

Curriculum Vitae
Anthony J. Ryals

Department of Psychology, Behavioral Sciences Program
University of North Texas
Terrill Hall, Office 371
1611 W. Mulberry St. Denton, TX 76201
Email: Anthony.ryals@unt.edu

1. EDUCATION AND TRAINING

- Postdoctoral Fellow**, Northwestern University Feinberg School of Medicine 2012- 2016
-Advisor- Joel Voss Ph.D.
- Ph.D., Cognitive Psychology**, Colorado State University 2012
-Advisor- Anne M. Cleary Ph.D.
-Topic: Isolating partial recollection as a distinct entity in recognition memory using a modified RWI paradigm.
- M.S., Cognitive Psychology**, Colorado State University 2009
-Advisor- Anne M. Cleary Ph.D.
-Topic: Emotion in recognition with versus without cued-recall
- B.S., Psychology**, Western Oregon University 2006
-Summa cum laude

2. PROFESSIONAL POSITIONS

- Assistant Professor**, University of North Texas Department of Psychology Present

3. RESEARCH AFFILIATIONS

- Director UNT Neurocognitive Laboratory Present
-University of North Texas
- Northwestern University Laboratory for Human Neuroscience 2012-2016
-Primary Investigator- Joel Voss Ph.D., Northwestern University
- Cleary Memory Laboratory 2007-2012
-Primary Investigator- Anne Cleary Ph.D., Colorado State University
- Colorado State University Cognitive Neuroscience Laboratory 2008-2012
-Primary Investigator-Carol Seger Ph.D., Colorado State University
- WOU Neurocognitive Laboratory 2005-2006
-Primary Investigator- Joel Alexander Ph.D., Western Oregon University

4. Funding Activity

NSF Perception Action and Cognition (UNT GFP0000265)

Title: Fatigue Influence on Inhibitory Control

Role: **Co-PI** (Lead PI: Wright).

Grant Status: Submitted 2022, Unfunded 2023 (\$119,585)

American Psychological Foundation Walter Katkovsky Research Grant

Title: Reducing Anxiety Sensitivity, Related Behavioral Restraint of Emotion, and PTSD and Depressive Symptoms among Interpersonal Trauma Survivors Following a Perceptual Illusion Intervention

Role: **Co-PI** (Lead PI: Guillot)

Grant Status: Submitted 2022, Unfunded 2023 (\$19,400)

National Science Foundation

Graduate Research Fellowship Program

Role: **Faculty Mentor** (Trainee: Boyce)

Grant Status: Submitted 2022, currently pending

UNT Graduate Research Training Initiative for Student Enhancement (G-RISE)

Award for Kara Stuart (current graduate student)

Role: **Faculty Mentor** (Lead PI: Padilla)

Grant Status: Funded through the UNT College of Science NIH G-RISE T-32 for graduate support beginning Fall 2021 (approx. \$80,000)

U.S. Department of Defense (DOD) (BRO-20-SOMAI)

Award for Fundamental Research in Socio-Mathematics of Information and Influence

Role: **Co-Principal Investigator** (Lead PI: Grigolini)

Title: Protecting the Country from the Attacks of Bots Using Criticality Theories

Grant Status: Unfunded in 2020 (\$2,992,385)

Ford Foundation

Predocorial Graduate Fellowship

Role: **Advisor and Co-Investigator** (Fellow: Carbajal)

Title: Neurosciencia Bicultural: Testing the Effects of Culture in the N400 Congruency Effect

Grant Status: Unfunded (variable)

University of North Texas

Team Mentoring Grant Program

Role: **Co-Investigator and Mentee** (Co-Investigators: Kaminski, Riggs, Trulson)

Title: Complex PTSD Research Team

Grant Status: Funded for \$5000.00 in 2019

University of North Texas

College of Education Collaborative Research Project

Role: **Co-Investigator** (PI: Olson)

Title: Effects of Exercise and Caloric Restriction on Adiposity, Neurocognitive Function, and Brain-Derived Neurotrophic Factor (BDNF) in Obesity
Grant Status: Funded for \$10,000.00 in 2019

National Science Foundation
Graduate Research Fellowship Program
Role: **Principal Investigator** (Trainee: Doshier)
Title: Individual Difference Factors Predicting Inhibitory Control of Emotional Memory
Grant Status: Unfunded

The Gonzalez Foundation
Gift to the UNT Neurocognitive Laboratory
Role: **Co-Investigator** (Co-PI: Ross)
Title: Development and Validation of the Autonomic Spectrum Questionnaire (ASQ)
Gift Status: \$1000.00 donated to UNT in 2018

National Institute of Health
R15 Research Grant (PA-16-200).
Role: **Co-Investigator** (PI: Boals)
Title: A prospective examination of fear conditioning and event generalization in the development of posttraumatic stress disorder.
Grant Status: Unfunded

National Institute of Health
R15 Research Grant (PA-16-200).
Role: **Co-Investigator** (PI: Contractor)
Title: Development, Standardization, and Preliminary Testing of a Novel PTSD Intervention: Processing of Positive Memories Intervention (PPMI).
Grant Status: Unfunded

Northwestern University Cognitive Neurology and Alzheimer's Disease Center (CNADC)
Pilot Research Grant (PHS AG13854 2016)
Role: **Principal Investigator**
Title: Noninvasive brain stimulation to modulate memory awareness in older adults
Grant Status: Funded

Northwestern University Cognitive Neurology and Alzheimer's Disease Center (CNADC)
Pilot Research Grant (PHS AG13854)
Role: **Co-Principal Investigator**,
Title: Deficit Awareness Tests to Identify Subtle Neurodegenerative Cognitive Impairment.
Grant Status: Funded

Northwestern University Cognitive Neurology and Alzheimer's Disease Center (CNADC)
Pilot Research Grant (PHS AG13854 2014)
Role: **Principal Investigator**

Title: Noninvasive stimulation to modulate memory accuracy and awareness in older adults
Grant Status Unfunded

Ruth L. Kirchstein National Research Service Award
NRSA F32 Postdoctoral Fellowship

Role: **Principal Investigator**

Title: Deficit-Awareness Tests to Identify Subtle Neurodegenerative Cognitive Impairments
Grant Status: Unfunded

5. Publications

(IF=outlet impact factor ** Denotes Principal/Lead Author if not first * Denotes UNT Student Author)

Cleary, A. M., **Ryals, A. J.**, & Nomi, J. S. (2022). Correction to: Cleary, AM, Ryals, AJ, & Nomi, JS (2013). Intuitively detecting what is hidden within a visual mask: Familiar-novel discrimination and threat detection for unidentified stimuli. *Memory & Cognition*, 41, 989-999. *Memory & Cognition*, 50(5), 1124-1130.

