

Kenneth J. Malmberg III

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Academic Positions

- 2005 - Assistant Professor, University of South Florida
- 2003 - 2005 Assistant Professor, Iowa State University
- 2000 - 2003 NIMH Postdoctoral Fellow, Indiana University
- 1996 - 1999 Teaching Assistant/Instructor, University of Maryland

Education

- Indiana University, Bloomington, postdoctoral, Cognitive Modeling
- University of Maryland at College Park, *Ph.D.*, 2000, Cognitive Psychology
- University of Minnesota at Duluth, *B.S.*, 1995, Computer Science
- University of Illinois at Urbana-Champaign, *B.S.*, 1989, Psychology

Honors and Awards

- 2004 New Investigator Award, **American Psychological Association**, Division 3: *Journal of Experimental Psychology: Learning, Memory, and Cognition*
- Member of the *Psychonomic Society*
- 2001 - 2002 National Institute of Mental Health NRSA Post-Doctoral Fellow Mathematical Modeling Training Grant to Indiana University
- 2000 - 2001 National Institute of Mental Health Individual NRSA Post-Doctoral Fellowship, Indiana University
- 1998 - 1999 Distinguished Teaching Assistant, University of Maryland

Publications

1. Murnane, K., Phelps, M. P., & Malmberg, K. (1999). ICE: A theory of context dependent discrimination. *Journal of Experimental Psychology: General*, 128(4), 403-415.
2. Malmberg, K. J. (2002). On the form of ROCs constructed from confidence ratings. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 28(2), 380-387.
3. Malmberg, K. J. & Murnane, K. (2002). List composition and the word-frequency effect for recognition memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 28(4), 616-630.
4. Malmberg, K. J., Steyvers, M., **Stephens, J. D.**, & Shiffrin, R. M. (2002). Feature-frequency effects in recognition memory. *Memory & Cognition*, 30(4), 607-613.
5. Malmberg, K. J. & Nelson, T. O. (2003). The word-frequency effect for recognition memory and the elevated-attention hypothesis. *Memory & Cognition* 31(1), 35-43.
6. Malmberg, K. J., Zeelenberg, R., & Shiffrin, R.M. (2003) Modeling midazolam's effect on the hippocampus and recognition memory. in S. Becker, S. Thrun, and K. Obermayer (Eds.). *Advances in Neural Information Processing Systems 15*, MIT Press, 75-82.
7. Steyvers, M. & Malmberg, K. J. (2003). The effect of normative context variability on recognition memory, *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 29(5), 760-766.
8. Malmberg, K. J., **Holden, J. E.**, & Shiffrin, R. M. (2004). Modeling the effects of repetitions, similarity, and normative word frequency on judgments of frequency and recognition memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 30(2), 319-331.
9. Malmberg, K. J., Zeelenberg, R., & Shiffrin, R.M. (2004). Turning up the noise or turning down the volume? On the nature of the impairment of episodic recognition memory by midazolam. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 30(2), 540-549.
10. Sanborn, A. N., Malmberg, K. J., & Shiffrin, R. M. (2004). High-level masking effects on perceptual identification. *Vision Research*, 44(12), 1427-1436.
11. Malmberg, K. J. & Shiffrin, R. M. (2005). The “one-shot” hypothesis for

- context storage. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 31(2) 322-336.
12. ‡ Malmberg, K. J., **Lehman, M.**, & Sahakyan, L. (2006). On the Cost and Benefit of Taking it out of Context: Modeling the Inhibition Associated with Directed Forgetting, *Proceedings of the 28th Meeting of the Cognitive Science Society*, 549-554.
 13. ‡ Malmberg, K.J. & **Xu, J.** (2006). The Influence of Averaging and Noisy Decision Strategies on the Recognition Memory ROC, *Psychonomic Bulletin & Review*, 13 (1), 99-105.
 14. Malmberg, K. J. & **Xu, J.** (2007). On the flexibility and on the fallibility of associative memory, *Memory & Cognition*. 35(3), 545-556
 15. ****Xu, J.** & Malmberg (2007). Modeling the effects of verbal- and nonverbal-pair strength on associative recognition, *Memory & Cognition*. 35(3), 526-544.
 16. Malmberg, K. J. (2008). Towards an understanding of individual differences in episodic memory: Modeling the dynamics of recognition memory. in A. Benjamin and B. Ross (Eds.) *The Psychology of Learning and Motivation: Skill and Strategy in Memory Use*. Vol. 48, 313-349.
 17. Malmberg, K. J. (2008). Investigating metacognitive control in a global memory framework, in J. Dunlosky and R. E. Bjork (Eds.) *Handbook of Memory and Metacognition*.
 18. ‡ **Grider, R. L.** & Malmberg, K. J. (2008). Discriminating Between Changes in Bias and Changes in Accuracy for Recognition Memory of Emotional Stimuli, *Memory & Cognition*, 36(5), 933-946.
 19. Malmberg, K. J. (2008). Recognition Memory: A Review of the Critical Findings and an Integrated Theory for Relating Them. *Cognitive Psychology*, 57, 335-384.
 20. Criss, A. H. & Malmberg, K. J. (2008). Evidence in favor of the early-phase elevated-attention hypothesis: The effects of object frequency and letter frequency, *Journal of Memory and Language*, 59, 331-345.
 21. ****Lehman, M.** & Malmberg, K. J. (in press) A global theory of remembering and forgetting from multiple lists. *Journal of Experimental Psychology: Learning, Memory, & Cognition*.
 22. Malmberg, K. J. (in preparation). On the paradoxical relationship between strength of encoding and response latencies for recognition memory

