

David J. Frank, Ph.D.

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<http://www.tamuc.edu/academics/colleges/educationHumanServices/psychologySpecialEducation/Faculty%20Pages/DavidFrank.aspx>

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

Frank, D. J., & Macnamara, B. N. (in press). Retrieval shifts in spatial skill acquisition are collective rather than item-specific. *Memory and Cognition.*

- Macnamara, B. N., Hambrick, D. Z., **Frank, D. J.**, King, M. J., Burgoyne, A. P., & Meinz, E. J. (2018). 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

- Frank, D. J.** & Macnamara, B. N. (under review). How do task characteristics affect learning and performance? The roles of simultaneous, continuous, and interactive tasks
- 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., Pugh, Z., & Touron, D. R. (in analysis). Mental model updating on a novel chemistry task.

Frank, D. J., Demaree, H. A., & Macnamara, B. N. (in analysis). The role of individual differences in risk learning: Who learns to place optimal wagers?

Lu, S., **Frank, D. J.,** Ballotti, R. J., Sabti, S., Sacaguing, J., & Parra, L. (in analysis). Mobile Impairment Effect In Classroom Learning

Frank, D. J., & Macnamara, B. N. (in analysis). Algorithmic speed-up or retrieval shift: Addend effects in a spatial skill acquisition.

Frank, D. J., Macnamara, B. N., Burgoyne, A. P, & Hambrick, D. Z. (in data collection). Task features modify the relationship between practice, individual differences in cognition abilities, and task performance: Evidence from static and dynamic tasks

Academic Presentations

Frank, D. J., & Macnamara, B. N. (2018, November). *Item-Specific Improvements in Spatial Skill Acquisition: Algorithmic Speedup or Shift to Retrieval?* Poster presented at the Psychonomic Society Conference, New Orleans, LA.

Frank, D. J., Pugh, Z., Hughes, M. L., & Touron, D. R. (2018, November). *The Role of Exploratory Learning in Task Representation Updating.* Poster presented at the Psychonomic Society Conference, New Orleans, LA.

Macnamara, B. N., & **Frank, D. J.** (2018, November) *The Moderating Role of Task Characteristics on Skill Acquisition and Performance.* Paper presented at the Psychonomic Society Conference, New Orleans, LA.

Frank, D. J., & Macnamara, B. N. (2018, September). *What makes things hard? The role of task features in learning difficulty.* Paper presented at the 2018 ARMADILLO Conference, Houston, TX.

- 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. Presented by Touron, D. R.
- 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.

Invited Talks

- Hott, B. L., & **Frank, D. J.** (2018, November). *Sample size decisions and power*. Guest lecture presented to the Department of Literature and Language, Texas A&M University-Commerce, Commerce, TX.
- Frank, D. J.** (2018, May). *What video games can teach us about how people improve their performance*. Paper presented as part of the 2018 Texas A&M University-San Antonio speaker series, San Antonio, TX.

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

2017

The Conversation

2017

Awards

National Science Foundation

2017

How Individual Differences and Task Characteristics Interact to Predict Performance

Co-PI: David Frank; Co-PI: Brooke Macnamara

Not funded

Army Research Institute

2017

How Individual Differences and Task Characteristics Interact to Predict Performance

Co-PI: David Frank; Co-PI: Brooke Macnamara

Not funded

George and Beatrice Goldman Fisher Gerontology Dissertation Prize

2015

Awarded by: UNCG Graduate School

Award amount: \$1,000

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

2014

Awarded by: The Conference of Southern Graduate Schools

Award amount: \$1,000 plus travel costs

John W. Lindsey Memorial Award

2013

Awarded by: UNCG Psychology Department

Award amount: \$750

Hester Award

Awarded by: UNCG Graduate School

Award amount: \$1,000

UNCG Outstanding Master's Thesis Award

2013

Awarded by: UNCG Graduate School

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

Cognitive Psychology (Honors section)	Spring 2019
Cognitive Psychology (Graduate)	Spring 2019
Experimental Psychology	Fall 2018
Independent Study (Topic: Expertise)	Fall 2018
Independent Study (Topic: Social Cognition)	Summer 2018
Developmental Psychology (graduate)	Summer 2018
Learning Theories and Practice (online)	Fall 2018
Learning Theories and Practice (online)	Summer 2018
Learning Theories and Practice	Spring 2018
Learning Theories and Practice	Spring 2019
Introduction to Psychology	Fall 2018
Introduction to Psychology	Spring 2017
Introduction to Psychology	Fall 2017

University of North Carolina at Greensboro

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

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

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 Experimental Psychology: General
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

Psi Chi Coordinator	2018-Present
Ad hoc Annual Evaluation Document Revision Committee member	2019
Psy Doc Committee member	2017-Present
Executive Committee	2018
Ad hoc Tenure and Promotion Committee member	2017
Methods and Analysis Consultant	2015-2017
Graduate Studies Committee student representative	2010

Association Memberships

Psi Chi
Psychonomic Society Member
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