Ryals, A. J., *Kelly, M. E., & Cleary, A. M. (2021). Increased pupil dilation during tip-of-the-tongue states. *Consciousness and Cognition*, 92, 103152. (2020 IF: 2.44)

*Litvin J., Ross C.M., **Ryals A.J.** Kaminski, P.L. (2021). The Autonomic Spectrum Questionnaire: A Factor Analysis. *Current Psychology*, 1-8 (2020 IF: 4.29)

*Dolan, M., Contractor, A. A., **Ryals, A. J.**, & Weiss, N. H. (2020). Trauma, posttraumatic stress disorder severity, and positive memories. *Memory*. (2019 IF: 1.95)

*Doshier, K.K. & ****Ryals, A.J.** (2020). Partial Retrieval is a Distinct yet Infrequent Phenomenon in Human Memory. In Cleary, A. M., & Schwartz, B. L. (Eds.). (2020). *Memory Quirks: The Study of Odd Phenomena in Memory*. Routledge.

*Carbajal I., O'Neil J.T, Palumbo R.T., Voss J.L., ****Ryals A.J.** (2019). Hemisphere-specific effects of prefrontal theta-burst stimulation on visual recognition memory accuracy and awareness. *Brain and Behavior*, 9e01228 (2017 IF: 2.22)

Ryals A.J., O'Neil J.T., Palumbo R.T, & Voss J.L. (2018). Memory Awareness Disruptions in Amnesic Mild Cognitive Impairment: Comparison of Multiple Awareness Types for Verbal and Visuospatial Material. *Aging, Neuropsychology, and Cognition*, 6, 1-22 (2017 IF: 1.85)

Apple A.C., Schroeder M.P., **Ryals A.J.**, Wagner L.I., Cella D., Shih P., Reilly J., Penedo F.J., Voss J.L., Wang L. (2018). Increased hippocampal functional connectivity during a memory task is related to self-reported cognitive concerns in breast cancer patients undergoing adjuvant therapy. *Neuroimage: Clinical*, 12, 110-118. (5-year IF: 4.81)

Apple, A., **Ryals, A.J.**, Alpert, K.I., Wagner, L.I., Cella D., Penedo F.J., Voss, J.L., Wang, L. (2017). Subtle Hippocampal Deformities in Cognitively Normal Breast Cancer Patients

- with Self-Reported Cognitive Concerns. *Neuroimage: Clinical*, 14, 685-691. (5-year IF: 4.81)
- Wang, L., Apple, A., Schroeder, M., **Ryals, A.J.**, Voss, J.L., Gitelman, D.R., Sweet, J.J., Butt, Z., & Wagner, L.I. (2016) Reduced activation of the working memory network in cognitively impaired chemotherapy patients. *Cancer*, 122(2): 258-68. (2017 IF: 6.53)
- Cleary, A.M., **Ryals, A.J.**, & Wagner, S.R. (2016). Recognition during recall failure: Semantic feature matching as a mechanism for recognition of semantic cues when recall fails. *Memory and Cognition*, 44(1): 50-62.(2014 IF: 2.46)
- Ryals, A.J.**, Wang, J.X., Brandstatt, K. L., & Voss, J.L. (2015). Hippocampal contribution to implicit configuration memory expressed via eye movements during scene exploration. *Hippocampus*. 25(9): 1028-1041. (2015 IF 3.95)
- Ryals, A.J.**, Rogers, L.M., Gross, E.Z., Brandstatt, K.L., & Voss, J.L. (2015). Associative recognition memory awareness improved by theta-burst stimulation of frontopolar cortex. *Cerebral Cortex*. (advanced online publication) doi: 10.1093/cercor/bhu311. (5-year IF: 6.80)
- Wang, J.X., Rogers, L.M., Gross, E.Z., **Ryals, A.J.**, Dokucu, M.E., Brandstatt, K.L., Hermiller, M.S., & Voss, J.L. (2014). Targeted enhancement of cortical-hippocampal brain networks and associative memory. *Science*, 345(6200): 1054-1057. (5-year IF: 32.56).
- Ryals, A.J.** & Voss, J.L. (2015). *The outer limits of implicit memory*. In the Wiley-Blackwell Handbook on the Cognitive Neuroscience of Memory A. Duarte, M. Barense, and D.R. Addis, (Eds.). John Wiley & Sons.
- Ryals, A.J.** & Voss, J.L. (2013). Connections between mechanisms for anosognosia and implicit memory. *Cognitive Neuroscience*. (3-4): 202-203. (2013 IF: 4.68)
- Cleary, A.M., **Ryals, A.J.**, & Nomi, J.S. (2013). Intuitively detecting what is hidden within a visual mask: Familiar-novel discrimination and threat detection for unidentified stimuli. *Memory and Cognition*, 41(7): 989-99. (2014 IF: 2.45)
- Ryals, A.J.**, Cleary, A.M., & Seger, C.A. (2013). Recall versus familiarity when recall fails for words and scenes: The differential roles of the hippocampus, perirhinal cortex, and category-specific cortical regions. *Brain Research*, 1492: 72-91. (2013 IF: 3.35)
- Ryals, A.J.** & Cleary, A.M. (2012). The recognition without cued recall phenomenon: Support for a feature-matching theory over a partial recollection account. *Journal of Memory and Language*, 66: 747-762. (2012 IF: 4.80)
- Cleary, A.M., Brown, A.S., Sawyer, B.D., Nomi, J.S., Ajoku, A.C., & **Ryals, A.J.** (2012). Familiarity from the Configuration of Objects in 3-dimensional Space and its Relation to

Déjà vu: A Virtual Reality Investigation. *Consciousness and Cognition*, 21(2): 969-975. (2012 IF: 2.70)

Ryals, A. J., Yadon, C. A., Cleary, A.M., & Nomi, J.S. (2011). When Word Identification Fails: ERP Correlates of Recognition without Identification and of Word Identification Failure. *Neuropsychologia*, 49(12): 3224-3237. (2011 IF: 5.14)

Cleary, A. M., Nomi, J. S., & **Ryals, A. J.** (2011) "*Cognitive Psychology*" In Nina P. Azari, Ed. Encyclopedia of Sciences and Religions. Heidelberg: Springer-Verlag.