23. Malmberg, K. J. & **Hayward, D.** (in preparation). When recognizing a recent event enhances memory for a different event.
24. **Lehman, M.** & Malmberg, K. J. (in preparation). An Associative Model of Free Recall.
25. **Lehman, M.** & Malmberg, K. J. (in preparation). Overcoming the effects of intentional forgetting.

** = Masters Thesis

‡ = first-year graduate student project

BOLD = graduate student authors

BOLD = undergraduate student authors

External Service

- Organizer of the “Memory” sessions at the *3rd Annual Summer Interdisciplinary Conference*, Cavalese, Italy.
- Organizer of the “Visual Search” session at *George Sperling’s 27th Annual Interdisciplinary Conference*, Jackson Hole, WY.
- Organizer of the “Recognition Memory” session at *George Sperling’s 26th Annual Interdisciplinary Conference*, Jackson Hole, WY.
- Organizer of the *Context and Episodic Memory Symposium*, Tampa, January, 2008.
- Organizer of the *Context and Episodic Memory Symposium*, West Palm Beach, FL., January, 2009.

Editorial Boards (Consulting Editor positions)

- 2010 - *Memory & Cognition*
- 2008 - *Journal of Experimental Psychology: Learning, Memory, and Cognition*
- 2005 - 09 *Memory & Cognition*
- 2002 - 05 *Journal of Experimental Psychology: Learning, Memory, and Cognition*

Ad Hoc Reviewing

- *Cognitive Brain Research*

- *Cognitive Psychology*
- *Cognitive Science*
- *Journal of Experimental Psychology: Human Perception and Performance*
- *Journal of Experimental Psychology: Learning, Memory, and Cognition*
- *Journal of Memory and Language*
- *Journal of Personality and Social Psychology: Attitudes and Social Cognition*
- *Memory*
- *Memory & Cognition*
- *National Science Foundation*
- *Proceedings of the National Academy of Sciences*
- *Psychological Bulletin*
- *Psychological Review*
- *Psychological Science*
- *Psychonomic Bulletin & Review*
- *Quarterly Journal of Experimental Psychology*

Department Service

- 2008 - Honors Program Committee
- 2007-2008 Doug Nelson Festschrift Organizing Committee
- 2007 - USF CAS Computer Steering Committee
- 2006 - Human Subjects Committee
- 2005–2006 USF CNS Search Committee
- 2004 -2005 ISU Graduate Program Committee
- 2004 - 2005 ISU Fritz Lecture Committee

- ISU Liberal Arts and Sciences, Computer Advisory Committee
- Students of Color Support Group - University of Maryland

Professional Affiliations

- American Psychological Association
- American Psychological Society
- Psychonomic Society
- Society for Mathematical Psychology

Teaching Experience

- Introduction to Learning and Memory (ISU)
- Introduction to Memory and Cognition (Maryland)
- Experimental Methods for Cognitive Psychology (Maryland)
- Advanced Learning and Memory (ISU)
- Cognitive Seminar – Critical Thinking and Cognitive Modeling (ISU)
- Introduction to Research Methods (USF)
- Introduction to Cognition (USF)
- Issues and Applications for Current Memory Theory (USF)

Invited Colloquia and Symposia

- University of Amsterdam, October, 2000
- University of Colorado - Boulder, June, 2001
- Miami University, October, 2002
- Context and Episodic Memory Symposium, Orlando, November, 2002
- Iowa State University, December, 2003

- Context and Episodic Memory Symposium, New Orleans, November, 2003
- University of South Florida, January, 2005
- University of Memphis, March, 2005
- Context and Episodic Memory Symposium, Philadelphia, March, 2005
- Memorial Symposium in Honor of Thomas O. Nelson, Toronto, November, 2005
- Context and Episodic Memory Symposium, Tampa, January, 2008
- International Congress of Psychology, Berlin, July 2008

