
Academic Positions

- 2010 - Associate Professor, University of South Florida
- 2005 - 2010 Assistant Professor, University of South Florida
- 2003 - 2005 Assistant Professor, Iowa State University
- 2000 - 2003 NIMH Postdoctoral Fellow, Indiana University
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- University of Minnesota at Duluth, B.S., 1995, Computer Science
- University of Illinois at Urbana-Champaign, B.S., 1989, Psychology

Further Training

- USF Summer On-line Teaching Workshop, 2010
- USF NSF Innovation-CORP Graduate, Fall 2016 : Principle Investigator

Honors and Awards

- 2022 \$100,000 Research Award from Richard C. Atkinson Foundation
- 2020 Koret Foundation Award (\$50K)
- 2004 New Investigator Award, American Psychological Association, Division 3: Journal of Experimental Psychology: Learning, Memory, and Cognition
- Member of the Psychonomic Society

- 2001 - 2003 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

Books

Malmberg, K. J. (with editors). Human Memory: The General Theory and Its Various
Models, Eds. James Townsend and Steven Link. Oxfordshire, UK, Rutledge.

Peer Reviewed Publications

Google Stats.

Legend

** = Masters Thesis

‡ = first-year graduate student project

% = Doctoral Thesis

BOLD = graduate student authors

BOLD

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*, p. 265-284.
18. ‡ Grieder, 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. (2009). A global theory of remembering and forgetting from multiple lists. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 35, 970-988.
22. Lehman, M. & Malmberg, K. J. (2011). Overcoming the effects of intentional forgetting. *Memory & Cognition*, 29(2), 335-347.
23. Criss, A. H., Malmberg, K.J., & Shiffrin, R.M. (2011). Output interference in recognition memory testing. *Journal of Memory and Language*, 64(4), 316-326.
24. ‡ Malmberg, K. J., & Annis, J. (2012). On the Relationship between Memory and Perception: Sequential dependencies in recognition testing. *Journal of Experimental Psychology: General* 141(2), 233-259.
25. Malmberg, K. J., Criss, A. H., Gangwani, T. H., & Shiffrin, R. M. (2012). Overcoming the Negative Consequences of Interference that Results from Recognition Memory Testing. *Psychological Science* 23(2):115-119.
26. ‡Westfall, H. A. & Malmberg, K. J. (2013). Visual Search Enhances Subsequent Memory Search, *Memory & Cognition*, 41(2), 167-75.
27. %Lehman, M. & Malmberg, K. J. (2013). A Buffer Model of Encoding and Temporal Correlations in Retrieval, *Psychological Review* 20(1):155-89.

40. Sahakyan, L. & Malmberg (2018) Divided Attention during Encoding Causes Separate Memory Traces to be Encoded for Repeated Events. *Journal of Memory and Language* 101, 153-161.
41. Criss, A.H., Salomão, C., Malmberg, K.J., Aue, W.A., Kılıç, A., & Claridge, M. (2018). Release from Output Interference in Recognition Memory: A Test of the Attention Hypothesis. *Quarterly Journal of Experimental Psychology* 71(5), 1081-1089.
42. Chen, S., Malmberg, K.J., Prince, M., Peckoo, S., & Criss, A.H (2019). The Effect of Perceptual Information on Output Interference, *Psychonomic Bulletin & Review* 26(1), 269-278.
43. Malmberg, K. J., Raaijmakers, J.G.W., & Shiffrin, R.M. (in press). 50 Years of Research Sparked by Atkinson and Shiffrin (1968). *Memory & Cognition*, 47(4), 561-574.
44. Malmberg, K.J. & Shiffrin (2019). Featured On-line Content: Decades of Progress and Paradoxes within the Atkinson and Shiffrin Framework. S. Lewandowsky (Ed.), *Memory & Cognition*, <https://featuredcontent.psychonomic.org/page/7/>
45. Kilic, A., Fontaine, J., Malmberg, & Criss, A. H. (2021). The moderating role of feedback in item recognition. *Computation Brain & Behavior* 178-190.

In preparation.

46. Olsen, A. & Malmberg. K.J. (in prep.) Effects of Dividing Attention While Encoding on Trace Accumulation.
47. Lautwein, K., Kamp, S.M., & Malmberg, K.J. (in prep.) On the von Restorff Effect: When It Is And Is Not Observed and Why.