Cleary, A.M., **Ryals, A.J.**, & Nomi, J.S. (2009). Can Déjà vu result for Similarity to a Previous Experience? Support for the Similarity Hypothesis of Déjà vu. *Psychonomic Bulletin & Review*, 16(6): 1082-1088. (2010 IF: 2.31)

Manuscripts Under Invited Revision/Review

Carbajal, I., **Ryals, A.J.**, Wang, C., Slavish, D., Hasapes, N. (under invited review). Visual Recognition Memory Modulated by Language and Cultural Frame Priming in Latinx Bilinguals and Biculturals

Litvin J.M., Kaminski P.L., & **Ryals, A.J.** (under revision) Development and Validation of the Complex Trauma Screener: A Brief Measure of the ICD-11's Post-Traumatic Stress Disorder (PTSD) and Complex PTSD (CPTSD).

*Kelly, M.E & **Ryals, A.J.** (under revision) A Data-Driven Approach to Observing and Differentiating Extreme Television and Video Viewing Behavior. *Media Psychology*.

*Kelly, M.E., Lucke, H.R., **Ryals A.J.** (under revision) Netflix and Pill: The Relationship between Television/Video Watching Behaviors and Substance Use in College Students. *Psychology of Popular Media*.

Wetherby A.E, *Carbajal I., Tauber, S.K., **Ryals A.J.** (under revision). Exploring the Mechanisms Underlying Judgment of Learning Reactivity on Actual Learning Using Eye-Tracking.

Manuscripts in Preparation

(** Denotes Principal/Lead Author * Denotes UNT Student Author)

*Litvin J., Kaminski P.L., & ****Ryals A.J.** Evidence for Individual Differences in Emotionally-Driven Pupillary Reactivity in Complex PTSD.

Ross, C.M. Litvin, J.M., & **Ryals, A.J.** Development and Validation of the Auditory Experiences Questionnaire (AEQ).

*Boyce, L., Ryals, A.J., Bresett, M. Longitudinal Effects of Hericium Erinaceus (Lion's Mane) Supplements on Cognition, Mood, and Quality of Life

*Shamji, J., Jenkins, S.R., & **Ryals, A.J.** Weighing the Evidence Concerning Specific Executive Functions in Theory-of-Mind Tasks: An Integrative? Review of Contemporary Literature.

*Card, S.R. & **Ryals, A.J.** Investigating Differences in Dancers' Cognition Using a Proprioceptive Trail-Making Test

6. Research Presentations

(* Denotes UNT Student Author)

* Stuart, K. R., *Aleman, A., *Materia, M., *Meeks, J., *McGregor, D., *Vazquez, L., *Camacho, S., *Hunter, S., ***Ryals, A. J.** (2023) A Study of Cognitive Flexibility in Subclinical Autism Using Eye-Tracking, Interpersonal Decentering Narratives, and Wisconsin Card Sorting Task Performance. Poster to be presented at the annual meeting of the Southwestern Psychological Society, Frisco, TX.

*Boyce, L., **Ryals, A. J.**, Guillot, C., Bresett, M. (2023). Longitudinal Effects of Hericium Erinaceus (Lion's Mane) Supplements on Cognition, Mood, and Quality of Life (revision). Poster to be presented at the annual meeting of the Southwestern Psychological Society, Frisco, TX.

*Stuart, K. R., **Ryals, A. J.** (2023) The Breadth of Mindful Breath: Modulating Working Memory Performance and Oscillatory EEG Activity through Repeated Mindfulness (revised proposal). Poster to be presented at the annual meeting of the Southwestern Psychological Society, Frisco, TX.

*Vasquez, L., Ryals, A. J., *Camacho, S., *Stuart, K. R. (2023) Correlating Visuo-Scanning Strategies and Extended Number Line Estimation Task Performance with Mathematical Performance with Eye-Tracking.

*Boyce, L., **Ryals, A. J.**, Guillot, C., Bresett, M. (2022). Longitudinal Effects of Hericium Erinaceus (Lion's Mane) Supplements on Cognition, Mood, and Quality of Life. Talk to be presented at the National Collegiate Honors Council (NCHC) 2022 Annual Conference, Dallas, TX. Poster to be presented at the annual meeting of the Southwestern Psychological Society, Frisco, TX.

* Kelly, M. E., *Pirotna, B. J., *Boyce, L., *Stuart, K., *Workman, K., **Ryals, A. J.** (2022) Priming with an Image of COVID-19 is Associated with Time-Based Memory Distortions for the Previous Year. Poster presented at the annual meeting of the American Psychological Society, Chicago IL.

*Card, M. & **Ryals, A. J.** (2022) Dancing Cognition: Investigating Differences in Dancers' Cognition Using a Proprioceptive Trail-Making Test. (revision) Poster presented at American Psychological Society, Chicago IL.

*Stuart, K. R., **Ryals, A. J.**, (2022) The Breadth of Mindful Breath: Modulating Working Memory Performance and Oscillatory EEG Activity through Repeated Mindfulness (proposal). Poster presented at American Psychological Society, Chicago IL.