Conference Presentations

- Murnane, K. Phelps, M. P. & Malmberg, K. J. (1996). Context effects in Recognition Memory. *The 37th Annual Meeting of the Psychonomic Society*, Chicago, IL.
- Murnane, K. & Malmberg, K. J. (1998). Familiarity Effects in Free Recall. *The 39th Annual Meeting of the Psychonomic Society*. Los Angeles, CA.
- Malmberg, K. J. & Shiffrin, R. M. (2000). The “one-shot” hypothesis of context encoding. *Hoosier Mental Life*. South Bend, IN.
- Malmberg, K. J. & Shiffrin, R. M. (2000). The “one-shot” hypothesis of context encoding. *The 32nd Annual Meeting of Society for Mathematical Psychology*, Kingston, ON.
- Malmberg, K. J. & Shiffrin, R. M. (2000). The “one-shot” hypothesis of context encoding. *The 41st Annual Meeting of the Psychonomic Society*, New Orleans, LA.
- Malmberg, K.J. (2001). Modeling the Effects of Item Repetitions on Direct and Indirect Memory Task Performance. *The 26th Annual Interdisciplinary Conference (AIC)*, Teton Village, WY.
- Malmberg, K. J. Criss, A. H., & Shiffrin (2002). The “one-shot” hypothesis and long-term priming of perceptual identification. *Hoosier Mental Life*, Bloomington, IN.

- Malmberg, K. J. & Shiffrin, R. M. (2001). Modeling list discrimination. *The 33rd Annual Meeting of Society for Mathematical Psychology*, Providence, RI.
- Malmberg, K. J., Steyvers, M., Stephen, J. D., & Shiffrin, R. M. (2001). Feature frequency effects in recognition memory. *The 42nd Annual Meeting of the Psychonomic Society*. Orlando, FL.
- Malmberg, K. J. & Shiffrin, R. M. (2001). Modeling list discrimination. *The 34th Annual Meeting of Society for Mathematical Psychology*, Providence, RI.
- Malmberg, K. J. (2002). Effects of Similarity, Repetitions, and Normative Frequency on Memory. *The 27th Annual Interdisciplinary Conference (AIC)*, Teton Village, WY.
- Malmberg, K. J., Holden, J. E., & Shiffrin, R. M. (2002). Modeling the effects of repetitions, similarity, and normative word frequency on judgments of frequency and recognition memory. *Hoosier Mental Life*, Columbus, OH.
- Malmberg, K. J., Zeelenberg, R., & Shiffrin, R. M. (2002). Turning up the noise or turning down the volume? On the nature of the impairment of episodic recognition memory by midazolam. *The 35th Annual Meeting of Society for Mathematical Psychology*, Oxford, OH.
- Malmberg, K. J., Holden, J. E., & Shiffrin, R. M. (2002). Modeling the effects of repetitions, similarity, and normative word frequency on judgments of frequency and recognition memory. *The 35th Annual Meeting of Society for Mathematical Psychology*, Oxford, OH.
- Malmberg, K. J. (2002). The “one-shot” hypothesis of context encoding. *The 1st Annual Context and Episodic Memory Symposium (CEMS)*, Orlando, FL.
- Malmberg, K. J., Zeelenberg, R., & Shiffrin, R.M. (2002). Turning up the noise or turning down the volume? On the nature of the impairment of episodic recognition memory by midazolam. *The 43rd Annual Meeting of the Psychonomic Society*, Kansas City, MO.
- Malmberg, K. J., Zeelenberg, R., & Shiffrin, R. M. (2002). Turning up the noise or turning down the volume? On the nature of the impairment of episodic recognition memory by midazolam. *Neural Information Processing Systems (NIPS)*, Vancouver, BC.

