

David J. Frank, Ph.D.

Department of Psychological and Special Education

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Academic Positions

Assistant Professor <i>Texas A&M University-Commerce</i>	2017-Present
Post-Doctoral Researcher <i>Case Western Reserve University</i> Supervisor: Brooke Macnamara	2015-2017
Pre-Doctoral Adjunct Professor <i>South University (High Point campus)</i> Supervisor: Edward Morris	2014

Education

Ph.D., Cognitive Psychology <i>University of North Carolina at Greensboro</i> Dissertation title: <i>Aging and Task Representation Updating.</i> Advisor: Dayna R. Touron	2012-2015
M.A., Cognitive Psychology <i>University of North Carolina at Greensboro</i> Thesis title: <i>Metacognitive Age Differences in Strategy Shift: Retrieval Avoidance or General Shift Reluctance?</i> Advisor: Dayna R. Touron	2009-2012
B.A., Psychology <i>Kent State University</i>	2000-2005

Publications

Macnamara, B. N., Hambrick, D. Z., **Frank, D. J.**, King, M. J., Burgoyne, A. P., & Meinz, E. J. (in press). Deliberate practice and the deliberate practice view. In D. Z. Hambrick, G. Campitelli, & B. N. Macnamara (Eds.), *The Science of Expertise: Behavioral, Neural, and Genetic Approaches to Complex Skill*. London: Psychology Press, Routledge.

- Macnamara, B. N., & **Frank, D. J.** (2018). How do task characteristics affect learning and performance? The roles of variably mapped and dynamic tasks. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. <https://doi.org/10.1037/xlm0000487>
- Frank, D. J.**, & Macnamara, B. N. (2017). Does the acquisition of spatial skill involve a shift from algorithm to memory retrieval? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *43*(12), 1845-1856. <http://dx.doi.org/10.1037/xlm0000429>
- Frank, D. J.**, & Kuhlmann, B. G. (2017). More than just beliefs: Experience and beliefs jointly contribute to volume effects on metacognitive judgments. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *42*(10), 680–693. <http://doi.org/10.1037/xlm0000332>
- Frank, D. J.**, & Touron, D. R. (2016). The Role of Task Understanding on Younger and Older Adults' Performance. *The Journals of Gerontology. Series B, Psychological Sciences and Social Sciences*, *0*(0), gbw165. <https://doi.org/10.1093/geronb/gbw165>
- Frank, D. J.**, Jordano, M. L., Browne, K., & Touron, D. R. (2016). Older adults' use of retrieval strategies in everyday life. *Gerontology*, *62*(6), 304-324. doi:10.1159/000446277
- Frank, D. J.**, Nara, B., Zavagnin, M., Touron, D. R., & Kane, M. J. (2015). Validating older adults' reports of less mind-wandering: An examination of eye-movements and dispositional influences. *Psychology and Aging*, *30*(2), 266-278. doi:10.1037/pag0000031
- Frank, D. J.**, Touron, D. R., & Hertzog, C. (2013). Age differences in strategy shift: Retrieval avoidance or general shift reluctance? *Psychology and Aging*, *28*(3), 778-788. doi:10.1037/a0030473
- Touron, D. R., Hertzog, C., & **Frank, D.** (2010). Eye movements and strategy shift in skill acquisition: Adult age differences. *Journal of Gerontology: Psychological Sciences*, *66B*(2), 151–159. doi:10.1093/geronb/gbq076.

Manuscripts Under Review

- Demaree, H. A., Kotynski, A. E., **Frank, D. J.**, Macnamara, B. N., & Burns, K. J. (under review). Act as if you've seen nothing: Relative to seeing neutral- and sad-inducing slides, fear causes people to act as if they've seen nothing at all.

Manuscripts in Preparation

- Frank, D. J., & Kuhlmann, B. G.** (in analysis). Are metamemory beliefs memory-specific, fluency-specific, or domain general?
- Frank, D. J., & Macnamara, B. N.** (in data collection). Item-specific improvement in spatial skill acquisition: Retrieval shift or item-specific algorithmic speed-up?
- Frank, D. J., Demaree, H. A., & Macnamara, B. N.** (in data collection). The role of individual differences in risk learning: Who learns to place optimal wagers?
- Frank, D. J. & Macnamara, B. N.** (in data collection). How do task characteristics affect learning and performance? The roles of simultaneous, continuous, and interactive tasks
- Frank, D. J., Pugh, Z., & Touron, D. R.** (in data collection). Mental model updating on a novel chemistry task.