- *Kelly, M.E., *Piroтина, B., *Lucke, H.R., & **Ryals, A.J.** (2021) Netflix and Pill. Poster presented at the annual meeting of the American Psychological Society.
- *Card, M. & **Ryals, A.J.** (2021) Dancing Cognition: Investigating Differences in Dancers' Cognition Using a Proprioceptive Trail-Making Test. Poster to be presented at the annual meeting of the Southwestern Psychological Association.
- *Card, M. & **Ryals, A.J.** (2021) Dancing Cognition: Investigating Differences in Dancers' Cognition Using a Proprioceptive Trail-Making Test. Poster presented at the virtual meeting of the Harvard National Collegiate Research Conference.
- *Doshier K.K., *Stuart, K.L., *Primous, S.B., & **Ryals, A.J.** (2020). Pupil Dilation Reflects Objective Explicit Memory while Reaction Time Reflects Implicit Memory in Visual Old/New Recognition. Poster presented at the virtual meeting of the Psychonomic Society.
- *Hunter S., *Bacci J., *Kraft W., Jenkins S.R., & **Ryals, A.J.** (2020). Cognitive Flexibility and Eye Gaze Patterns during Interpersonal Decentering Narratives in Relation to Autism Spectrum Disorder. Poster presented at the virtual showcase for the 32nd Association for Psychological Science, Chicago IL.
- *Kelly, M.E., *Piroтина, B., & **Ryals, A.J.** (2020) What is Binge-Watching? A Data-Driven Approach to Defining a Binge. Poster presented at the virtual showcase for the 32nd Association for Psychological Science, Chicago IL.
- *Litvin L., Kaminski P.L., *Archuleta W.P., **Ryals A.J.** (2019). Refinement of the Complex Trauma Inventory: An Analysis of Assessment and Diagnostic Accuracy. Poster presented at the annual meeting of the International Society for Traumatic Stress Studies, Boston, MA.
- Ryals A.J.** & *Doshier K.K. (2019). Partial Retrieval is a Distinct yet Infrequent Phenomenon in Human Memory. Research talk given at the Perceptions, Illusions, Deceptions and Confusions Conference, Fort Collins, CO.
- *Cortez, J.I., *De La Garza J.M., *Carbajal I, **Ryals, A.J.** (2019) The Role of Executive Inhibition and Shooter Ethnicity in the Police Officer's Dilemma. Poster presented at the annual meeting of the Southwestern Psychological Association, Albuquerque, NM.
- Ryals, A.J.**, *Reynolds, BL, *Patton, CL, Cleary, AM (2018). Pupil Dilation Suggests a Role of Autonomic Arousal in Tip-of-the-Tongue State Phenomenology. Poster presented at the annual meeting of the Psychonomic Society, New Orleans, LA.
- *Carbajal I., **Ryals A.J.**, Witherby A.E., Tauber S.K. (2018). Exploring the Mechanisms Underlying Judgments of Learning Reactivity on Actual Learning using Eye-Tracking Measures. Poster presented at the annual meeting of the Psychonomic Society, New Orleans, LA.

- *Nielsen, N., *Litvin J., Kaminski T., **Ryals, A.** (2018). Attachment Anxiety Moderates Complex PTSD Symptom Severity and Functional Impairment. Poster to be presented at the annual meeting of the Texas Psychological Association, Frisco TX.
- *Mckee C.L., *Tirado P., *Litvin J.M., *Carbajal I., **Ryals A.J.** (2018). Evidence for Individual Differences in Emotionally-Driven Pupillary Reactivity. Talk given at the annual meeting of the Southern Society for Philosophy and Psychology, San Antonio TX.
- *Mckee C.L., *Tirado P., *Litvin J.M., *Carbajal I., **Ryals A.J.** (2018). Evidence for Individual Differences in Pupillary Dilation to Aversive Stimuli in the General Population. Poster presented at the annual meeting of the Society for Cognitive Neuroscience, Boston MA.
- Apple A.C., Schroeder M.P., **Ryals A.J.**, Wagner L.I., Cella D., Reilly J.L., Penedo F.J., Voss J.L., Wang L. (2017). Compensatory increased hippocampal functional connectivity related to self-reported cognitive concerns in breast cancer survivors. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Vancouver, B.C.
- Ryals A.J.**, O'Neil J.T., Voss J.L.. (2016). Visual Memory and Metamemory Improved Following Prefrontal Theta-Burst Stimulation. Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.
- Ryals A.J.**, O'Neil J.T., Voss J.L. (2016). A theta-burst transcranial magnetic stimulation investigation of the feeling-of-knowing. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Apple, A.C., **Ryals, A.J.**, Wagner, L.I., Cella, D., Penedo, F.J., Voss, J.L., & Wang, L. (2015) Hippocampal Subfield Deformity in Breast Cancer Patients with Self-Reported Cognitive Concerns. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Ryals A.J.**, O'Neil J.T., Voss J.L. (2015). Memory awareness modulation due to theta-burst stimulation of distinct prefrontal cortical networks. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Ryals, A.J.**, Apple, A.C., Wang, J.X., Wagner, L.I., Cella, D., Penedo, F.J., Wang, L., & Voss, J.L. (2015). Hippocampal memory impairment in breast cancer survivors after chemotherapy measured using covert testing. Poster to be presented at the annual meeting of the American Society of Clinical Oncology (ASCO), Chicago, IL.
- Ryals, A.J.**, O'Neil, J.T., Mesulam, M-M., Weintraub, S., & Voss, J.L. (2015). Memory-awareness impairment in amnesic mild cognitive impairment (aMCI). Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Apple, A.C., **Ryals, A.J.**, Voss, J.L., & Wang, L. (2015) Hippocampal shape deformity associated with cognitive variability in breast cancer patients. Poster to be presented at the annual meeting of the International Neuropsychological Society, Denver, CO.

