

## Curriculum Vitae

Robert G. Morrison

April 7, 2013

*Home Address:* 1317 W Greenleaf Ave  
Chicago IL 60626

*Work Address:* Loyola University Chicago  
Department of Psychology  
Coffey Hall 244  
1032 W Sheridan Rd  
Chicago IL 60660

*E-mail:* rmorrison@luc.edu  
*Voice:* (312) 498-2612  
*Fax:* (312) 896-9154

*Biosketch:* <http://www.canlab.org/biosketch.html>  
*eRA Commons:* RGMORRISON  
*pubmed:* MORRISON RG  
*Google Scholar:* <http://scholar.google.com/citations?user=QSH-7RsAAAAJ>  
*Research Gate:* [https://www.researchgate.net/profile/Robert\\_Morrison4/?ev=hdr\\_xprf](https://www.researchgate.net/profile/Robert_Morrison4/?ev=hdr_xprf)  
*LinkedIn:* <http://www.linkedin.com/in/robertgmorrison?trk=shareTw>

### **Cognitive and Affective Neuroscience Lab (CAN Lab)**

*Location:* Coffey Hall LL21  
*Voice:* (773) 609-5223  
*Email:* canlab@luc.edu  
*Web:* <http://www.canlab.org>

### **Hosted Blogs**

*Brain Points:* [brainpoints.blogspot.com](http://brainpoints.blogspot.com)  
*More Brain Points:* [morebrainpoints.blogspot.com](http://morebrainpoints.blogspot.com)  
*What's Creative LUC?:* [whatscreativeluc.blogspot.com](http://whatscreativeluc.blogspot.com)

## **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



---

Loyola University, Multidisciplinary Development Grant <i>The Neural Correlates of Behavioral Activation Therapy (Mobilize!) in Depression</i> Investigator	6/1/2012 – 8/31/2013	\$29,908 Role: Co-
IDPH, Alzheimer's Disease Research Fund Grant <i>Electrophysiology of category learning in Alzheimer's Disease</i> Role: Principal Investigator	1/1/2012-12/31/2012	\$34,958
Loyola University Summer Stipend <i>Electrophysiology of Category Learning in Super Agers</i> Role: Principal Investigator	6/1/2012-8/15/2012	\$7,000
Rosalinde and Arthur Gilbert Foundation American Federation of Aging Research/New Investigator in Alzheimer's Disease Award <i>Electrophysiology of Category Learning in Mild Cognitive Impairment</i> Role: Principal Investigator	7/1/2011-6/30/2013	\$99,988
Loyola University, Multidisciplinary Development Grant <i>Is political ideology hardwired? Testing political variables in the brain</i> Role: co-Principal Investigator	7/1/2011-6/30/2012	\$25,000
IDPH, Alzheimer's Disease Research Fund Grant <i>Electrophysiology of category learning in Alzheimer's disease</i> Role: Principal Investigator	10/1/2009-9/30/2010	\$30,000
NIA, Northwestern Alzheimer's Disease Core Center <i>Electrophysiological of Category Learning in Patients with Mild Cognitive Impairment</i> Role: Principal Investigator; Awarded and then unfunded because of institution change	10/1/2009-9/30/2010	\$28,000
SBIR OSD03-DH07 ONR, Gregory Thompson (PI) <i>Medical Training for Force Mobilization and Disaster Response</i> Role: Consultant	2006-2007	
SBIR OSD01-CR11 ONR, Gregory Thompson (PI) <i>An Intelligent System for Case-Based Instruction</i> Role: Consultant	2002-2004	

**Sponsor/Mentor**

Loyola University Chicago McNair Scholars Program Bianca Wells – student <i>A method for studying the neural correlates of Memory Monitoring and Successful Encoding during Face-Name Association Learning</i> Role: Mentor	5/1/2013-8/30/2013	\$5,000
Loyola University Chicago Graduate School Research Mentoring Award Valerie Flores – graduate student; Jessica Tapia – undergraduate student <i>Executive Functions in Language Brokers</i> Role: Sponsor	5/1/2013-8/30/2013	\$2,500
Loyola University Chicago Graduate School Research Mentoring Award Dane Wendell – graduate student; Makiah Nuutinen – undergraduate student	5/1/2013-8/30/2013	\$2,500

