). Children's development of analogical reasoning: Insights from scene analogy problems. *Journal of Experimental Child Psychology*, *94*, 249–273. PMID: 16620867

Morrison, R.G. (2005). Thinking in working memory. In K.J. Holyoak & R.G. Morrison (Eds.), *Cambridge Handbook of Thinking and Reasoning* (pp. 457-473). New York, NY: Cambridge University Press.

Holyoak, K.J., & **Morrison, R.G.** (2005). Thinking and reasoning: A readers guide. In K.J. Holyoak & R.G. Morrison (Eds.), *Cambridge Handbook of Thinking and Reasoning*. (pp. 1-9). New York, NY: Cambridge University Press.

Holyoak, K.J., & **Morrison, R.G.** (Eds.) (2005). *Cambridge Handbook of Thinking and Reasoning*. New York, NY: Cambridge University Press.

Morrison, R.G., Krawczyk, D., Holyoak, K.J., Hummel, J.E., Chow, T., Miller, B., & Knowlton, B.J. (2004). A neurocomputational model of analogical reasoning and its breakdown in frontotemporal lobar degeneration. *Journal of Cognitive Neuroscience, 16,* 260-271. doi:10.1162/089892904322984553

Viskontas, I.V., **Morrison, R.G.**, Holyoak, K.J., Hummel, J.E., & Knowlton, B.J., (2004) Relational integration, inhibition and analogical reasoning in older adults. *Psychology and Aging, 19,* 581-591. doi:10.1037/0882-7974.19.4.581

Morrison, R. G., & Holyoak, K. J. (2003). Problem solving. In M. Aminoff & R. Daroff (Eds.), *The encyclopedia of the neurological sciences* (Vol. 1, pp. 60-62). San Diego: Academic Press.

Morrison, R.G., & Wallace, B. (2001). Imagery vividness, creativity, and the visual arts. *Journal of Mental Imagery, 25,* 135-152.

Spellman, B.A., Holyoak, K.J., & **Morrison, R.G.** (2001). Analogical priming via semantic relations. *Memory & Cognition, 29,* 383-393. PMID: 11407415

C. Conference Proceedings

Morrison, R.G., Bharani, K., Chihade, D., Nuechterlein, K., Weintraub, S., Reber, P.J., & Paller, K.A. (2011). Category learning brain potentials as neurocognitive markers for pathologic aging. *Alzheimer's & Dementia, 7*(4), S32-33.

Morrison, R.G., Bharani, K., Chihade, D., Nuechterlein, K., Weintraub, S., Reber, P.J., & Paller, K.A. (2011). Category learning brain potentials as neurocognitive markers for pathologic aging. *Alzheimer's & Dementia, 7*(4), S216.

Doumas, L. A. A., **Morrison, R. G.**, & Richland, L. E. (2010). Differences in development of analogy across cultures: A computational account. *Proceedings of the Thirty-Second Annual Conference of the Cognitive Science Society*.

Doumas, L.A.A., **Morrison, R.G.,** & Richland, L.E. (2009). The development of analogy: Task learning and individual differences. *Proceedings of the Thirty-First Annual Conference of the Cognitive Science Society* (pp. 3133-3138). Mahwah, NJ: Erlbaum.

Morrison, R.G., Reber, P., & Paller, K.A. (2009). Dissociation of category-learning mechanisms via brain potentials. *Proceedings of the Thirty-First Annual Conference of the Cognitive Science Society* (pp. 3076-3081). Mahwah, NJ: Erlbaum.

Morrison, R.G., Doumas, L.A.A., & Richland, L.E. (2006). The development of analogical reasoning in children: A computational account. *Proceedings of the Twenty-eighth Annual Conference of the Cognitive Science Society* (pp. 603-608). Mahwah, NJ: Erlbaum.

Thompson, G., **Morrison, R.G.**, Holyoak, K.J., & Clark, T.K. (2006). Evaluation of an online analogical patient simulation program. *Proceedings of the Nineteenth IEEE International Symposium on Computer-Based Medical Systems* (pp. 623-628). Los Alamitos, CA: IEEE Computer Society.

Richland, L.E., **Morrison, R.G.**, & Holyoak, K.J. (2004). Developmental Change in Analogical Reasoning: Evidence from a Picture-Mapping Task. *Proceedings of the Twenty-seventh Annual Conference of the Cognitive Science Society* (pp. 1149-1154). Mahwah, NJ: Erlbaum.

Morrison, R.G., Krawczyk, D., Knowlton, B.J., Holyoak, K.J., Boone, K.B., Chow, T., & Mishkin, F.S. (2001). Relational reasoning and semantic inhibition in human prefrontal cortex. *Brain & Cognition, 47,* 292-296.

Morrison, R.G., Holyoak, K.J., & Truong, B. (2001). Working memory modularity in analogical reasoning. *Proceedings of the Twenty-fourth Annual Conference of the Cognitive Science Society* (pp. 663-668). Mahwah, NJ: Erlbaum.

