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# Learning and Memory: From Brain to Behavior

By Mark A. Gluck, Eduardo Mercado, Catherine E. Myers



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Gluck, Mercado and Myers's *Learning and Memory* is the first textbook developed from its inception to reflect the convergence of brain studies and behavioral approaches in modern learning and memory research incorporating findings both in animals and humans. Each chapter integrates coverage of both human memory *and* animal learning, with separate sections specifically devoted to behavioral processes, brain systems, and clinical perspectives.



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**Learning and Memory: From Brain to Behavior** By Mark A. Gluck, Eduardo Mercado, Catherine E. Myers **Bibliography**

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## **Editorial Review**

### **Review**

The authors do an excellent job presenting the emerging trends. The real-life examples will be helpful for students. I would certainly refer to many of these in my lectures.

*John Byrnes, Ph.D., Tufts University of Medicine, UMASS Boston*

The greatest strength of this text is the constant use of relatable real world examples. Many other texts talk mainly about rats and do not relate topics to everyday life. Another strength is the blending of basic learning with brain substrates and clinical applications. Few texts do this.

*Professor Todd Allen, University of Northern Colorado*

Finally, someone writes a chapter on memory that isn't boring! Finally, someone writes a chapter on a cognitive topic that does not confuse or hide the importance of memory behind a plethora of boring human studies! Hurray and bravo!

*Lorna Joachim, University of New Mexico*

### *Students Say*

I really understood each topic. I like how the author discusses the concept with detailed descriptions about real life events. It helps me understand how this research related to the world around us and how it affects our everyday lives.

*Kimberly Skotarczak, SUNY Buffalo*

The discussions were very interesting because they were told in ways that were easily relatable. This book did not have the boring, dry material that you find in most textbooks.

*Jessie Newman, University of Northern Colorado*

I really thought the text was exciting and interesting, the use of pop culture brought the science to a new level, and the information became more interesting because we could see how it could be applied.

*Kimberly Seeherman, Princeton University*

### **About the Author**

Mark A. Gluck is a Professor of Neuroscience at Rutgers University–Newark, co-director of the Memory Disorders Project at Rutgers–Newark, and publisher of the project's public health newsletter, Memory Loss and the Brain. His research focuses on the neural bases of learning and memory, and the consequences of memory loss due to aging, trauma, and disease. He is co-author of *Gateway to Memory: An Introduction to Neural Network Modeling of the Hippocampus and Learning* (MIT Press, 2001). In 1996, he was awarded an NSF Presidential Early Career Award for Scientists and Engineers by President Bill Clinton. That same year, he received the American Psychological Association (APA) Distinguish Scientific Award for Early Career Contribution to Psychology.

Eduardo Mercado is an Assistant Professor of Psychology at University at Buffalo, The State University of New York. His research focuses on how different brain systems interact to develop representations of experienced events, and how these representations change over time. Dr. Mercado currently uses techniques

from experimental psychology, computational neuroscience, electrical engineering, and behavioral neuroscience to explore questions about auditory learning and memory in rodents, cetaceans, and humans.

Catherine E. Myers is a Research Professor of Psychology at Rutgers University–Newark, co-director of the Memory Disorders Project at Rutgers–Newark, and Editor-in-Chief of the project's public health newsletter, Memory Loss and the Brain. Her research includes both computational neuroscience and experimental psychology, and focuses on human memory, specifically on memory impairments following damage to the hippocampus and associated brain structures. She is co-author of *Gateway to Memory: An Introduction to Neural Network Modeling of the Hippocampus and Learning* (MIT Press, 2001) and author of *Delay Learning in Artificial Neural Networks* (Chapman and Hall, 1992).

## **Users Review**

### **From reader reviews:**

#### **Sam Holmes:**

This book untitled *Learning and Memory: From Brain to Behavior* to be one of several books that will best seller in this year, here is because when you read this reserve you can get a lot of benefit onto it. You will easily to buy this kind of book in the book retail store or you can order it via online. The publisher of the book sells the e-book too. It makes you more readily to read this book, because you can read this book in your Touch screen phone. So there is no reason to you to past this publication from your list.

#### **Ella Oxley:**

Playing with family inside a park, coming to see the water world or hanging out with close friends is thing that usually you might have done when you have spare time, and then why you don't try issue that really opposite from that. A single activity that make you not experience tired but still relaxing, trilling like on roller coaster you already been ride on and with addition details. Even you love *Learning and Memory: From Brain to Behavior*, you can enjoy both. It is fine combination right, you still wish to miss it? What kind of hang-out type is it? Oh seriously its mind hangout folks. What? Still don't get it, oh come on its referred to as reading friends.

#### **Leonie Blazek:**

Many people spending their moment by playing outside together with friends, fun activity together with family or just watching TV the whole day. You can have new activity to enjoy your whole day by reading a book. Ugh, ya think reading a book can definitely hard because you have to bring the book everywhere? It okay you can have the e-book, delivering everywhere you want in your Mobile phone. Like *Learning and Memory: From Brain to Behavior* which is having the e-book version. So , why not try out this book? Let's observe.

#### **Andre Barrett:**

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