---

---

<i>Neural Correlates of Political Ideology</i>		
Role: Sponsor		
Loyola Undergraduate Research Opportunities Program	5/1/2013-8/30/2013	\$2,000
Provost Fellowship: Will Beischel – student		
<i>Changes in Face-Name Memory during Normal Aging: The Neural Correlates of Memory Monitoring and Successful Encoding</i>		
Role: Sponsor		
Loyola Undergraduate Research Opportunities Program	5/1/2013-8/30/2013	\$2,000
Provost Fellowship: Robert Palumbo – student		
<i>Your Brain on First Person Shooters: Neural Correlates of Empathetic Responding Modulated by Exposure to Violent Media</i>		
Role: Sponsor		
Loyola Undergraduate Research Opportunities Program	9/1/2013-5/30/2014	\$2,000
Provost Fellowship: Leanne Stacey – student		
<i>Arousal, Empathy, and Formal Features of Violent Video Games and Brand Recognition and Brand Attitudes</i>		
Role: Co-sponsor		
Johnson Scholars Program	9/1/2012-5/1/2014	\$11,000
Johnson Scholar: Elise Gagnon – student		
<i>Development of neural networks responsible for analogical reasoning</i>		
Role: Sponsor		
Johnson Scholars Program	9/1/2012-5/1/2014	\$11,000
Johnson Scholar: Izabelle Rymut – student		
<i>Behavioral and Electrophysiological Predictors for Alzheimer's Disease</i>		
Role: Sponsor		
Johnson Scholars Program	9/1/2012-5/1/2014	\$11,000
Johnson Scholar: Callie Short – student		
<i>Media Violence and its Impact on Empathetic Emotional Response: An Electrophysiological Study</i>		
Role: Sponsor		
Loyola Undergraduate Research Opportunities Program	9/1/2012-4/30/2013	\$2,000
Mulchay Fellowship: Rebecca Shukkman – student		
<i>Electrophysiology of Category Learning in Super-Agers</i>		
Role: Sponsor		
Loyola Undergraduate Research Opportunities Program	9/1/2012-8/30/2013	\$2,000
Mulchay Fellowship: Nirav Patel – student		
<i>The Role of Inhibition in Determining Political Ideology</i>		
Role: Sponsor		
Loyola Undergraduate Research Opportunities Program	9/1/2012-8/30/2013	\$2,000
Mulchay Fellowship: Matt Kmiecik – student		
<i>Electrophysiology of Verbal Analogical Reasoning</i>		
Role: Sponsor		
Loyola Undergraduate Research Opportunities Program	5/1/2012-8/30/2013	\$2,000
Provost Fellowship: Nirav Patel – student		
<i>The Role of Inhibition in Determining Political Ideology</i>		
Role: Sponsor		

---

---

Loyola Undergraduate Research Opportunities Program Provost Fellowships: Matt Kmiecik – student <i>Electrophysiology of Verbal Analogical Reasoning</i> Role: Sponsor	5/1/2012-8/30/2013	\$2,000
WISER Program: Laura L. Mayer Summer Internship Program Intern: Katherine D'Aunno <i>Electrophysiology of Category Learning in Super-Agers</i> Role: Faculty Co-mentor	5/1/2012- 8/30/2012	\$2,500
Loyola Undergraduate Research Opportunities Program Provost Fellowship: Nirav Patel – student <i>The Role of Inhibition in Determining Political Ideology</i> Role: Sponsor	9/1/2011-4/30/2012	\$1,900
Loyola Undergraduate Research Opportunities Program Provost Fellowship: Miraj Chokshi – student <i>Neurocorrelates of Relational and Featural Similarity Processing</i> Role: Sponsor	5/15/2011-8/30/2011	\$1,500
Loyola Undergraduate Research Opportunities Program Provost Fellowship: Matt Kmiecik – student <i>Electrophysiology of Verbal Analogical Reasoning</i> Role: Sponsor	5/15/2011-8/30/2011	\$1,900
Loyola Undergraduate Research Opportunities Program Provost Fellowship: Miraj Chokshi – student <i>The Effect of Personal Perceived Power on Reasoning Strategy Selection</i> Role: Sponsor	9/1/2010-5/1/2011	\$2,000
Carbon Undergraduate Research Fellowship Program Carbon Fellowship: Brian Sweis – student <i>The Behavioral and Neurochemical Analysis of the Effects of Chronic Stress on Mental Health</i> Role: Co-sponsor	9/1/2010-5/1/2012	\$15,000