Morrison, R.G., Holyoak, K.J., & Spellman, B.A. (2000). Analogical priming in a word naming task. *Proceedings of the Twenty-second Annual Conference of the Cognitive Science Society* (pp. 1045). Mahwah, NJ: Erlbaum.

D. Manuscripts under Review

Doumas, L.A.A., **Morrison, R.G.,** & Richland, L.E. (2012). *Individual differences in relational learning and analogical reasoning over time: A computational approach.* Manuscript under review.

Sweis, B.M., Bharani, K.L. & **Morrison, R.G.** (2012). *The time course of inhibition in analogical reasoning: An event-related potential approach.* Manuscript under review.

E. Manuscripts in Preparation

Bharani, K., Paller, K.A., Reber, P.J., Weintraub, S., & **Morrison, R.G.** (2012). *Electrophysiology of rule-based category learning as a function of age.* Manuscript in preparation.

Knowlton, B.J., **Morrison, R.G.,** Hummel, J.E., & Holyoak, K.J. (2012). *Toward a neural system for relational reasoning.* Manuscript invited for submission to *Trends in Cognitive Science*.

Morrison, R.G., Nikitin, V., & Bharani, K.L. (2012). *Neurocorrelates of analogical mapping: An event-related potential approach..* Manuscript in preparation.

Morrison, R.G., Bharani, K., Reber, P., & Paller, K.A. (2012). *Neural dissociations in category learning: An electrophysiological approach.* Manuscript in preparation.

Educational Media

Morrison, R.G. (Producer), & Bergman, C.E. (Director). (2005). *Retrieval: A journey into memory* [Motion Picture]. United States: Xunesis. http://www.xunesis.org/Retrieval.html

Morrison, R.G. (Producer/Director), & Ray, R. (co-Producer). (2006). *Virtual Lab Tours: Volume 1* [CD-ROM]. United States: Xunesis.

G. Conference Presentations

Doumas, A., **Morrison, R.G.,** & Richland, L.E. (2012, August). *Computational perspectives on the role of comparison in structure learning: Developmental, learning science, and computational perspectives.* Symposium proposal for the 34th Annual Cognitive Science Society, Sapporo, Japan.

Sweis, B.M., Bharani, K.L. & **Morrison, R.G.** (2012, August). *The time course of inhibition in analogical reasoning: An event-related potential approach.* Paper submitted for the 34th Annual Cognitive Science Society, Sapporo, Japan.

Wendell, D.G., Matland, R.E., & **Morrison, R.G.** (2012, August). *Inhibitory response in the political brain.* Paper proposal submitted for annual meeting of American Political Science Association. New Orleans, LA.

Morrison, R.G., (2012, July). *Processing dynamics in analogical reasoning: Developmental, neuropsychological, neuroimaging, and computational evidence.* Talk to be presented at the 6th International Conference on Thinking, London, England.

Morrison, R.G., (2012, July). *Analogical reasoning*. Symposium organized for the 6th International Conference on Thinking, London, England.

Wendell, D.G., Matland, R.E., & **Morrison, R.G.** (2012, July). *Using electroencephalography to measure inhibition in political ideologues.* Paper proposal submitted for annual meeting of International Society of Political Psychology. Chicago, IL.

Wendell, D.G., Matland, R.E., & **Morrison, R.G.** (2012, April). *Neural correlates of political ideology and self-regulation.* Paper to be presented at annual meeting of Midwest Political Science Association. Chicago, IL.

Hare, S., Molony, J., McCarthy, S., Brandstatt, K., Skiadopoulos, L., Bharani, K.L. & **Morrison, R.G.** (2012, March). *Insight follows incubation in the Remote Associates Test.* Poster accepted for the Cognitive Neuroscience Society Annual Meeting, Chicago IL.

Morrison, R.G., Kmiecik, M., & Bharani, K.L. (2012, April). *When analogy is like priming: The N400 in verbal analogical reasoning.* Poster accepted for the Cognitive Neuroscience Society Annual Meeting, Chicago IL.

Sweis, B.M., Bharani, K.L. & **Morrison, R.G.** (2012, April). *Relational complexity and relational distraction modulate response-locked event-related potentials in analogical reasoning.* Poster accepted for the Cognitive Neuroscience Society Annual Meeting, Chicago IL.

Bharani, K., Weintraub, S., Reber, P.J., Paller, K.A., & **Morrison, R.G.,** (2012, March). *Category learning brain potentials as neurocognitive markers for pathologic aging.* Poster to be presented at the Chicago Area Undergraduate Research Symposium, Chicago, IL.

Molony, J., Brandstatt, K., Skiadopoulos, L., Hare, S., McCarthy, S., Bharani, K.L. & **Morrison, R.G.** (2012, March). *Insight follows incubation in the Remote Associates Test.* Poster to be presented at the Chicago Area Undergraduate Research Symposium, Chicago, IL.

Kmiecik, M., **Morrison, R.G.**, & Bharani, K.L. (2012, March). *When analogy is like priming: The N400 in verbal analogical reasoning.* Poster to be presented at the Chicago Area Undergraduate Research Symposium, Chicago, IL.