- 2015 Co-Editor of Policy Insights from Behavioral and Brain Sciences (PIBBS).
- 2012-2013. Guest Co-Editor of a special issue in honor of William K. Estes of Journal of Mathematical Psychology

Editorial Boards (Consulting Editor positions)

- 2019 - ... Journal of Memory and Language (Kathy Rastle, Ed.)
- 2018 - ... Journal of Experimental Psychology: Learning, Memory, and Cognition (Aaron Benjamin, Ed.)
- 2017 - ... Policy Insights from the Behavioral and Brain Sciences (PIBBS: Susan Fiske, Ed.)
- 2014 - 2020 Memory & Cognition (Neil Mulligan, Ed.)
- 2012 - 2017 Journal of Experimental Psychology: Learning, Memory, and Cognition (Robert Greene, Ed.)
- 2010 - 14 Memory & Cognition (James Nairne, Ed.)
- 2008 - 11 Journal of Experimental Psychology: Learning, Memory, and Cognition (Randi Martin, Ed.)
- 2005 - 09 Memory & Cognition (Colin MacLeod, Ed.)
- 2002 - 05 Journal of Experimental Psychology: Learning, Memory, and Cognition (Thomas O. Nelson, Ed.)

Ad Hoc Reviewing

- Artificial Intelligence
- Attention, Perception, & Psychophysics
- Behavior Research Methods
- Cognition
- Cognitive Brain Research
- Cognitive Psychology
- Cognitive Science
- Discourse Processes
- Emotion
- European Journal of Cognitive Psychology
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- Memory & Cognition
- National Science Foundation
- Neural Computation
- Proceedings of the National Academy of Sciences
- Psychological Bulletin
- Psychological Review
- Psychological Science
- Psychonomic Bulletin & Review
- Quarterly Journal of Experimental Psychology

External Service

- Organizer of the “Memory” sessions at the 3rd Annual Summer Interdisciplinary Conference, Cavalese, Italy.
- Co-Organizer of the “Visual Search” session at George Sperling’s 27th Annual Interdisciplinary Conference, Jackson Hole, WY.
- Co-Organizer of the “Recognition Memory” session at George Sperling’s 26th Annual Interdisciplinary Conference, Jackson Hole, WY.
- Co-Organizer of the 4th Annual Context and Episodic Memory Symposium, Tampa, January, 2008.
- Co-Organizer of the 5th Annual Context and Episodic Memory Symposium, West Palm Beach, FL., January, 2009.
- Co-Organizer of the “Memory” session at George Sperling’s 34th Annual Interdisciplinary Conference, Jackson Hole, WY.
- Organizing Committee of the 6th Annual Context and Episodic Memory Symposium, Philadelphia, PA, 2010.
- Organizing Committee of the 7th Annual Context and Episodic Memory Symposium, Philadelphia, PA, 2011.
- Program Committee for the 39th Annual Meeting of the Cognitive Science Society, London, UK., 2017.

University Service

- 2014 Honors College Mock Interview Member
- Coordinator for Psychology and Social Sciences USF Interdisciplinary Data Science Group.
- 2018- CAS Computer Committee
- 2019- CAS Library Committee
- 2020- CAS Undergraduate Committee

- 2021 - present Faculty Advisor to USF Women's Club Soccer Team

Department Service

- 2008 On-line Teaching Committee

- Bayesian Statistics I & II (USF)
- Introduction to Cognition – Online (USF)
- Why Normal People DO Crazy Things (USF-Honors College)
- Human Memory (USF – Honors College)
- Autobiographical Memory (USF)

Master's Degree Supervised

- Jing Xu, ISU (PhD, University California – Berkeley; Postdoc Johns Hopkins)
- Rebecca Grider, USF (Sr. MTS, Performance Engineering at VMware)
- Holly Westfall, USF

- Context and Episodic Memory Symposium, Tampa, January, 2008
- International Congress of Psychology, Berlin, July 2008
- International Conference on Memory, York, UK, 2011
- University of South Florida – St. Petersburg, 2012