Academic Presentations

- Frank, D. J., & Macnamara, B. N.** (2017, November). *How Task Characteristics and Cognitive Resources Interact to Predict Performance: Sequential and Simultaneous Task Environments*. Poster presented at the 2017 Psychonomic Society Conference, Vancouver, BC.
- Frank, D. J., & Macnamara, B. N.** (2017, May). *Algorithm to Memory Retrieval Strategy Shifts During Spatial Skill Acquisition*. Paper presented at the 2017 Association for Psychological Sciences Conference, Boston, MA.
- Frank, D. J., & Macnamara, B. N.** (2016, November). *How Task Characteristics and Cognitive Resources Interact to Predict Performance: Learning in a Static Versus a Dynamic Task Environment*. Poster presented at the 2016 Psychonomic Society Conference, Boston, MA.
- Frank, D. J., & Macnamara, B. N.** (2016, May). *Does the Acquisition of Spatial Skill Involve a Shift from Algorithm to Memory Retrieval?* Poster presented at the 2016 Association for Psychological Sciences Conference, Chicago, IL.
- Frank, D. J., & Macnamara, B. N.** (2016, April). *Does Spatial Skill Acquisition Benefit from a Shift from Algorithm to Memory Retrieval?* Paper presented at the Midwestern Psychological Association Conference, Chicago, IL.
- Macnamara, B. N., & **Frank, D. J.** (2016, April). *The Role of Task Demands in Predicting Performance*. Paper presented at the *Skill Acquisition and Expertise* Symposium at the 2016 Midwestern Psychological Association Conference, Chicago, IL.

- Frank, D. J., & Touron, D. R.** (2016, April). *When age doesn't matter: Potential explanations for age equivalence on a novel and complex learning task*. Poster presented at the 2016 Cognitive Aging Conference, Atlanta, GA.
- Frank, D. J., & Touron, D. R.** (2015, November). *Aging and task representation updating*. Poster presented at the 2015 Psychonomic Society Conference, Chicago, IL.
- Frank, D. J., & Touron, D. R.** (2015, May). *Aging and task representation updating*. Paper presented at the 2015 University of North Carolina at Greensboro Big Phat Day of Research, Greensboro, NC.
- Frank, D. J., & Touron, D. R.** (2014, November). *A mental model approach to aging and strategy selection*. Poster presented at the 2014 Gerontological Society of America Conference, Washington, DC.
- Frank, D. J., & Jordano, M. L.** (2014, November). *Age differences in strategy use for everyday tasks: A daily diary study*. Poster presented by M. L. Jordano at the 2014 Gerontological Society of America Conference, Washington, DC.
- Frank, D. J., & Touron, D. R.** (2014, April). *Can concept mapping techniques measure task representation in younger and older adults*. Poster presented at the 2014 Cognitive Aging Conference, Atlanta, GA.
- Frank, D. J., & Touron, D. R.** (2014, April). *Age invariance in mental model formation*. Poster presented to the 2014 North Carolina Cognition Conference, Durham, NC.
- Frank, D. J., Nara, B., Zavagnin, M., Touron, D. R., & Kane, M. J.** (2014, November). *Why does mind wandering decrease with age?* Paper presented at the 2014 Psychonomic Society Conference, Toronto, ON.
- Frank, D. J., Touron, D. R., & Brown, K. P.** (2012, November). *Age differences in strategy use for everyday tasks: A daily diary study*. Poster presented at the 2012 Psychonomic Society Conference, Minneapolis, MN.
- Frank, D. J., Touron, D. R., & Hertzog, C.** (2012, April). *Mental Models Influence Older and Younger Adults' Differential Shift to Selective Attention and Retrieval Strategies*. Poster presented at the 2012 Cognitive Aging Conference, Atlanta, GA.
- Frank, D. J., Touron, D. R., & Hertzog, C.** (2011, November). *Metacognitive age differences in strategy shift: Retrieval avoidance or general shift reluctance?* Poster presented at the 2011 Psychonomic Society Conference, Seattle, WA.
- Frank, D., Touron, D. R., & Hertzog, C.** (2009). *Eye movements and strategy shift in skill acquisition: Adult age differences*. Paper presented at the *Metacognitive Aging: Spared*

monitoring, impaired control? Symposium at the 2010 Southeastern Psychological Association, Chattanooga, TN.

Public Presentations and Outreach

Frank, D. J. (August, 2011). *Healthy aging for the mind*. Senior Resources of Guilford, Greensboro, NC.