Sweis, B.M., Veverka, K.K., Bawa, G.S., Dhillon, E.S., **Morrison, R.G.,** Lucas, L.R. (2012, March). *Individual differences in the effects of chronic stress on memory: Neuropeptide Y and anxiety as biobehavioral correlates of resiliency.* Poster to be presented at the Chicago Area Undergraduate Research Symposium, Chicago, IL.

Sweis, B.M, Bawa, G.S., Veverka, K.K., Dhillon, E.S., **Morrison, R.G.,** & Lucas, L.R. (2011, October). *Repeated stress impairs or enhances spatial memory depending on individual coping differences in stress reactivity and anxiety*. Poster presented at the Society for Neuroscience Annual Meeting, Washington D.C.

Morrison, R.G., Doumas, L.A.A., Flores, V. & Richland, L.E. (2011, October). *Individual differences in executive functions explain longitudinal development trends In analogical reasoning*. *Poster presented at the Cognitive Development Society*. Philadelphia, PA.

Morrison, R.G., Bharani, K., Chihade, D., Nuechterlein, K., Weintraub, S., Reber, P.J., & Paller, K.A. (2011, July). *Category learning brain potentials as neurocognitive markers for pathologic aging.* Poster presented at the Alzheimer's Imaging Consortium, Paris, France.

Morrison, R.G., Bharani, K., Chihade, D., Nuechterlein, K., Weintraub, S., Reber, P.J., & Paller, K.A. (2011, July). *Category learning brain potentials as neurocognitive markers for pathologic aging.* Poster presented at the International Conference on Alzheimer's Disease, Paris, France.

Bharani, K., Chihade, D., Nuechterlein, K., Weintraub, S., Paller, K.A., Reber, P.J., & **Morrison, R.G.** (2011, April). *Electrophysiology of rule-based category learning as a function of age.* Abstract presented at the 17th Annual Alzheimer Day at Northwestern University's Cognitive Neurology and Alzheimer's Disease Center, Chicago, IL.

Bharani, K., Chihade, D., Nuechterlein, K., Weintraub, S., Paller, K.A., Reber, P.J., & **Morrison, R.G.** (2011, April). *Electrophysiology of rule-based category learning as a function of age.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Nikitin, S., & **Morrison, R.G.** (2011, April). *Analogical Reasoning in Human Prefrontal Cortex: An Event-Related Potential Approach.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Richland, L. E., **Morrison, R. G.**, & Doumas, L. A. A. (2011, March). *Executive functioning in children's analogical reasoning.* Paper presented at the Society for Research in Child Development. Montreal, Canada.

Doumas, L. A. A., **Morrison, R. G.**, & Richland, L. E. (2010, August). *Differences in development of analogy across cultures: A computational account.* Poster presented at the Thirty-Second Annual Conference of the Cognitive Science Society. Portland, Oregon.

Morrison, R.G., Lucas H., Florczak, S., James, M., Wingo, J., & Paller, K.A. (2010, April). *Brain Potentials Reflect Changes in Memory with Age.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, Montreal, Canada.

Morrison, R.G., Reber, P., & Paller, K.A. (2009, October). *Brain potentials dissociate category-learning mechanisms.* Poster presented at the Society for Neuroscience, Chicago, IL.

Doumas, L.A.A., **Morrison, R.G.,** & Richland, L.E. (2009). *The development of analogy: Task learning and individual differences. Poster presented at the Thirty-First Annual Conference of the Cognitive Science Society*. Amsterdam, Netherlands.

Morrison, R.G., Reber, P., & Paller, K.A. (2009). Dissociation of category-learning mechanisms via brain potentials. *Poster presented at the Thirty-First Annual Conference of the Cognitive Science Society*. Amsterdam, Netherlands.

Morrison, R.G. (2009, July). *Implementing analogy in the brain: A computational approach to Neuropsychological Results.* Talk presented at the 2nd International Analogy Conference, Central and East European Center for Cognitive Science, New Bulgarian University, Sofia, Bulgaria.

Richland, L.E., Doumas, L.A.A., & **Morrison, R.G.** (2009, July). *Implementing.* Talk presented at the 2nd International Analogy Conference, Central and East European Center for Cognitive Science, New Bulgarian University, Sofia, Bulgaria.

Morrison, R.G., Reber, P., & Paller, K.A. (2009, April). *Electrophysiological decomposition of category-learning mechanisms.* Poster accepted for presentation at the Fifteenth International Congress on Event-Related Potentials of the Brain, Bloomington, Indiana.

Morrison, R.G., Reber, P., & Paller, K.A. (2009, March). *Electrophysiological dissociation of category learning mechanisms.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, California

Morrison, R.G., & Reber, P.J., & Paller, K.A. (2008, November). Neurophysiological dissociation of rule-based and information integration category learning mechanisms. Poster presented at the 49th Annual Meeting of the Psychonomic Society, Chicago, IL.

Doumas, L.A.A., & **Morrison, R.G.**, & Richland, L.E. (2008, November). A computational account of the development of structured thought. Poster presented at the 49th Annual Meeting of the Psychonomic Society, Chicago, IL.