- Ryals, A.J., O'Neil, J., & Voss, J.L. (2014).** Deficits of awareness in amnesic mild cognitive impairment. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.
- Ryals, A.J., Gross, E.Z., Brandstatt, K.L., Dokucu, M.E., Rogers, L.M., & Voss, J.L. (2014).** Theta-burst TMS to distinct prefrontal locations modulates awareness of memory. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Cunningham, A.B., **Ryals, A.J., Brandstatt, K.L., & Voss, J.L. (2014).** Configural memory disruptions associated with chemotherapy and hormone depletion using concurrent eyetracking and fMRI. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Ryals, A.J. & Voss, J.L. (2013).** Hippocampal activity tracks eye-movement replay without conscious awareness. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Wang, L., Schroeder, M., **Ryals, A.J., Voss, J.L., Butt, Z., & Wagner, L. (2013).** Reduced activation of the working memory network in cognitively impaired chemotherapy patients. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Seattle, WA.
- Ryals, A.J. & Voss, J.L. (2013).** The role of conscious awareness in MTL and cortical processing of scene configural similarity. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Ryals, A.J., & Cleary, A.M. (2012).** Isolating partial recollection as a distinct entity in recognition memory. Poster presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- Staley, S., **Ryals, A.J., (2012)** ERP correlates of recognition without identification across real-world visual stimuli. Poster presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.
- Ryals, A.J., Staley, S., Hawkins, T., & Cleary, A.M. (2012)** Face recognition without identification: An ERP investigation. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Ryals, A. J. & Cleary, A. M. (2011)** The Recognition without Cued Recall Phenomenon: Support for A Feature-Matching Theory. Poster presented at the annual meeting of the Psychonomic Society, Seattle, WA.
- Ryals, A. J., Cleary, A. M., & Seger, C. A. (2011).** Recollection and Familiarity for Words and Scenes: Shared and Independent Neural Components. Poster presented at the annual meeting of the Cognitive Neuroscience Society (CNS), San Francisco, CA.

- Ryals, A. J.,** Cleary, A. M., & Reimers, B. H. (2011). Evidence for Suppression of Emotional Words Using Independent Nonword Cues. Poster presented at the annual meeting of the society for Determinates of Executive Function and Dysfunction (DEFD), Boulder, CO.
- Ryals, A. J.,** Sawyer, B. D., Nomi, J. S., Cleary, A. M., & Brown, A. S. (November 2010). A Virtual Reality Investigation of Familiarity and Déjà vu. Poster presented at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Ryals, A. J. &** Cleary, A. M. (May 2010). The Role of Emotion in Recognition with versus without Cued-Recall. Poster presented at the annual meeting of the American Psychological Association (APS), Boston, MA.
- Ryals, A. J.,** Pichardo, F. M., Paniagua-Lopez, D., Cleary, A. M., & Seger, C. A. (2010). Functional Magnetic Resonance (fMRI) Correlates of Recognition without Cued Recall. Poster presented at the annual meeting of the Cognitive Neuroscience Society (CNS), Montreal, Canada.
- Mestas, S. L., **Ryals, A. J.,** & Cleary, A. M. (2010). Eyewitness memory in a Virtual Reality Environment: A Demonstration of the Own-Race bias. Poster presented at the annual meeting of the Rocky Mountain Psychological Society, Denver, CO.
- Phillips, C. S., Leonard, S. J., & **Ryals, A. J.** (2010). Does your Brain Know the Answer Before You Do? Poster presented at the annual “Celebrating Undergraduate Research Creativity (CURC)” conference at Colorado State University, Fort Collins, CO.
- Ryals, A. J.,** Sensenig, A. E., Henry, K. L., & Rhodes, M. G. (2009). Overconfidence versus Underconfidence in the Classroom: Exploring Differences in Metacognitive Calibration. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Cleary, A. M., **Ryals, A. J.,** Yadon, C. A., Nomi, J. S., Williams, F. A., Krawzoff, M. K., & Boreson, C. B. (2009). Electrophysiological Correlates of Recognition without Identification. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Ryals, A. J.,** Nomi, J. S., & Cleary, A. M. (2008). Recognition without Identification and the Déjà vu Phenomenon. Poster presented at the 49th annual meeting of the Psychonomic Society Chicago, IL.
- Kostic, B., Miller, S., Severin, S., **Ryals, A. J.,** & Cleary, A. M. (2008) Recognition Memory for Analogies. Poster presented at the Midwestern Psychological Association Annual Meeting, Chicago, IL.
- Alexander, J. L., **Ryals, A. J.,** Osborne, D., & Donahue, A. (2006). Increased P300 Event Related Potential Amplitude during a Self-Evaluation Task: A Replication. Poster presented at Towards a Science of Consciousness, Tucson, AZ.

Invited Research Talks and Colloquia

Mental Health in the Service Industry -Set Supper Club/ Austin Mutual Aid Fund	Spring 2021
Transcranial Magnetic Stimulation: An Overview -UNT Behavioral Science Psychology Research Symposium (PRS)	Fall 2020
Memory and Brain Health as You Age: Understanding Changes and Dispelling Myths -Osher Lifelong Learning Institute at the University of North Texas	Fall 2019
Partial Retrieval is a Distinct yet Infrequent Phenomenon in Human Memory. -Colorado State University, Perceptions, Illusions, Deceptions and Confusions	Summer 2019
Neural Reflections on the Structure of the Past and the Fringe of Awareness -Southern Methodist University, Festschrift for Dr. Alan Brown.	Spring 2018
Connections and Confections: Advances in Neurosciences and Neuroimaging -Wrigley/Mars Global Innovation Center and Northwestern University	Winter 2015
Awareness in Recognition Memory -Northwestern University Integrated Neuroscience (NUIN) Recruitment Day	Winter 2015
The Spectrum of Awareness in Recognition Memory: From Brain to Behavior -Loyola University, Chicago	Fall 2014
Hippocampal Activity During Configural Scene Processing Without Awareness -Cognitive Brain Mapping Group Data Blitz, -Northwestern University	Spring 2013

7. TEACHING

Graduate Courses

Biological Bases of Behavior (PSYC 6030) -(17/25 respondents) -Overall Summative Rating 4.9 out of 5	Fall 2022
Biological Bases of Behavior (PSYC 6030) -(14/19 respondents) -Overall Summative Rating 4.8 out of 5	Fall 2021
Biological Bases of Behavior (PSYC 6030) -(11/14 respondents) -Overall Summative Rating 4.7 out of 5	Fall 2020