---

### C. Publications

*For electronic reprints of recent publications, conference proceedings, and other conference related materials please see: <http://www.canlab.org/morrison-publications.html>*

#### **Peer-Reviewed Journal Articles**

Knowlton, B.J., **Morrison, R.G.**, Hummel, J.E., & Holyoak, K.J. (2012). A neurocomputational system for relational reasoning. *Trends in Cognitive Science*, 16(7), 373-381. doi.: 10.1016/j.tics.2012.06.002

**Morrison, R.G.**, Dumas, 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.**, 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.**, & 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

### **Peer-Reviewed Conference Proceedings**

- Kmieciak, M., & **Morrison, R.G.** (2013). *Semantic Distance Modulates the N400 Event-Related Potential in Verbal Analogical Reasoning. Proceedings of the 35th Annual Conference of the Cognitive Science Society.* Austin, TX: Cognitive Science Society.
- McCarthy, S., Molony, J. & **Morrison, R.G.** (2013). *Insight follows incubation in the Compound Remote Associates Task. Proceedings of the 35th Annual Conference of the Cognitive Science Society.* Austin, TX: Cognitive Science Society.
- Sweis, B.M., Bharani, K.L. & **Morrison, R.G.** (2012). The time course of inhibition in analogical reasoning: An event-related potential approach. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society.* Austin, TX: Cognitive Science Society.
- 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*. Mahwah, NJ: Erlbaum.
- 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.

### **Books and Chapters**

- Morrison, R. G.** (in press). Problem solving. In M. Aminoff & R. Daroff (Eds.), *The encyclopedia of the neurological sciences (2<sup>nd</sup> Edition)*. San Diego: Academic Press.
- Morrison, R.G.** (2013). Analogical reasoning: Models of development. In H. Pashler (Ed.), *Encyclopedia of the mind*. Thousand Oaks, CA: Sage Publications.
- 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* (pp. 67-89). New York: Oxford University Press.

---

**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.**, & 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.

### **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.

### **Patents**

Morrison, Robert G., Streitl, S.G., Cramm, J.R. (1994). *U.S. Patent No. 5,294,664*. Washington, DC: U.S. Patent and Trademark Office.

Morrison, Robert G., Streitl, S.G., Cramm, J.R. (1994). *European Patent No. 0590935*. The Hague, Netherlands: European Patent Office.

### **Manuscripts under Review**

Doumas, L.A.A.\*, **Morrison, R.G.\***, & Richland, L.E. (2013). *Individual differences in relational learning and analogical reasoning over time: A computational approach*. Manuscript submitted for publication. \*These authors contributed equally to this work.

**Morrison, R.G.**, Bharani, K., Reber, P., & Paller, K.A. (2013). *Neural dissociations in category learning: An electrophysiological approach*. Manuscript in submitted for publication.

### **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.

Kmiecik, M., & **Morrison, R.G.** (2012). *Verbal analogy problems based on asymmetric relations including normative data*. Manuscript in preparation

McCarthy, S., Molony, J., & **Morrison, R.G.** (2012). *Incubation in problems solving: The role of insight*. Manuscript in preparation.