Thompson, G., **Morrison, R.G.**, Milne, C. & Holyoak, K.J. (2008, July). *Multi-faceted E-learning: Comparison of methods study #2.* Poster and Talk presented at the International Association of Medical Science Educators, Salt Lake City, UT.

Morrison, R.G., Reber, P., & Paller, K.A. (2008, May). *Using event-related potentials to dissociate category-learning mechanisms.* Poster presented at the Association for Psychological Science 20th Annual Convention, Chicago, IL.

Morrison, R.G., Reber, P., & Paller, K.A. (2008, May). *Dissociation of rule-based and information integration category learning: An event-related potential approach*. Poster presented at the Cognitive Neurology & Alzheimer's Disease Center's Alzheimer's Day Poster Session, Chicago, IL.

Morrison, R.G., Reber, P., & Paller, K.A. (2008, April). *Dissociation of rule-based and implicit category learning: An electrophysiological approach.* Poster presented at the Cognitive Neuroscience Society, San Francisco, California.

Doumas, L.A.A., & **Morrison, R.G.** (2007, November). *Modeling process differences in implicit and explicit category learning: A symbolic-connectionist approach.* Poster presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach, California.

Morrison, R.G., Doumas, L.A.A., & Richland, L. (2007, November). *Cross Cultural Cognitive Differences in Analogical Reasoning: A Computational Account.* Poster presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach, California.

Morrison, R.G., Doumas, L.A.A., & Richland, L. (2007, November). *Inhibition vs. Relational Knowledge constraints in Children's Analogical Reasoning: A symbolic-connectionist approach.* Poster presented at the Fifth Biennial Meeting of the Cognitive Development Society, Santa Fe, New Mexico. http://www.morrisonlab.org/publications/morrison_etal_CDS_Poster_2007.pdf

Morrison, R.G. (2006, November). *Beyond the passive video experience: Challenges for research on new approaches in video for psychology education*. Paper presented 36th Meeting of the Society for Computers in Psychology, Houston, Texas.

Morrison, R.G., Doumas, L.A.A., & Richland, L.E. (2006, July). *The development of analogical reasoning in children: A computational account.* Paper presented at the Twenty-ninth Annual Conference of the Cognitive Science Society, Vancouver, Canada.

Thompson, G., **Morrison, R.G.**, Holyoak, K.J. & (2006, June). *Evaluation of an Online Analogical Patient Simulation Program.* Paper presented at the IEEE International Symposium on Computer-Based Medical Systems: Advances in Medical Simulation, Salt Lake City, Utah.

Morrison, R.G., Lu, H., Holyoak, K.J., & Hummel, J.E. (2005, November). *Asynchronous priming in the gamma band facilitates discrimination of Kanizsa-type forms.* Poster presented at the 46th Annual Meeting of the Psychonomic Society, Toronto, Canada.

Thompson, G., **Morrison, R.G.**, & Holyoak, K.J. (2005, June). *Medulator™ analogical reasoning study: Evaluation of an online case-based learning tool.* Talk presented by Gregory Thompson at the Slice of Life conference sponsored by the Academy of American Medical Colleges), Portland, OR.

Morrison, R.G. (2005, May). *Retrieval.* Invited presentation at the 17th Annual American Psychological Society Conference, Los Angeles, CA.

Morrison, R.G., & Bergman, C.E. (2005, May). *Analogy into the world: Cuing learning in everyday life using narrative film.* Poster presented at the Teaching Institute of the 17th Annual American Psychological Society Conference, Los Angeles, CA.

Richland, L.E., **Morrison, R.G.**, & Holyoak, K.J. (2004, November). *Development of Analogical Reasoning: Inhibitory Control and Working Memory.* Poster presented at the 45th Annual Meeting of the Psychonomic Society, Minneapolis, MN.

Richland, L.E., **Morrison, R.G.**, & Holyoak, K.J. (2004, August). *Developmental Change in Analogical Reasoning: Evidence from a Picture-Mapping Task.* Talk read by Lindsey Richland at the Twenty-seventh Annual Conference of the Cognitive Science Society, Chicago, IL.

Richland, L.E., **Morrison, R.G.**, & Holyoak, K.J. (2003, October). Working memory and inhibition constraints on children's analogical reasoning. Poster presented at the 3rd Annual Meeting of the Cognitive Development Society, Park City, UT.

Morrison, R.G., Viskontas, I., & Hummel, J. (2003, April). *A computational account of working memory and inhibition changes in analogical reasoning during normal aging.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY.

Krawczyk, D., **Morrison, R.G.**, Holyoak, K.J., Chow, T.W., Mendez M., & Knowlton, B.J., (2003, April*). The role of prefrontal cortex in inhibiting competing perceptual and semantic information in relational reasoning.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY.

Morrison, R.G., Holyoak, K.J., Ash, A., & Erickson, E. (2002, November). *The role of working memory in analogical reasoning.* Talk read by Keith Holyoak at the Annual Meeting of the Psychonomic Society, Kansas City, MO.