- 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

- 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 Models of Recognition Memory. The 5th Annual Context and Episodic memory Symposium (CEMS), West Palm Beach, FL.
- Below, M.C., Malmberg, K. J., & Goldman, M. S. (2009). Metacognitive processing of alcohol-related information. Research Society on Alcoholism 32nd Annual Meeting.
- Lehman, M. & Malmberg, K. J. (2009). Overcoming the effects of intentional forgetting. The 50th Annual Meeting of the Psychonomic Society Boston, MA.
- Malmberg, K. J. & Hayward, D. (2009). Sequential Dependencies in Recognition Memory Testing. The 50th Annual Meeting of the Psychonomic Society Boston, MA.
- Lehman, M. & Malmberg, K. J. (2010). Rethinking buffer operations in dual-store model of memory. The 6th Annual Context and Episodic Memory Symposium (CEMS), Philadelphia, PA.
- Criss, A. H., Malmberg, K. J., & Shiffrin, R. M. (2010). Output Interference in Recognition Memory. The 51st Annual Meeting of the Psychonomic Society St. Louis, MO.

- Lehman, M. & Malmberg, K. J. (2011). Rethinking buffer operations in a dual-store model of memory. *The 5th*

- Annis, J. & Malmberg, K.J. (2015). A Bayesian Approach to Discriminating Between Biased and Sequential Dependencies in Binary Choice Data. The 55th Annual Meeting of the Psychonomic Society, Chicago.
- Malmberg, K.J. (2016). Toward a model of the problem of autobiographical memory. Festschrift for Jeroen G.W. Raaijmakers, Amsterdam, Netherlands.
- Malmberg, K.J. (2016). Toward a model of the problem of autobiographical memory. Annual Summer Interdisciplinary Conference, Val Gardena, Italy.
- Malmberg, K.J., Palmer, J., Erb, K. Mostafa, S. (2016). Toward a model of the problem of autobiographical memory. . The 56th Annual Meeting of the Psychonomic Society, Boston.

Grant Activity

Individual NRSA MH12643: “Modeling the Controlled Use of Human Memory” - (~\$60K, funded, 2000-2001)

ISU Internal: “Investigating Context-Dependent Memory in Virtual Reality Environments” - (~\$16K, funded, 2005)

NIH AG025814: “Modeling Individual Differences in Recognition Memory” – (~\$1.95 million, not funded, 2005)

NIH AG028433: “Modeling Individual Differences in Recognition Memory” – (~\$275K, not funded, 2007)

USF International Travel Award, The International Congress of Psychology, Berlin, Germany (\$750, funded, 2008)

ITOPP: “Enhancing Psychological Education with On-line Teaching Technologies”, (\$2000, funded, July, 2009)

2011 USF International Travel Award, 5th International Conference on Memory, New York, U.K. (\$750, funded, 2008)

2016 NIH NEUROPSYCHOLOGICAL ASSESSMENT OF RIGHT MESIAL TEMPORAL LOBE FUNCTION (\$220,092, not funded)

National Science Foundation

Received by	Requested	Program	Proposal	Amount	PI	Agency	Number	Status
Normal Models of Autobiographical Memory	Pending	08/09/2017	08/01/2017	\$733,930.00	Lawrence Gottlob	BCS	1754252	F
The Role of Summary Statistical Representation in Memory Retrieval	Declined	01/19/2017	07/29/2016	\$442,507.00	Catherine Arrington	BCS	1655180	T
Model of Autobiographical Memory	Declined	01/06/2014	09/01/2014	\$52,064.00	Betty H. Tuller	BCS	1621578	NCS 50
Understanding Sequential Dependencies in Perception and Memory via Computational Models of Neural and Behavioral Data	Declined	11/17/2014	09/01/2014	\$644,718.00	Betty H. Tuller	BCS	1457104	SF
PFI:BIC: Technology to Monitor Cognitive States and Improve Human Learning and Cognition	Declined	07/02/2014	01/27/2014	\$799,348.00		N/A	IIP	143

Division	Proposal	Proposal Title	Status	Status Date	Received by	Requested	Program
BCC	1330208	Collaborative Research Gottlieb	Declined	06/27/2012	01/21/2012	0544	106-00
							Neuroeconomics of Adaptive