Biological Bases of Behavior (PSYC 6030) Fall 2019
-(11/20 respondents)
-Overall Summative Rating: **4.8 out of 5**

Biological Bases of Behavior (PSYC 6030) Fall 2018
-(19/20 respondents)
-Overall Summative Rating: **4.9 out of 5**

Undergraduate Courses

Sensation and Perception (PSYC 4820) Fall 2022
-(108/148 respondents)
-Overall Summative Rating **4.9 out of 5**

Biological Psychology (PSYC 1650) Spring 2022
-(142/202 respondents)
-Overall Summative Rating **4.7 out of 5**

Cognitive Psychology (PSYC 4830) Spring 2022
-(107/135 respondents)
-Overall Summative Rating **4.7 out of 5**

Sensation and Perception (PSYC 4820) Fall 2021
-(21/53 respondents)
-Overall Summative Rating **4.7 out of 5**

Introduction to Perception and Cognition (PSYC 4800) Spring 2021
-(41/59 respondents)
-Overall Summative Rating **4.9 out of 5**

Topics in Psychology (PSYC 4849) Spring 2021
-(12/22 respondents)
-Overall Summative Rating **4.9 out of 5**

Perception and Cognition (PSYC 4800) Spring 2020
-(41/59 respondents)
-Overall Summative Rating **4.8 out of 5**

Cognition and Perception (PSYC 4800) Fall 2019
-(112/144 respondents)
-Overall Summative Rating **4.9 out of 5**

Perception and Cognition (PSYC 4800) Spring 2019
-(77/98 respondents)
-Overall Summative Rating **4.8 out of 5**

History and Systems of Psychology (PSYC 4600) -(79/96 respondents) -Overall Summative Rating 4.8 out of 5	Spring 2019
Perception and Cognition (PSYC 4800) - (124/144 respondents) -Overall Summative Rating: 4.7 out of 5	Fall 2018
History and Systems of Psychology (PSYC 4600) - (56/94 respondents) -Overall Summative Rating: 4.7 out of 5	Spring 2018
Perception and Cognition (PSYC 4800) - (64/74 respondents) - Overall Summative Rating: 4.8 out of 5	Spring 2018
History and Systems of Psychology (PSYC 4600) - (71/99 respondents) -Overall Summative Rating: 4.7 out of 5	Fall 2017
Perception and Cognition (PSYC 4800) - (72/97 respondents) - Overall Summative Rating: 4.8 out of 5	Fall 2017
History and Systems of Psychology (PSYC 4600) - (47/66 respondents) -Instructor Rating: 4.9 out of 5	Spring 2017
Perception and Cognition (PSYC 4800) - (32/40 respondents) - Overall Summative Rating 4.8 out of 5	Spring 2017
History and Systems of Psychology (PSYC 4600) - (49/73 respondents) - Overall Summative Rating: 4.8 out of 5	Fall 2016
Physiological Psychology Laboratory -(Colorado State University) -Course rating (across categories): 4.8 out of 5 (23/23 respondents) -Instructor Rating: 4.9 out of 5	Spring 2012
Cognitive Psychology -(Colorado State University) -Course rating (across categories): 4.8 out of 5 (40/55 respondents) -Instructor Rating: 4.8 out of 5	Fall 2011
Biopsychology Laboratory	Summer, 2011

- (Colorado State University)
- Course rating (across categories): 4.7 out of 5 (12/12 respondents)
- Instructor Rating: **5 out of 5**

Applied Cognitive Psychology Laboratory

Spring, 2010

- (Colorado State University)
- Course rating (across categories): 4.8 out of 5 (12/12 respondents)
- Instructor Rating: **4.9 out of 5**

Invited Graduate Course Lectures

Neurological Bases of Behavior	Fall 2017
-Topic: Noninvasive Brain Stimulation	
Advanced Social Psychology	Spring 2017
-Topic: The Social Neuroscience of the Self	
Biological Bases of Behavior	Fall 2016
-Topic: Cognitive Neuroscience of Memory and Amnesia	
Principles of Neuroimaging	Summer 2015
-Topic: EEG, ERP, TMS	
Fundamentals of Neuroscience	Spring 2015
-Topic: The Cognitive Neuroscience of Human Memory: Part 1	
Principles of Neuroimaging	Summer 2013
-Topic: EEG, TMS, MEG	

Invited Undergraduate Course Lectures

Sensation and Perception	Fall 2020
-Topic: Olfaction and Gustation	
Research Methods in Psychology	Winter 2016
-Topic: Understanding Amnesia	
Introductory Psychology	Fall 2011
-Topic: Biopsychology of Methamphetamine Addiction	
History and Systems of Psychology	Spring 2011
-Topic: Influences in the History of Cognitive Psychology	
Introductory Psychology	Spring 2011
-Topic: Applied Cognition	
Cognitive Psychology	Spring 2011
-Topic: An Overview of the History of Psychology	
Cognitive Neuroscience	Fall 2010
-Topics: Addiction, Higher Level Visual Cognition	
Introductory Psychology	Fall 2009 - Spring 2010
-Topic: Cognitive Neuroscience/ Neuropsychology	
Mind, Brain, and Behavior	Spring 2009 - Spring 2010
-Topic: Amnesia	
Mind, Brain, and Behavior	Fall 2009
-Topic: Gustation and Olfaction	

Physiological Psychology	Fall 2009
-Topic: Biopsychology of Addiction	
Research Methods in Psychology	Fall 2008
-Topic: Cognitive Neuroscience Techniques	
Introductory Psychology	Fall 2007- Spring 2008
-Topic: Biopsychology of Methamphetamine Addiction	

8. PROFESSIONAL SERVICE

Grant Reviewing

The Austrian Science Fund
The Netherlands Organization for Scientific Research
The National Science Foundation
Canada Foundation for Innovation John R. Evans Fund

Editorial Positions

Review Editor: Frontiers in Human Neuroscience
Review Editor: Frontiers in Psychiatry