Stevens, G., **Morrison, R.G.**, & Stark, R. (2002, November). *Neural-network model of a directed forgetting working memory task.* Poster presented at the Annual Meeting of the Psychonomic Society, Kansas City, MO.

Morrison, R.G., Hummel, J., & Holyoak, J. (2002, April). *A computational account of working memory and inhibition in analogical reasoning.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, California.

Krawczyk, D., **Morrison, R.G.**, Holyoak, K.J., Chow, T.W., Miller, Bruce L., & Knowlton, B.J., (2002, April*). Analogical reasoning and inhibition in prefrontal cortex.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, California.

Morrison, R.G., Macdonald, J.W., & Bjork, R.A. (2001, November). *Active suppression in the management of working memory.* Poster presented at the Annual Meeting of the Psychonomic Society, Orlando, FL.

Morrison, R.G., Holyoak, K.J., & Truong, B. (2001, August). *Working memory modularity in analogical reasoning.* Talk delivered at the Twenty-third Annual Conference of the Cognitive Science Society, Edinburgh, UK.

Krawczyk, D., **Morrison, R.G.**, Holyoak, K.J., Chow, T.W., Miller, Bruce L., & Knowlton, B.J., (2001, March*). Reasoning about picture analogies in prefrontal cortex.* Poster presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY.

Morrison, R.G., Krawczyk, D., Holyoak, K.J., Chow, T.W., Miller, Bruce L., & Knowlton, B.J., (2001, March). *Semantic inhibition and analogical reasoning in human prefrontal cortex*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY.

Morrison, R.G., Holyoak, K.J., & Spellman, B.A. (2000, August). Analogical priming in a word naming task. Poster presented at the Twenty-second Annual Conference of the Cognitive Science Society, Philadelphia, PA.

Morrison, R.G., Krawczyk, D., Knowlton, B.J., Holyoak, K.J., Boone, K.B., Chow, T., & Mishkin, F.S. (2000, March*). Relational reasoning and semantic inhibition in human prefrontal cortex.* Poster presented at the 10th Annual Rotman Research Institute Conference, Toronto, Ontario.

Allen, P.A., Pickle, J., Lien, M-C, Groth, K., & **Morrison, R.G.** (1997, November). *A Three-Stream Model of Visual Word Recognition.* Paper presented at the Annual Meeting of the Psychonomic Society, Philadelphia, PA.

H. Invited Presentations

Morrison, R.G. (2012). *The role of inhibition in analogical reasoning: Developmental, neuropsychological, neuroimaging, and computational evidence*. Analogical Reasoning Keynote Address 6th International Conference on Thinking, University of London, July 4.

Morrison, R.G. (2012). *Predicting pathologic aging: Behavioral and electrophysiological biomarkers for Alzheimer's disease*. Keynote Address 2012 Chicago Area Undergraduate Research Symposium, Chicago, March 3.

Morrison, R.G. (2012). *Active learning in Neuroscience: Student made Films as a Means to Deep Learning,* Focus on Teaching and Learning 2012, Center for Ignation Pedagogy, Loyola University Chicago, January 12.

Morrison, R.G. (2011). *Cognitive neuroscience methods in developmental psychology.* Psychology Department, Loyola University Chicago, November 7.

Morrison, R.G. (2011). *Predicting Alzheimer's disease: Behavioral & electrophysiological biomarkers.* Neuroscience 300, Biology Department, Loyola University, September 13.

Morrison, R.G. (2011). *Human memory in normal and pathological aging.* Neuroscience Institute, Stritch School of Medicine, Loyola University Chicago, May 10.

Morrison, R.G. (2010). *Electrophysiology of Category Learning in Alzheimer's Disease*. Alzheimer's Disease Research Fund, Illinois Department of Public Health, Chicago IL, October 21.

Morrison, R.G. (2010). *Predicting Alzheimer's disease: Behavioral & electrophysiological biomarkers.* Neuroscience 300, Biology Department, Loyola University, October 5.

Morrison, R.G. (2010). *Presentation of Research Interests.* Neuroscience Institute Retreat, Loyola University, March 13.

Morrison, R.G. (2009). *Predicting Alzheimer's disease: Behavioral & electrophysiological biomarkers.* Neuroscience 300, Biology Department, Loyola University, November 11.

Morrison, R.G. (2009). *Reasoning with memory: Neuropsychological, neuroimaging, developmental and computational evidence.* Psychology Department, Loyola University, March 16.

Morrison, R.G. (2009). *How does analogy work? Neurocognitive, Developmental and Computational Evidence.* Psychology Department, Hope College, February 11.

Morrison, R.G. (2008). *Neural dissociations in category learning: An event-related potential approach.* Northwestern University Interdisciplinary Neuroscience Retreat, September 9.

Morrison, R.G. (2008). *Dissociation of rule-based and information integration category learning: An event-related potential approach.* Mechanisms of Aging and Dementia Training Day. Northwestern University Medical School, March 13.

Morrison, R.G. (2007). *Concourse: An interdisciplinary discussion.* School of the Art Institute of Chicago, May 13.