**Morrison, R.G.**, & Kmiecik, M. (2012). *Semantic Distance Modulates the N400 Event-Related Potential in Verbal Analogical Reasoning*. Manuscript in preparation

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

---

**Morrison, R.G., Shukhman, R., Bharani, K.L., Weintraub, S., Rogalski, E., & Mesulam, M-M,** (2013, April). *Increased P2 event-related potential response in older individuals with exceptional memory function. Manuscript in preparation*

Raschke, V.R., Flores, V., Siltan, R.L., Bharani, K., Kais, L.A., Vyas, N.A., & **Morrison, R.G.** (2013, September). *Inhibition processes in bilinguals: Identifying neural advantages for bilingual language brokers. Manuscript in preparation.*

Siltan, R.L., Kais, L.A., Raschke, V.R., Flores, V., Bharani, K., Vyas, N.A., & **Morrison, R.G.** (2013, September). *Inhibition and shifting are distinguished by temporal differences in early neural processing. Manuscript in preparation.*

### **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*

*British Journal of Developmental Psychology*

*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*

---

## **D. Presentations**

### **Conference Presentations**

Kais, L.A., Siltan, R.L., Raschke, V.R., Flores, V., Bharani, K., Vyas, N.A., & **Morrison, R.G.** (2013, September). *Inhibition and shifting are distinguished by temporal differences in early neural processing.* Abstract submitted for the Society for Psychophysiological Research Annual Meeting, Florence, Italy.

Raschke, V.R., Flores, V., Siltan, R.L., Bharani, K., Kais, L.A., Vyas, N.A., & **Morrison, R.G.** (2013, September). *Inhibition processes in bilinguals: Identifying neural advantages for bilingual language brokers.* Abstract submitted for the Society for Psychophysiological Research Annual Meeting, Florence, Italy.

- 
- Kmiecik, M., & **Morrison, R.G.** (2013, August). *Semantic Distance Modulates the N400 Event-Related Potential in Verbal Analogical Reasoning*. Paper presented at the 35th Annual Conference of the Cognitive Science Society, Berlin Germany
- McCarthy, S., Molony, J. & **Morrison, R.G.** (2013, August). *Insight follows incubation in the Compound Remote Associates Task*. Poster presented at the 35th Annual Conference of the Cognitive Science Society, Berlin Germany
- Kmiecik, M.J., Brisson, R.J., & **Morrison, R.G.** (2013, April). *Semantic distance in verbal analogical reasoning modulates the N400 event-related potential*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- Mandel, N., Shukhman, R., Endris, L., Rymut, I., Bharani, K.L., Hurley, R.S., & **Morrison, R.G.** (2013, April). *Metamemory into memory: The neural correlates of adaptive encoding*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- Shukhman, R., Bharani, K.L., D'Aunno, K., Whitney, K.R., Hurley, R.S., Weintraub, S., Rogalski, E., Mesulam, M-M, & **Morrison, R.G.** (2013, April). *Increased P2 event-related potential response in older individuals with exceptional memory function*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- 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 accepted for the 34<sup>th</sup> 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*. Poster to be presented for the 34<sup>th</sup> 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.
- McCarthy, S., Hare, S., Molony, J., Brandstatt, K., Skiadopoulos, L., Bharani, K.L. & **Morrison, R.G.** (2012, March). *Insight follows incubation in the Remote Associates Test*. Poster accepted for Poster to be presented at the 6<sup>th</sup> International Conference on Thinking, London, England.
- Morrison, R.G.**, (2012, July). *Processing dynamics in analogical reasoning: Developmental, neuropsychological, neuroimaging, and computational evidence*. Talk to be presented at the 6<sup>th</sup> International Conference on Thinking, London, England.
- Morrison, R.G.**, (2012, July). *Analogical reasoning*. Symposium organized for the 6<sup>th</sup> 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 presented at 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 17<sup>th</sup> 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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 20<sup>th</sup> 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 48<sup>th</sup> 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 48<sup>th</sup> 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](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 36<sup>th</sup> 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 46<sup>th</sup> 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 17<sup>th</sup> 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 17<sup>th</sup> 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 45<sup>th</sup> 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 3<sup>rd</sup> 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 10<sup>th</sup> 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.

### **Invited Talks**

- Morrison, R.G. (2013). *Analogy in the brain*. 3<sup>rd</sup> International Conference on Analogy. Université de Bourgogne, Dijon, France.

