



Exponent[®]
Engineering & Scientific Consulting

Iona D. Scully, Ph.D.

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Professional Profile

Dr. Scully is a cognitive psychologist with over 10 years of experience in human memory and cognition. Her work focuses on understanding the various factors that can affect memory and recall. Since joining Exponent, she has applied this expertise to the investigation of human factors in transportation accidents, slips and falls, product warnings, and safety information.

Prior to joining Exponent, Dr. Scully's graduate work focused on examining how memory modification techniques can be used to update attitudes toward others. Additionally, Dr. Scully has also examined the impact of collaborative remembering and the strength of memory reactivation on long term memory change. Dr. Scully has expertise in several statistical and research methodologies including quantitative data analysis, meta-analysis, and electrodermal activity (EDA) data collection and analysis.

Academic Credentials & Professional Honors

Ph.D., Psychology, Lehigh University, 2019

M.A., Psychology, Towson University, 2014

B.S., Psychology, Elmira College, 2011

Graduate Student Life Leadership Award, Lehigh University, 2019

College of Arts and Sciences Graduate Student Research Grant, Lehigh University, 2018

College of Arts and Sciences Leadership and Service Award, Lehigh University, 2018

Distinguished Graduate Student Award, Towson University, 2014

Cowles Honor Scholar, Elmira College, 2007-2011

Presidential Honor Scholarship, Elmira College, 2007-2011

Prior Experience

Adjunct Professor, Statistical Analysis of Behavior, Lehigh University, 2017

Research Assistant, Lehigh University Language and Thought Lab, 2016-2017

Adjunct Professor, Cognitive Psychology, Lehigh University, 2015

Statistical Consultant, Dr. Susan Sperry, 2013

Professional Affiliations

Human Factors and Ergonomics Society, 2019-Present

Association for Women in Science, 2017-Present

Psychonomics Society, 2014-Present

Association for Psychological Science, 2010-Present

National Association for Graduate and Professional Students, 2018-2019

Cognitive Science Society, 2016-2017

Publications

Scully ID, Hupbach A. Directed forgetting affects how we remember and judge other people. *Journal of Applied Research in Memory and Cognition*, 2020; 9(3):336-344.

Scully ID, Hupbach A. Different reactivation procedures enable or prevent episodic memory updating. *Hippocampus* 2019; 30(8):806-814.

Scully ID, Napper LE, Hupbach A. Does reactivation trigger episodic memory change? A meta-analysis. *Neurobiology of Learning and Memory* 2017; 142(A):99-107.

Sperry SD, Scully ID, Gramzow RH, Jorgensen RS. Sleep duration and waist circumference in adults: a meta-analysis. *Sleep* 2015; 38 (8):1269-1276.

Scully I.D, Terry CP. Self-referential memory for the Big-Five personality traits. *Psi Chi Journal of Undergraduate Research* 2011; 16(3):123-128.

Presentations

Scully ID, Napper LE, Hupbach A. Does Reactivation Trigger Episodic Memory Change? A Meta-Analysis. Poster presented at the International Conference on Psychological Science, Paris, France, 2019.

Malt BC, Scully ID, Lebkuecher A, Joseph J. Dynamic updating of native language constructions. Paper presented at the 2018 meeting of the Psychonomics Society, New Orleans, LA, 2018.

Hupbach A, Scully ID. Modifying human episodic memories: reactivation as a precondition for change. Paper Presented at the 2018 International Conference of Behavioral Neuroscience, Boca Raton, FL., 2018.

Hupbach A, Scully ID. Is Reactivation a Precondition for Episodic Memory Change? Paper presented at the 2018 meeting of the International Conference on Learning and Memory, Huntington Beach, CA., 2018.

Scully ID, Hupbach A. How reactivation strength affects memory updating. Poster presented at the 2017 meeting of the Cognitive Science Society, London, UK, 2017.

Scully ID, Napper LE, Hupbach A. Does Reactivation Trigger Episodic Memory Change? A Meta-Analysis. Poster presented at the 2017 Interdisciplinary Neuroscience Symposium, Bethlehem, PA, 2017.

Scully ID, Hupbach A. Memory Reconsolidation: Strength of Reactivation Modulates the Impact of New Learning on Reactivated Memories. Paper presented at the 2016 meeting of International Conference on Memory, Budapest, Hungary, 2016.

Scully I.D., Hupbach A. Does Reactivation Trigger Episodic Memory Change? A Meta-Analysis. Poster presented at the 2016 meeting of the Psychonomics Society, Boston, MA, 2017.

Scully ID, Hupbach A. Memory Reconsolidation: Strength of Reactivation Modulates the Impact of New Learning on Reactivated Memories. Paper presented at the 2016 meeting of the Eastern Psychological Association, New York, NY, 2016.

Scully ID, Hupbach A. Memory Reconsolidation: Strength of Reactivation Modulates the Impact of New Learning on Reactivated Memories. Poster presented at the 2015 meeting of the Psychonomics Society, Chicago, IL, 2015.

Scully ID, Goodwin KA, Pararas B. Preventing the disruption: Does previous collaborative recall cancel out reconsolidation disruption? Poster presented at the 2014 meeting of the Psychonomics Society, Long Beach, CA, 2014.

Scully ID, Terry CP. Self-Referential Memory for the Big-Five Personality Traits. Poster presented at the Elmira College 2010-2011 Student Research Poster Session, Elmira, NY, 2011.

Scully ID, Terry C. Self-Referential Memory for the Big-Five Personality Traits. Poster presented at the 2011 Eastern Psychological Association Annual Conference, Cambridge, MA, 2011.

Scully ID. Does semantic priming cause the isolation effect? Poster presented at the Elmira College 2010 Parents Weekend Student Research Poster Session, Elmira, NY, 2010.

Scully ID. Does semantic priming cause the isolation effect? Poster presented at the Elmira College 2009-2010 Student Research Poster Session, Elmira, NY, 2010.

Scully ID, Lovett BJ. ADHD and extra time on tests. Poster presented at 25th Annual University of Scranton Psychology Conference, Scranton, PA, 2010.

Scully ID, Kilgour M. Words remembered using visual, auditory, and rote memorization techniques. Poster presented at Elmira College Student Research Poster Session, Elmira, NY, 2009.

Other Articles

Scully ID, Scally S, Clark R, Carey MR, Cades DM, Harrington R. Safety and Regulatory Considerations of Advanced Driver Assistance Systems (ADAS). Article in American Bar Association Tort Trial and Insurance Practice Section's Committee News; Fall 2020.

Peer Reviewer

Neurobiology of Learning and Memory