Morrison, R.G. (2007). *Analogical reasoning in working memory: Developmental, neurocognitive and computational evidence.*
Psychology Department, Macalester College, March 22
Psychology Department, St. Lawrence University, February 8
Psychology Department, Columbia University, January 30
Psychology Department, Kalamazoo College, January 23
Cognitive Science Department, Case Western Reserve University, January 16
Psychology Department, Union College, January 11
Psychology Department, College of the Holy Cross, December 11, 2006

Morrison, R.G. (2006). *Digital video and artificially intelligent multimodal expert systems: Training and teaching applications in psychology.* Respondent. Society for Computers in Psychology, Houston, TX. November 16.

Morrison, R.G. (2006). *Analogical reasoning in working memory: Developmental, neurocognitive and computational evidence.* Psychology Department, University of Illinois at Urbana-Champaign, Urbana IL. September 22.

Morrison, R.G. (2005). *Analogical Reasoning: From neurocognition to education.* Psychology Department, University of Illinois at Chicago, Chicago IL. November 7.

Morrison, R.G. (2005,). *Retrieval.* 17th Annual American Psychological Society Conference, Los Angeles, CA. May 27.

Morrison, R.G. (2005). *New concepts in educational media: The use of story-based film in teaching science.* Communications Department, North Park University, Chicago, IL. February 8.

Morrison, R.G. & Krawczyk, D.C. (2003). *Reasoning and problem solving in the human brain.* Frontotemporal Dementia Clinic and Research Program, University of Southern California, Rancho Los Amigos, CA. January 4.

Morrison, R.G. (2001). *Working memory and analogical reasoning in human prefrontal cortex.* Cognition and Brain Unit, MRC, Cambridge University, Cambridge, UK. August 16.

Morrison, R.G. (2001). *Working memory and inhibition in analogical reasoning.* Department of Cognitive Science, University of California, Irvine, Irvine, CA. November 28.

I. Editorial Activities

Holyoak, K.J., & Morrison, R.G. (Eds.) (2012). *The Oxford handbook of thinking and reasoning*. New York: Oxford University Press.

Holyoak, K.J., & Morrison, R.G. (Eds.) (2005). *The Cambridge handbook of thinking and reasoning*. Cambridge, UK: Cambridge University Press.

Ad Hoc Reviewer or Commentator for the following peer-reviewed publications:
Behavioral and Brain Sciences
Brain Research
Cambridge University Press (Books)
Cognitive Psychology
Human Brain Mapping
Journal of Cognitive Neuroscience
Journal of Experimental Child Psychology
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory, & Cognition
Memory & Cognition
Neuropsychologia
Neuroscience
Oxford University Press (Books)
Proceedings of the Cognitive Science Society
Thinking & Reasoning

J. Teaching Experience

Loyola University Chicago, Department of Psychology, Assistant Professor

Undergraduate Faculty, College of Arts and Sciences

Psychology 314: Experimental Psychology – Cognition – syllabus available on request (Fall 2009, Spring 2010, Spring 2011). Experimental methods allow psychologists to move beyond mere speculation and intuition to build theories of how people think based on the scientific method. You have previously learned about many of these theories and perhaps a few of the methods in your Cognitive Psychology course. During this course you will further your skills to design experiments to answer your own questions. To meet this goal, in this course you will participate in a variety of experiments used by cognitive psychologists to address questions about attention, memory and reasoning. You will also learn to analyze these experiments and practice presenting your results in the ways commonly used by experimental psychologists.

Psychology 398/382: Cognitive and Behavioral Neuroscience –syllabus available on request (Fall 2010, Fall 2011). The field of cognitive neuroscience, officially just over 30 years old, has revolutionized the way psychologists study the mind and its disorders. Building on the older disciplines of behavioral neurology and physiological psychology, cognitive neuroscience adds a broad change of new methods that provide spatial and temporal views of neural processing as well as innovative techniques to alter brain structure or functioning.

Together these methods add to the traditional experimental methods of psychological science to allow us to move beyond mere speculation and intuition to build theories of how people think based on the scientific method and importantly constrained by mechanisms and representations consistent with how the brain processes information. In this course the methods of cognitive neuroscience including genetics, brain imaging (e.g., single unit recording, EEG/ERP/ERO, fMRI, PET, MEG) and dissociation-based techniques such as behavioral neurology and TMS. You will also become familiar with the structure of the human brain. Putting these together we will then consider a broad range of topics in higher human cognition including: object recognition, memory, emotions, social cognition, language, attention, consciousness, reasoning & problem solving and decision making. Thus, this course will survey a broad range of topics mainly through lecture presentations including video. However, you will be expected to learn much from the assigned readings. You will also have a unique opportunity to learn to apply the course material through making a video of your own.

Honors 204: Science & Society: Psychology of Creativity –syllabus available on request (Spring 2011, Spring 2012). During the last sixty years scientists have explored the personality traits, mental processes, and brain functions that allow people to exhibit creative behavior. In this course we will survey a variety of different theories of creativity drawing on cognitive, developmental, personality and social psychology and neuroscience. We will consider artistic, scientific and cultural creativity, making extensive use of reading and film to encounter creators and their products directly and through the minds of their students and scholars. Together we will reflect on our own creative processes via discussion and writing and engage in a group study of a living eminent creative individual here in Chicago.