- 
- Morrison, R.G. (2013). *Inhibitory Control and Knowledge in Analogy: Developmental, computational, and neuroimaging approaches*. Psychology Department, University of Illinois at Urbana-Champaign, Urbana IL.
- Morrison, R.G. (2013). The neural correlates of metamemory and adaptive encoding in face-name association memory. Psychology Department. Northwestern University.
- Morrison, R.G. (2012). *The role of inhibition in analogical reasoning: Developmental, neuropsychological, neuroimaging, and computational evidence*. Analogical Reasoning Keynote Address 6<sup>th</sup> International Conference on Thinking, University of London, July 4.
- Morrison, R.G. (2012). *Comic Book Independents: Documentary Film Screening & Panel Discussion*. Claudia Cassidy Theater, Chicago Cultural Center, Chicago, June 12.  
[http://www.dcatheater.org/shows/show/comic\\_book\\_independents\\_documentary\\_film\\_screening\\_panel/](http://www.dcatheater.org/shows/show/comic_book_independents_documentary_film_screening_panel/)
- 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). *Predicting pathologic aging: Behavioral and electrophysiological biomarkers for Alzheimer's disease*. New Investigators in Alzheimer's Disease Grantee Meeting, Santa Barbara, CA, June 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*. 17<sup>th</sup> 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.
- 

## E. Teaching

Recent syllabi can be found at <http://www.canlab.org/teaching1.html>

### **Loyola University Chicago - Undergraduate**

*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, Fall 2012). 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.

**Neuroscience 300: Seminar in Neuroscience 00** syllabus available on request (Fall 2012). Neuroscience involves the study of the nervous system in both human and nonhuman organisms. Neuroscientists seek to understand how the brain and its underlying neural architecture enables perception, thought, emotion and action as well as other aspects of behavior. This includes describing how the nervous system develops, matures and maintains itself through life during both typical and pathologic trajectories. An important part of neuroscience includes understanding how the nervous system changes with various diseases and how to prevent or cure many devastating neurological and psychiatric disorders. This semester we will hear talks from neuroscientists working at all of these levels. The intent of the course is not to provide you will a comprehensive overview of neuroscience, but rather to give you a glimpse into how neuroscientists ask and answer questions. The intent is also to help you to become a consumer of neuroscience research you may read about both in scientific literature, but also the popular press and to help you apply what you learn about through the scientific literature and neuroscience courses here at Loyola to things in the outside world.

---

**Loyola University Chicago - Graduate**

*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 – Adjunct Professor**

Behavior & Genetics – Syllabus and Student Evaluations available on request (Spring 2007)  
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.

Psychology of Creativity – Syllabus and Student Evaluations available on request (Spring 2008)  
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.

**University of California, Los Angeles – 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)

**Students Supervised**

**Loyola Graduate**

(Psychology<sup>1</sup>; Philosophy<sup>2</sup>; Political Science<sup>3</sup>; Thesis Committee\*; Thesis Committee Chair\*\*)

Meghan Cole<sup>1</sup>, Daniel Dickson<sup>1</sup>, Valerie Flores<sup>1\*\*</sup>, Stephanie Hare<sup>2</sup>, Catherine Lee<sup>1</sup>, Vanessa Raschke<sup>1</sup>, Laura Stockdale<sup>1\*</sup>, Sandra Vanegas<sup>1\*</sup>, Dane Wendell<sup>3\*</sup>

**Loyola Undergraduate**

Dan Cunningham (2009-2010), Will Beischel (2013), Krishna Bharani (2009-2011), Kelly Brandstatt (2010-2012), Ryan Brisson (2011-2013), Dietta Chihade (2010-2011), Miraj Chokshi (2009-2012), Andrew Cirt (2009-2011), Katie D'ainno (2012-2013), Laura Endris (2012-2013), Hannia Farooqi (2012), Julie Flannery (2012-2013), Elise Gagnon (2011-2013), Mirinda James (2009-2010), Matt Kmiecik (2010-2013), John Molony (2011-2012), Slava Nikitin (2009-2010), Kevin Nuechterlein (2010-2011), Makiah Nuutinen (2012-2013), Rob Palumbo (2012-2013), Nirav Patel (2010-2013), Puja Patel (2010), Isabelle Rymut (2011-2013), Callie Short (2012-2013), Rebecca Shukhman (2011-2013), Leonidas Skiadopoulos (2011-2013), Leanne Stacey (2013-2014); Riley Stica (2012-2013), Amanda Sweis (2012-2013), Brian Sweis (2009-2012), Bianca Wells (2013-2014), Sarah Zaza (2012-2013)

