

Kelly Cotton

PhD Candidate, Cognitive Psychology

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Education

PhD, Psychology Present
The Graduate Center, City University of New York
Dissertation: Understanding the relationship between working memory and long-term memory

MPhil, Psychology 2021
The Graduate Center, City University of New York

MA, Psychology 2020
The Graduate Center, City University of New York
Thesis: Working memory consolidation improves long-term memory recognition

BS, Brain and Cognitive Sciences 2015
BA, Linguistics 2015
University of Rochester

Grants

Doctoral Student Research Grant, The Graduate Center, CUNY (\$1500) 2022
The impact of stress on the relationship between working memory and long-term memory

Doctoral Student Research Grant, The Graduate Center, CUNY (\$1350) 2020
The role of creativity in the relationship between short-term consolidation and long-term memory

Fellowships, Honors, and Awards

Psychology Travel Award, The Graduate Center, CUNY 2022

Psychology Fellowship, The Graduate Center, CUNY 2020

Data for Public Good Fellowship, The Graduate Center, CUNY 2020

Second Place Overall for "Project Fovea", NYC Media Lab '19 2019

Graduate Center Fellowship, The Graduate Center, CUNY 2018 - 2023

Publications

Cotton, K., Sandry, J. & Ricker, T.J. (Under review) Secondary task engagement drives the McCabe effect in long-term memory.

Cotton, K. & Ricker, T.J. (2022). Is there a role of creativity in the relationship between working memory consolidation and long-term memory? *Attention, Perception, and Psychophysics*. [doi:10.3758/s13414-022-02598-w](https://doi.org/10.3758/s13414-022-02598-w)

Cotton, K. & Ricker, T.J. (2022). Examining the relationship between working memory consolidation and long-term consolidation. *Psychonomic Bulletin and Review*, 29(5), 1625-1648. [doi: 10.3758/s13423-022-02084-2](https://doi.org/10.3758/s13423-022-02084-2)

Cotton, K. & Ricker, T.J. (2021). Working memory consolidation improves long-term memory recognition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 47(2), 208-219. doi:10.1037/xlm0000954

Cotton, K., Verghese, J., & Blumen, H. M. (2020). Gray Matter Volume Covariance Networks, Social Support, and Cognition in Older Adults. *The Journals of Gerontology: Series B*, 75(6), 1219-1229. doi:10.1093/geronb/gbz023

Mahoney, J. R., **Cotton, K.**, & Verghese, J. (2019). Multisensory integration predicts balance and falls in older adults. *The Journals of Gerontology: Series A*, 74(9), 1429-1435. doi:10.1093/gerona/gly245

Lin, F., Ren, P., **Cotton, K.**, Porsteinsson, A., Mapstone, M., & Heffner, K. L. (2016). Mental Fatigability and Heart Rate Variability in Mild Cognitive Impairment. *The American Journal of Geriatric Psychiatry*, 24(5), 374-378. doi:10.1016/j.jagp.2015.12.012

MANUSCRIPTS

Cotton, K., Sandry, J. & Ricker, T. J. (in preparation). The effect of mind-wandering and cognitive load on working memory performance in online and in-person experiments.

Cotton, K. & Ricker, T.J. (in preparation). The impact of stress on the relationship between working memory and long-term memory.

Conference Presentations

§ indicates first author was high school mentee

Cotton, K. & Ricker, T. J. (2022, November). How does stress affect working memory consolidation? Poster presented at the 63rd Annual Meeting of the Psychonomic Society, Boston, Massachusetts.

Dayalu, V., Hebert, K., Grabowski, C., **Cotton, K.**, & Patel, S. (2022, November). Examining the relationship between task-switching and speech errors in Parkinson's disease. Poster presented at the 99th Annual Meeting of the American Congress of Rehabilitation Medicine, Chicago, Illinois.

Cotton, K., Sandry, J., & Ricker, T. J. (2022, June). How does mind-wandering influence working memory performance across cognitive load and environmental conditions? Talk presented at the 3rd Annual Working Memory Symposium, Virtual.

§Irvine, Z. & §Larkin, M. (2022, June). Music and the brain. Poster presented at 9th Annual Student Research Colloquium, New York, New York.

§Farley, L. (2022, June). The effects of age on cognitive processing. Poster presented at 9th Annual Student Research Colloquium, New York, New York.

Cotton, K., Sandry, J., & Ricker, T.J. (2022, March). Mind-wandering and cognitive load effects on working memory performance across experimental contexts. Poster presented at 93rd Annual Eastern Psychological Association, New York, New York.

Cotton, K. & Ricker, T. J. (2021, November). How do mind-wandering, cognitive load, and environment affect working memory? Poster presented at the Annual Harvard Women in Psychology Trends in Psychology Summit, Virtual.

McCray, M.M., **Cotton, K.** & Ricker, T. J. (2021, November). Predicting Working Memory Performance: Is Perceived Workload a Better Predictor Than Cognitive Load? Poster presented at the *Annual Harvard Women in Psychology Trends in Psychology Summit*, Virtual.

Cotton, K. & Ricker, T. J. (2021, November). The effect of mind-wandering and cognitive load on working memory performance in online and in-person experiments. Poster presented at the *62nd Annual Meeting of the Psychonomic Society*, Virtual.

McCray, M.M., **Cotton, K.** & Ricker, T. J. (2021, November). Working Memory Performance: Is Subjective Measurement a Better Predictor than Cognitive Load? Poster presented at the *62nd Annual Meeting of the Psychonomic Society*, Virtual.