Graduate Faculty College of Arts & Sciences & Neuroscience Graduate Program Faculty

Psychology 435: Information Processing/Seminar in Cognitive Neuroscience–syllabus available on request (Spring 2010, Spring 2012). The way that information is represented and processed in the brain is central to a broad range of topics in psychological science. In this course we will consider how the methods of cognitive neuroscience including brain imaging (e.g., EEG/ERP/ERO, fMRI, MEG) and dissociation-based techniques such as neuropsychology and TMS, have revolutionized the exploration of these topics. We will pay particular attention to how these techniques can be used to understand higher-level cognition during development and in questions related to social psychology and psychopathology. Class participants will be introduced to these techniques, read, present, and discuss results from the primary literature, and also have an opportunity to develop an idea relating to their own research incorporating one or more of these methods.

School of the Art Institute of Chicago; Liberal Arts Department – Adjunct Professor

Behavior & Genetics – Syllabus and Student Evaluations available on request
Understanding how genetics influences our mind and behavior has progressed more in the last ten years than in the rest of human history combined and the pace continues to accelerate. This rapid progress necessitates that every human being understand their genetic organization and its implications at a much more advanced level to be able to make important personal, reproductive, medical, political and ethical decisions in the future. Using primary and secondary scientific literature as well as readings from the popular press reading this course provides an introduction to the molecular and quantitative methods of contemporary behavioral genetics, a field at the crossroads of biology, cognitive science, neuroscience, and psychology. The also provides an introduction to psychological measurement. I taught this course during Spring 2007.

Psychology of Creativity – Syllabus and Student Evaluations available on request

During the last eighty years psychologists have explored the traits and processes that help people be creative. Drawing on cognitive, social and personality psychology as well as neuroscience, this course surveys a variety of different models of creativity. We consider both artistic and scientific creativity, making extensive use of primary and secondary literature and both feature and documentary film to encounter creators and their products directly. Students reflect on their own creative processes via both writing and creative production. I taught this course during Spring 2008.

University of California, Los Angeles; Psychology Department – Teaching Associate/Assistant

Psychology 120: Core Class in Cognitive Psychology.
Responsible for weekly lectures, exam design, grading and advising for 100 students. Mean Student Evaluation Ratings: 8.10 (9.00 maximum rating) (Simon/Cheng, 1999)

Psychology 121: Laboratory in Cognitive Psychology .
Responsible for syllabus design, lecturing, grading and student supervision.
Created student's guide to the SuperLab™ program.
My mean Student Evaluation Ratings: 8.09 (9.00 maximum rating)
(Holyoak, 1999; Livesay, 1999; Holyoak, 2000; Holyoak, 2001)

K. Students Supervised

Loyola Graduate

(Thesis Committee[1]; Philosophy[2], Political Science[3])

Meghan Cole, Valerie Flores, Stephanie Hare[2], Vanessa Raschke, Liz Tominello, Sandra Vanegas[1], Dane Wendell[3], Jana Wingo, Arie Zakaryan

Loyola Undergraduate

(Psyc 389/Neuroscience 302 Mentor[1]; Psyc 397 Mentor[2]; Psychology 399 Mentor[3]; Psyc 369/370 Mentor[4]; Biology 396 Mentor[5]; Carbon Scholar Mentor[6]; Provost Fellow Mentor [7])

Dan Cunninghan[1] (2009-2010), Krishna Bharani[1] (2009-2011), Kelly Brandstatt[3] (2010-2012), Ryan Brisson[3] (2011-2012), Dietta Chihade[5] (2010-2011), Miraj Chokshi[3,7] (2009-2012), Andrew Cirt, (2009-2011), Elise Gagnon[3] (2011-2012), Mirinda James (2009-2010), Matt Kmiecik[3,7] (2010-2012), John Molony [3] (2011-2012), Kevin Nuechterlein[1] (2010-2011), Slava Nikitin[1] (2009-2010), Nirav Patel[3,7] (2010-2012), Puja Patel[2] (2010), Izabelle Rymut[3] (2011-2012), Rebecca Shukhman[4] (2011-2012), Leonidas Skiadopoulos[3] (2011-2012), Brian Sweis[4,6] (2009-2012)

Post- Baccalaureate

Dan Cunningham (2010-2011), Kalen Flynn (2012), Sean McCarthy (2011-2012), Slava Nikitin (2010-2011)

Northwestern Graduate

(Thesis Committee*)

Donna Bridge*

Northwestern Undergraduate

(Provost Fellowship*)

Courtney Clark, Ian Dorish*

UCLA Undergraduate

Alex Antoniu, Arden Ash, Arun Bahl, Jennifer Behrman, Ilya Bendich, Angela Chan, Sarah Duni, Erik Erickson, Karen Fox, Robin Gruver, Laura Ha, Chris Hall, Billy Huang, Francesqca Jimenez, Genna Kersten, Amanda Kowolski, Winston Kwong, Suh-Kyung Lee, Jeff Loeffelholz, Krystal Long, James MacDonald, Makoto Otsuka, Steven Pranoto, Scott Rosnick, Tannaz Sassoni, Maria Selah, Ji Son, Roshaun Stanisai, Leah Swalley, Angie Thornton, Bao Truong, Ofillio Vigil, Christine Vu.