**Loyola Post- Baccalaureate**

Dan Cunningham (2010-2011), Kalen Flynn (2012), Natalie Mandel (2012-2013), Sean McCarthy (2011-2013), Slava Nikitin (2010-2011)

**Northwestern University Graduate**

Donna Bridge (2011-2013; Thesis Committee)

**Northwestern University Undergraduate**

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, Roshawn Stanisai, Leah Swalley, Angie Thornton, Bao Truong, Ofillio Vigil, Christine Vu

**University of Illinois at Urbana/Champaign**

Wookyoung Jung (2012-2013; Thesis Committee)

**F. Service****Loyola University Chicago**

- |           |  |
|-----------|--|
| 2013      | Selection Committee, Langerbeck Award for Undergraduate Research Mentoring, College of Arts and Science, Loyola University Chicago |
| 2013      | Grant Selection Committee—Alzheimer's Disease Reaseach Fund—Illinois Department of Health  |
| 2012-2013 | Planning Committee, Women in Neuroscience Luncheon, Gannon Center, College of Arts and Science, Loyola University Chicago          |
| 2012-2013 | Program Committee, 4 <sup>th</sup> International Conference on Analogy, Université de Bourgogne, Dijon, France                     |

- 
- 2012-2013 Planning Committee, 2013 St. Albert's Day Committee, Stritch School of Medicine, Loyola University Chicago
- 2012-2013 Co-coordinator, Neuroscience Seminar, College of Arts and Science/Stritch School of Medicine, Loyola University Chicago
- 2012-2013 Faculty Advisor, Loyola Neuroscience Society, Loyola University Chicago
- 2012-2013 Executive Committee, Neuroscience Institute, Stritch School of Medicine, Loyola University Chicago
- 2012 Hosted Dr. Bruce Miller (University of California, San Francisco) for a talk cosponsored by the Interdisciplinary Neuroscience Program and the Loyola Neuroscience Society
- 2012 Hosted Dr. Gary Marcus (New York University) for a talk sponsored by the Loyola Neuroscience Society
- 2012 Hosted Dr. Jean Decety (University of Chicago) for a talk sponsored by the Interdisciplinary Neuroscience Program
- 2012 Grant Selection Committee—Alzheimer's Disease Research Fund—Illinois Department of Health
- 2012 Hosted Dr. Mark Beeman for a talk sponsored by the Neuroscience Society and the Interdisciplinary Neuroscience Program
- 2011-2012 Program Committee – 6<sup>th</sup> International Conference on Thinking University of London, Birkbeck College, London UK
- 2011-2012 Search Committee – Neuroscience
- 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 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 Watertown Campus
- 2011 Hosted *Brain Bug's* author Dr. Dean Buonomano 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
- 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**

*One Northwestern Initiative – Post-Doctoral representative on the Centers subcommittee*

*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 21<sup>st</sup> 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**

*Redesign of UCLA Cognitive Psychology Laboratory*

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 management, experience with maintaining a 15 computer cognitive laboratory and also because of my extensive experience as a teaching assistant in the cognitive laboratory

---

**G. References**

**Graduate Advisor**

Keith J. Holyoak-University of California, Los Angeles

**Post-Doctoral Advisor**

Ken A. Paller – Northwestern University

**Reference Contact Information**

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

Barbara J. Knowlton, PhD  
Professor  
University of California, Los Angeles  
Department of Psychology

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

Robert A. Bjork, PhD  
Distinguished Professor and Chair  
University of California, Los Angeles  
Department of Psychology

---

310-825-5917  
knowlton@psych.ucla.edu

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

310-825-57028  
rabjork@psych.ucla.edu

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