Koorathota, S., Adelman, P., **Cotton, K.**, & Sajda, P. (2021, October). Editing Like Humans: A Contextual, Multimodal Framework for Automated Video Editing. Talk presented at the *AI for Creative Video Editing and Understanding*, Virtual.

McCray, M.M., **Cotton, K.**, & Ricker, T.J. (2021, September). Does perceived workload better predict working memory performance than cognitive load? Poster presented at *South Dakota Psychological Association Annual Conference*, Rapid City, South Dakota.

Koorathota, S., Adelman, P., **Cotton, K.**, & Sajda, P. (2021, June). Editing Like Humans: A Contextual, Multimodal Framework for Automated Video Editing. Talk presented at the *IEEE/CVF Conference on Computer Vision and Pattern Recognition*, Virtual.

Cotton, K. & Ricker, T. J. (2021, June). Consolidating a lasting memory: The role of creativity in the relationship between working memory and long-term memory. Talk presented at the *2nd Annual Virtual Working Memory Symposium*, Virtual.

§Alamir, H., § Archie, C. & §Conner, L. (2021, June) The effect of fast, medium and slow tempo classical music on working memory and processing speed. Talk presented at *BioBus Junior Scientist Research Symposium*, Virtual.

Cotton, K. & Ricker, T. J. (2021, May). Does creativity influence working memory effects on long-term memory? Talk presented at the *12th Annual Psychology Research Day*, Virtual.

Cotton, K. & Ricker, T. J. (2020, November). The Role of Creativity in the Relationship between Working Memory Consolidation and Long-Term Memory. Poster presented at the *61st Annual Meeting of the Psychonomic Society*, Virtual.

Cotton, K. & Ricker, T. J. (2019, November). Working Memory Consolidation Improves Long-Term Memory Recognition in Words and Non-words. Poster presented at the *60th Annual Meeting of the Psychonomic Society*, Montreal, Quebec, Canada.

Cotton, K. & Ricker, T. J. (2019, October). Working Memory Consolidation Improves Long-Term Memory Recognition. Talk presented at the *Cognitive and Comparative Psychology Colloquium*, Graduate Center of the City University of New York, New York, New York.

Koorathota, M., Adelman, P., & **Cotton, K.** (2019, September). Project Fovea: Attention-Guided Video Production. Poster presented at the *NYC Media Lab Demo Expo*, New York, New York.

Cotton, K., Jacobs, A., Ren, P., & Lin, F. (2015, November). Mechanisms Linking Depression and Cognitive Impairment: A Systematic Review of Neuroimaging Studies. Poster presented at the *Annual Meeting of The Gerontological Society of America*, Orlando, Florida.

Invited Talks

Cotton, K. (2022, March). Making working memory work. Biobus, New York, New York.

Cotton, K. (2022, February). Understanding the relationship between working memory and long-term memory. University of South Dakota, Vermillion, South Dakota.

Cotton, K. (2021, May). Consolidating a lasting memory. University of Geneva, Geneva, Switzerland.

Mentorship

#=undergraduate, \$=high school

Brooklyn College, City University of New York

Liz Cortes[#] 2021 - Present

- NIH Maximizing Access to Research Careers (MARC) Program participant

Biobus

Ariel Andrade^{\$}, Matthew Diaz^{\$} 2023

Miles Larkin^{\$}, Zion Irvine^{\$}, Lisa Farley^{\$} 2022

Lauren Conner^{\$}, Chosen Archie^{\$}, Hamza Alamgir^{\$} 2021

Teaching Experience

Lehman College, City University of New York

Cognitive Psychology (Adjunct Instructor) Spring, Fall 2021

City College, City University of New York

Thinking, Knowing, Remembering (Teaching Assistant) Fall 2019 - Spring 2022

Research Experience

Graduate Research Assistant, *Memory and Metacognition Lab* 2020 - Present

Dept. of Psychology, Brooklyn College

Supervisor: Dr. Elizabeth Chua

Graduate Research Assistant, *Memory and Attention Lab* 2018 - Present

Dept. of Psychology, College of Staten Island/University of South Dakota

Supervisor: Dr. Timothy Ricker

Research Assistant, *Cognitive Remediation (CREM) Study* 2015 - 2019

Dept. of Neurology, Albert Einstein College of Medicine

Supervisors: Dr. Joe Verghese and Dr. Roe Holtzer

Additional Training

Online Teaching Essentials course 2021

ACUE Effective Teaching Practices course 2020

Teach@CUNY Summer Institute 2019

Science Outreach

Science Communication Intern, Psychonomic Society 2023 - Present
Wrote posts for the Psychonomic Society's Feature Content blog

Community Science Fellow, BioBus 2019 - Present
Mentored high school interns on experimental and science communication projects; led activities for "Saturday Science" neuroscience outreach program for families and community members

"Function" Youtube Series 2017 - 2020
Served as scientific consultant and data analyst for series of videos on innovative applications of eye-tracking technology and other scientific topics

Professional Services and Activities

PROFESSIONAL MEMBERSHIP

Psychonomic Society (2019 - Present), Eastern Psychological Association (2022 - Present)

AD-HOC REVIEWER

Advances in Methods and Practices in Psychological Science, Nature Scientific Reports, Quarterly Journal of Experimental Psychology