L. Service Activities

2012	Grant Selection Committee—Alzheimer's Disease Reaseach Fund—Illinois Department of Health
2011-2012	Program Committee – 6th International Conference on Thinking University of London, Birkbeck College
2011-2012	Search Committee – Neuroscience
2011-2012	Neuroscience Institute Retreat Committee – Stritch School of Medicine
2011-2012	Executive Committee – Department of Psychology
2011-2012	Executive Committee – Neuroscience Institute, Stritch School of Medicine
2011-2012	Faculty Advisor – Loyola University Chicago Neuroscience Society

2011-2012	Faculty coordinator – Brain Points (brainpoints.blogspot.com) – a blog written by the Loyola neuroscience community featuring current events in neuroscience
2011	Cofounded Chicago Memory Group – a group of professors and their labs from Loyola University Chicago, Northwestern University, University of Chicago, University of Illinois at Chicago, University of Illinois at Urbana/Champaign
2011	Hosted Neuroscience Society Banquet speaker Dr. Dan Schacter
2011	Organized and hosted inaugural meeting of the Chicago Memory Group at the Watertower Campus
2011	Hosted *Brain Bug's* author Dr. Dean Buonomono for a talk sponsored by the Neuroscience Society and the Interdisciplinary Neuroscience Program
2011	Testified on behalf of the Illinois Department of Public Health for the General Assembly's Health & Healthcare Disparities Committee
2011	Ad Hoc Classroom Technology Consultant to the Associate Provost
2011	Monday meetings for redesign of graduate program – provided research on graduate course utilization
2011	Co-Organized Symposium on Analogical Reasoning at the Society for Research in Child Development
2010-2011	Executive Committee – Department of Psychology
2010-2011	Executive Committee – Neuroscience Institute, Stritch School of Medicine
2009-2010	Search Committee – Pediatric Neuropsychology, Clinical Psychology Program
2009-2010	Executive Committee – Department of Psychology

Northwestern University

<u>One Northwestern Initiative – Post-Doctoral representative on the Centers subcommittee</u>

One Northwestern was an initiative aimed at examining the entire structure of the life and biomedical sciences at Northwestern and making recommendations to transform it to meet the needs of the 21st century. The "Centers, Institutes, and Departments Committee" was charged with finding ways to foster cross department collaboration, enabling faculty and students to be fully engaged and to reach their potential within an institution that places great value on science excellence and innovation. Partly due to my record of successful collaboration, I was nominated to serve on this committee for one year as the sole Post-Doctoral representative amongst the participating faculty and administrators from a variety of different Northwestern departments.

University of California, Los Angeles

<u>Redesign of UCLA Cognitive Psychology Laboratory</u>

While a graduate student at UCLA, I served on a committee charged with redesigning the cognitive teaching laboratory in Franz Hall. This involved acting as a consultant in the design of a 21 computer networked facility driven off of a common network server. The system allowed for quick deployment of laboratory experiments across all of the laboratory computers. Integrated software included SuperLab, MatLab, and SPSS as well as a variety of programming environments used for Computational Modeling courses. I was chosen to be a part of the committee because of my past experience in research manangement, experience with maintaining a 15 computer cognitive laboratory and also because of my extensive experience as a teaching assistant in the cognitive laborator

M. Graduate Advisor

Keith J. Holyoak-University of California, Los Angeles

N. Post-Doctoral Advisor

Ken A. Paller – Northwestern University

O. References

Keith J. Holyoak, PhD*
Distinguished Professor
University of California, Los Angeles
Department of Psychology
310-206-1646
holyoak@lifesci.ucla.edu

John E. Hummel, PhD*
Professor
University of Illinois, Urbana/Champaign
Department of Psychology
217-265-6090
jehummel@cyrus.psych.uiuc.edu

Barbara J. Knowlton, PhD*
Professor
University of California, Los Angeles
Department of Psychology
310-825-5917
knowlton@psych.ucla.edu

Robert A. Bjork, PhD*
Distinguished Professor and Chair
University of California, Los Angeles
Department of Psychology
310-825-57028
rabjork@psych.ucla.edu

Ken A. Paller, PhD*
Professor of Brain, Behavior, & Cognition
Director, Cognitive Neuroscience Program
Northwestern University
847-467-3370
kap@northwestern.edu

Paul J. Reber, PhD*
Associate Professor, Psychology
Northwestern University
847-467-1624
preber@northwestern.edu

Elizabeth Wright, PhD
Associate Professor of Liberal Arts
School of the Art Institute of Chicago
312-345-3764
ewright@saic.edu

Michael Rogalski
President, Board of Directors
Xunesis
773-791-5874
mrogals@sbcglobal.net

*Recommendation letters available on request.