Ad hoc Peer Reviewing

Alzheimer's Research and Therapy
Brain Research
Brain and Cognition
Brain Structure and Function
Cognition
Cognitive, Affective, and Behavioral Neuroscience
Consciousness and Cognition
Frontiers in Psychology
Frontiers in Psychiatry: Psychopathology
Frontiers in Psychiatry: Addictive Disorders
Frontiers in Human Neuroscience
International Journal of Psychophysiology
Journal of Cognitive Neuroscience
Journal of Experimental Psychology: Human Perception and Performance
Journal of Memory and Language
Journal of Neuroscience
Journal of Cognitive Neuroscience
Memory and Cognition
Neurobiology of Aging
Neurobiology of Learning and Memory
Neuropsychologia
Neurophysiology
New Ideas in Psychology
PLOS One
Psychophysiology
Psychological Science

Quarterly Journal of Experimental Psychology

Professional Organizations

Association for Psychological Science
Cognitive Neuroscience Society
Psychonomic Society
Society for Neuroscience
Society for the Teaching of Psychology
Southern Society for Philosophy and Psychology
Southwestern Psychological Association

Awards/Recognition

UNT Five Years of Service	2022
UNT Thank a Teacher- University of North Texas	2018
David P. McCabe Excellence in Research Award- Colorado State University	2012

Honors

Psi Chi (National Honor Society of Psychology)	2005-present
Phi Kappa Phi (National Academic Honor Society)	2005-present

Institutional Service and Community Outreach

UNT Psychology Space Committee (Chair)	present
UNT Counseling Search Committee Member	2021-2022
UNT Psi Chi Advisor (Co-Advisor Blumenthal)	present
UNT Lecturer Search Committee	2019-20
UNT Behavioral Science Faculty Search Committee	2019
UNT Psychology Scholarship Committee	2017-2019 (Chair 2019)
UNT Department of Psychology Research Fair Chair	2019-2020
UNT Behavioral Science Faculty Committee	2016-present
UNT Department of Psychology Mentoring Committee	2016- present
UNT Department of Psychology Research Fair Judge	Fall 2016, Fall 2017
Northwestern University NUIN Postdoctoral Affairs Committee -Co-chair	2015-2016
Northwestern University Brain Awareness Outreach Teachers Workshop -Learning and Memory Section Educator	Winter 2015
Illinois State Science Fair -Behavioral Science Poster Judge	Spring 2014
Nichols Middle School -Visiting speaker to six 8 th -grade science classes	Fall 2013
Northwestern University Postdoctoral Forum Symposium -Symposium Poster Judge	Summer 2013
Illinois Junior Science Academy -Science Fair Poster Judge	Spring 2013
CSU Graduate School Appeal Review Committee	Fall 2011

-Graduate Student Representative	
Graduate Student Council (GSC)	Spring 2011
-Secretary/ Psychology Representative	
Graduate Student Council (GSC)	Fall 2009- 2011
-Psychology Representative	
CSU Committee on Teaching and Learning (CoTL)	Fall 2010- 2011
-Psychology Representative	
Honors in Undergraduate Research Scholars (HURS) Mentor	Spring 2010
-Mentees: Cassandra Phillips, Samuel Leonard	
Undergraduate Research Program (REU) Mentor	Summer 2008, 2009
-Mentees: Faith Williams, Felix Pichardo, Samantha Wagner	
Psychology Graduate Curriculum Committee	Fall 2008- Spring 2009

Graduate Student Mentoring

Kara Stuart (Ph.D. Student), UNT	present
Kirby Doshier (Ph.D. Student), UNT	present
Megan Kelly (Ph.D. Student), UNT	2019-2022
Ivan Carbajal (Ph.D. Student), UNT	2018-2021
Melissa Materia (Research Assistant)	present
Christopher Alkire (Research Assistant)	present
Justin Litvin, UNT (Research Assistant)	2016-2018
Paula de los Angeles, Northwestern University	2015
Alyssa Cunningham, Northwestern University	2014-2015
Long Chen, NUIN rotation student, Northwestern University	2013
Wanting Zhong, NUIN rotation student, Northwestern University	2012

Graduate Student Thesis/Dissertation Committee Membership

Kirby Doshier, Department of Psychology, UNT	present
Kara Stuart, Department of Psychology, UNT	present
Jake Hanes, Department of Psychology, UNT	present
Justin Asbee, Department of Psychology, UNT	2022
James Rushton, Department of Psychology, UNT	2022
Megan Kelly, Department of Psychology, UNT	2022
Kyjeila Lattimore, Department of Psychology, UNT	2022
Will Archuleta, Department of Psychology, UNT	2022
Bridgette Carrol, Department of Psychology, UNT	2021
Ivan Carbajal, Department of Psychology, UNT	2021
Sandeep Roy, Department of Psychology, UNT	2019
Nicholas Magera, Department of Kinesiology, UNT	2019
Cade Leinbach, Department of Music, UNT	2019
Christopher Mlynski, Department of Psychology, UNT	2019
Hannah Walsh, Department of Psychology, UNT	2019
Amber Witherby, Department of Psychology, TCU	2019
Justin Litvin, Department of Psychology, UNT	2019

Megan Dolan, Department of Psychology, UNT	2019
Lee Bedford, Department of Psychology, UNT	2019
David Cleveland, Department of Kinesiology, UNT	2018

Graduate Student Comprehensive Exam Committee Membership

Kirby Doshier, department of Psychology, UNT
Megan Kelly, Department of Psychology, UNT
Ivan Carbajal, Department of Psychology, UNT
Justin Asbee, Department of Psychology, UNT
Christopher Mlynski, Department of Psychology, UNT
Lee Bedford, Department of Psychology, UNT

McNair Scholar Mentoring

Luke Boyce	present
Madison Card, UNT McNair Scholar	2022
Wesley Kraft, UNT McNair Scholar (co-mentor: Jenkins)	2019
Jared Cortez, UNT McNair Scholar/Honors Student	2019