- Sanborn, A.N. Malmberg, K. J., & Shiffrin, R.M. (2003). High-level masking effects on perceptual identification. *International Workshop on Visual Attention*, San Miniato, Italy.
- Malmberg, K. J. (2003). The Status of Single-process Models of Remember-Know Judgments: Misconceptions & Resolutions. *The 2nd Annual Context and Episodic Memory Symposium (CEMS)*, New Orleans, LA.
- Sanborn, A.N. Malmberg, K. J., & Shiffrin, R.M. (2003). High-level masking effects on perceptual identification. *The 44th Annual Meeting of the Psychonomic Society*, Vancouver, BC.
- Malmberg, K. J. (2004). The Status of Single-process Models of Remember-Know Judgments: Misconceptions & Resolutions. *The 29th Annual Interdisciplinary Conference (AIC)*, Teton Village, WY.
- Malmberg, K. J. & Xu, J. (2004). Modeling associative recognition. *The 45th Annual Meeting of the Psychonomic Society*, Minneapolis, MN.
- Malmberg, K. J. (2004). The Status of Single-process Models of Remember-Know Judgments: Misconceptions & Resolutions. *Annual Summer Interdisciplinary Conference (ASIC)*, Cavalese, Italy.
- Malmberg, K. J. & Xu, J. (2004). The Influence of Averaging and Noisy Decision Strategies on the Recognition Memory ROC. *The 37th Annual Meeting of Society for Mathematical Psychology*, Ann Arbor, MI.
- Malmberg, K. J. (2005). Modeling the Accuracy and the Latency of Recognition Memory. *The 30th Annual Interdisciplinary Conference (AIC)*, Teton Village, WY.
- Malmberg, K. J. (2005). Modeling the Accuracy and the Latency of Recognition Memory. *The 3rd Annual Context and Episodic Memory Symposium (CEMS)*, Philadelphia, PA.
- Malmberg, K. J. (2006). On the Cost and Benefit of Taking it out of Context: Modeling the Inhibition in Directed Forgetting. *The 31st Annual Interdisciplinary Conference (AIC)*, Teton Village, WY.
- Malmberg, K. J. (2006). On the Cost and Benefit of Taking it out of Context: Modeling the Inhibition in Directed Forgetting. *Annual Summer Interdisciplinary Conference (ASIC)*, Andulnase, Norway
- Malmberg, K. J., Lehman, M., & Sahakyan, L. (2006). On the Cost and Benefit of Taking it out of Context: Modeling the Inhibition Associated with Directed Forgetting, *28th Meeting of the Cognitive Science Society*,

Vancouver, BC.

- Lehman, M. & Malmberg, K. J. (2006). On the Cost and Benefit of Taking it out of Context: Modeling the Inhibition Associated with Directed Forgetting. *The Society for Mathematical Psychology 39th Annual Meeting*, Vancouver, BC.
- Brown, R. Grider, R. & Malmberg K.J. (2007). Discriminating Between Changes in Bias and Changes in Accuracy for Recognition Memory of Emotional Stimuli. *29th Meeting of the Cognitive Science Society*, Nashville, TN.
- Malmberg, K. J. (2007). Toward an Understanding of Individual Differences in Episodic Memory. The 32nd Annual Interdisciplinary Conference (AIC), Teton Village, WY.
- Malmberg, K. J. (2007). Toward an understanding of individual difference in episodic memory. *Annual Summer Interdisciplinary Conference (ASIC)*, Kalymnos, Greece,
- Grider, R. L. & Malmberg, K. J. (2008). Discriminating Between Changes in Bias and Changes in Accuracy for Recognition Memory of Emotional Stimuli. *The 4th Annual Context and Episodic Memory Symposium (CEMS)*, Tampa, FL
- Lehman, M. & Malmberg, K. J. (2008). A global memory model of forgetting and remembering from multiple lists. *The 4th Annual Context and Episodic Memory Symposium (CEMS)*, Tampa, FL
- Malmberg, K. J. (2008). The paradoxical relationship between strength and the latency recognition memory. *The 4th Annual Context and Episodic Memory Symposium (CEMS)*, Tampa, FL
- Malmberg, K. J. (2008). A global memory model of forgetting and remembering from multiple lists. *The International Congress of Psychology*, Berlin, Germany.
- Malmberg, K. J. and Lehman, M. (2008). A global memory model of forgetting and remembering from multiple lists. *The 49th Annual Meeting of the Psychonomic Society*, Chicago, IL.
- Criss, A. H. & Malmberg, K. J. and Lehman, M. (2008). Evidence in favor of the early-phase elevated-attention hypothesis: The effects of object frequency and letter frequency. *The 49th Annual Meeting of the Psychonomic Society*, Chicago, IL.

- Malmberg, K. J. & Hayward, D. (2009). Implications of Recognition Priming for Model of Recognition Memory. *The 5th Annual Context and Episodic memory Symposium (CEMS)*, West Palm Beach, FL.

Grant Activity

Individual NRSA MH12643: “Modeling the Controlled Use of Human Memory” - (~\$60K, funded)

ISU Internal: “Investigating Context-Dependent Memory in Virtual Reality Environments” - (~\$16K, funded)

NSF: “Modeling Adaptive Memory” – (~800K, not funded)

NIH AG025814: “Modeling Individual Differences in Recognition Memory” – (~\$1.95 million, not funded)

NIH AG028433: “Modeling Individual Differences in Recognition Memory” – (~275K, pending)

2008 USF International Travel Award (\$750)

References

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