Frank, D. J. (July, 2011). *Healthy aging for the mind*. Smith Senior Center, Greensboro, NC.

Frank, D. J. (July, 2011). *Healthy aging for the mind*. TV promotion on FOX8-WGHP Morning News, Greensboro, NC.

Frank, D. J. (June, 2011). *Healthy aging for the mind*. Smith Senior Center, Greensboro, NC.

Media Coverage

Research featured in

BYU Radio Matt Townsend Show
The Conversation

2017
2017

Awards

National Science Foundation

How Individual Differences and Task Characteristics Interact to Predict Performance
Co-PI: David Frank; Co-PI: Brooke Macnamara
Under review

2017

Army Research Institute

How Individual Differences and Task Characteristics Interact to Predict Performance
Co-PI: David Frank; Co-PI: Brooke Macnamara
Not funded

2017

George and Beatrice Goldman Fisher Gerontology Dissertation Prize

Awarded by: UNCG Graduate School
Award amount: \$1,000

2015

Conference of Southern Graduate Schools Master's Thesis Award for
Social Sciences, Business, and Education

Awarded by: The Conference of Southern Graduate Schools
Award amount: \$1,000 plus travel costs

2014

John W. Lindsey Memorial Award

Awarded by: UNCG Psychology Department
Award amount: \$750

2013

Hester Award Awarded by: UNCG Graduate School Award amount: \$1,000	
UNCG Outstanding Master's Thesis Award Awarded by: UNCG Graduate School	2013
Inclusiveness Fellowship Award Awarded by: UNCG Graduate School Award amount: \$9,000	2012
Graduate Student Association Travel Award Awarded by: UNCG Graduate Student Association Award amount: \$400	2011
UNCG Psychology Department Summer Funding Awarded by: UNCG Psychology Department Award amount: \$1,500	2010
Graduate Student Association Travel Award Awarded by: UNCG Graduate Student Association Award amount: \$400	2010
Graduate Student Association Travel Award Awarded by: UNCG Graduate Student Association Award amount: \$300	2009

Teaching Experience

Instructor of Record

Texas A&M University – Commerce

Independent Study (Topic: Social Cognition)	Summer 2018
Developmental Psychology (graduate)	Summer 2018
Learning Theories and Practice (online)	Summer 2018
Learning Theories and Practice	Spring 2018
Introduction to Psychology	Spring 2017
Introduction to Psychology	Fall 2017

University of North Carolina at Greensboro

Cognitive Psychology	Spring 2015
Psychology and Aging (online)	Fall 2014
Psychology and Aging (online)	Spring 2014

Cognitive Psychology Summer 2014

South University (predoctoral adjunct teaching)

General Psychology Spring 2014
Social Psychology Spring 2014
Social Psychology Lab Spring 2014

Teaching Assistantships

University of North Carolina at Greensboro

Research Methods and Statistics II (lab instructor & head TA) Fall 2013
Cognitive Psychology (guest lecturer & TA) Spring 2013
Psychology and Aging (TA) Fall 2012
Research Methods and Statistics I (lab instructor & TA) Spring 2012
Research Methods and Statistics II (lab instructor & head TA) Fall 2011
Research Methods and Statistics I (lab instructor & TA) Spring 2011
Research Methods and Statistics II (lab instructor & TA) Fall 2010
General Psychology (TA) Spring 2010
Psychology and Aging (TA) Fall 2009

Professional Service and Memberships

Reviewing

Ad hoc Reviewer for Aging, Neuroscience, and Cognition
Ad hoc Reviewer for Cognitive Psychology
Ad hoc Reviewer for Journal of Gerontology: Psychological Sciences
Ad hoc Reviewer for Journal of Memory and Learning
Ad hoc Reviewer for Memory and Cognition
Ad hoc Reviewer for Open Psychology

Service

Psy Doc Committee member 2017-Present
Psych Chi 2018-Present
Executive Committee 2018-Present
Ad hoc Tenure and Promotion Committee member 2017
Methods and Analysis Consultant 2015-2017
Graduate Studies Committee student representative 2010

Association Memberships

Psychonomic Society Member 2015-2017
American Psychological Association (APA)
 Division 1: General Psychology
 Division 20: Adult Development and Aging
Association for Psychological Science (APS)

Gerontological Society of America (GSA)
Midwestern Psychological Association
Southeastern Psychological Association

Computer Programming and Additional Skills

Eye-tracking (ASL model H6HS with eye-head integration)
E-Prime scripting
Visual Basic scripting
SAS analysis
Qualtrics