Undergraduate Honors Thesis Mentoring

Luke Boyce	present
Madison Card, UNT	2022
Kara Stuart, UNT	2020
Cade Leinbach, UNT	2020
Jared Cortez, UNT	2019
Sonja Hunter, UNT	2019

Undergraduate Student Honors Thesis Committee Membership

Rafael Cocchi	2021
Jade Rice	2021
Daniel Cole	2020
Nicholas Hasapes	2020
Shante Butler	2019
Lauren Tademy	2019
Daxton Mitchell	2019
Amy Nguyen	2019

UNT Texas Academy of Math and Sciences Student Mentorship

Wail Ahldani, UNT Neurocognitive Laboratory, UNT TAMS program	2020
Michelle Hagenimana, UNT Neurocognitive Laboratory, UNT TAMS program	2018-2019
Connor McKee, UNT Neurocognitive Laboratory, UNT TAMS program	2017-2018

Undergraduate Research Mentoring

Stephanie Camacho, UNT Neurocognitive Laboratory	present
Jessica Meeks, UNT Neurocognitive Laboratory	present
David McGregor, UNT Neurocognitive Laboratory	present

Luke Boyce, UNT Neurocognitive Laboratory	present
Kathryn Phan, UNT Neurocognitive Laboratory	present
Bianca Pirotina, UNT Neurocognitive Laboratory	present
Luis Vasquez, UNT Neurocognitive Laboratory	present
Katherine Workman, UNT Neurocognitive Laboratory	present
Carmen Winters, UNT Neurocognitive Laboratory	2021
Nick Hasapes, UNT Neurocognitive Laboratory	2021
Ashley Risinger, UNT Neurocognitive Laboratory	2020
Allison Wheeler, UNT Neurocognitive Laboratory	2020
Stephon Primous, UNT Neurocognitive Laboratory	2020
Kara Stuart, UNT Neurocognitive Laboratory	2020
Jessica De La Garza, UNT Neurocognitive Laboratory	2018-2019
Sonja Hunter, UNT Neurocognitive Laboratory	2018-2019
Julia Bacci, UNT Neurocognitive Laboratory	2018-2019
Annelise Cornwell, UNT Neurocognitive Laboratory	2018-2019
Nicole Nielsen, UNT Neurocognitive Laboratory	2018-2019
Chelsi Patton, UNT Neurocognitive Laboratory	2017-2019
Zoe Lawson, UNT Neurocognitive Laboratory	2019
Sherianne Maiorelle, UNT Neurocognitive Laboratory	2018
Zach Lovell, UNT Neurocognitive Laboratory	2017-2018
Casey Shaddix, UNT Neurocognitive Laboratory	2017-2018
Paola Tirado, UNT Neurocognitive Laboratory	2017-2018
Brooke Reynolds, UNT Neurocognitive Laboratory	2017-2018
Seth Wanamaker, UNT Neurocognitive Laboratory	2017-2017
Robert Palumbo, NU Laboratory for Human Neuroscience	2016
Lakshmi Karuparth, NU Laboratory for Human Neuroscience	2015
Brianna Pusey, IMSA Fellow, NU Laboratory for Human Neuroscience	2013
Annie Farfara, IMSA Fellow, NU Laboratory for Human Neuroscience	
Travis Hawkins, Research Assistant, Electrophysiology Lab	2011
Rachelle Brunner, Research Assistant, Electrophysiology Lab	
Kristen Arney, Research Assistant, Electrophysiology Lab	
Francesca Dreith, Research Assistant, Electrophysiology Lab	
Robb Talbott, Research Assistant, Electrophysiology Lab	2010
Amanda Miller, Research Assistant, Electrophysiology Lab	
Michael Martinez, Research Assistant, Electrophysiology Lab	
Alex Mahlock, Research Assistant, Electrophysiology Lab	
Bradley Reimers, Research Assistant, Behavioral Lab	
Jenna Jensen, Research Assistant, Behavioral Lab	
Kayla Watson, Research Assistant, Behavioral Lab	
Sarena Mestas, Research Assistant, Virtual Reality Lab	
Carly Sheldon, Research Assistant, Virtual Reality Lab	
Melissa Morris, Research Assistant, Virtual Reality Lab	
Erik Garcia, Research Assistant, Electrophysiology Lab	2009
Michael Martinez, Research Assistant, Electrophysiology Lab	
Cassandra Phillips, HURS Research Assistant, Electrophysiology Lab	
Samuel Leonard, HURS Research Assistant, Electrophysiology Lab	

Sarena Mestas, Research Assistant, Behavioral Lab
Robb Talbott, Research Assistant, Behavioral Lab
Cameron Miller, Research Assistant, Electrophysiology Lab
Will Maher, Research Assistant, Electrophysiology Lab
Meghan Crawford, Research Assistant, Behavioral Lab
Shachar Goldwater, Research Assistant, Behavioral Lab
Lindsey Scott, Research Assistant, Behavioral Lab
Madeline Krawzoff, Research Assistant, Electrophysiology Lab
Chris Boreson, Research Assistant, Electrophysiology Lab
Tom Crews, Research Assistant, Behavioral Lab
Sarah Quirani, Research Assistant, Behavioral Lab
Sandra Monken, Research Assistant, Behavioral Lab

2008

References

Vicki Campbell, Ph.D.

Associate Professor Emerita
Department of Psychology
University of North Texas
1611 West Mulberry Street
Denton, TX 76201
vickicampbell@unt.edu

Joel L. Voss, Ph.D.

Professor
University of Chicago
Professor of Neurology and Computational Neuroscience
5841 S. Maryland Avenue
Chicago, IL 60637
773.702.6222
joelvoss@uchicago.edu

Anne M. Cleary, Ph.D.

Professor
Colorado State University
Department of Psychology
1876 Campus Delivery
Fort Collins, CO 80523-1876
970-491-7701
Anne.Cleary@colostate.edu

Heidemarie Blumenthal Ph.D.

Associate Professor
University of North Texas Department of Psychology
1611 West Mulberry Street
Denton, TX 76201
940-565-4716
Heidemarie.blumenthal@unt.edu