

**CURRICULUM VITAE**  
**David Mark Schnyer**  
**February 2018**

**PERSONAL INFORMATION**

**Current Employment:**

Professor of Psychology  
Department of Psychology  
University of Texas A8000  
Austin, Texas 78712  
tel: (512) 471-8505  
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[Schnyer@utexas.edu](mailto:Schnyer@utexas.edu)

Place of Birth - Englewood, NJ  
Citizenship - USA

**EDUCATION**

1998            University of Arizona, Doctor of Philosophy  
                  Major: Clinical Psychology  
                  Specialization: Neuropsychology  
                  Dissertation Committee Chair: Dr. Alfred W. Kaszniak  
                  Title: *A psychophysiological examination of memory dysfunction and disrupted distributed cortical processing in Alzheimer's dementia*

1998            University Medical Center, Clinical Internship

1994            University of Arizona, Master of Arts, Experimental Psychology

1992            University of Virginia, Bachelor of Arts with Distinction  
                  Major: Latin American Studies  
                  Minor: Psychology

**HONORS AND AWARDS**

2016            John Wiley Best Paper Award for paper published in the Journal of the Association for Information Science and Technology (JASIST) - *How are icons processed by the brain? Neuroimaging measures of four types of visual stimuli used in information systems.*

2015-16        Raymond Dickson Centennial Endowed Teaching Fellowship

2010            NeuroImage - Editors' Choice award (Cognitive Neuroscience Section) for the article - *Identifying objects impairs knowledge of other objects: A relearning explanation for the neural repetition effect*

2006            Fellowship, David Wechsler Regents Chair in Psychology, UT Austin

2005-2007     NIH Clinical Research Loan Repayment Program Recipient - Renewal

2003-2005     NIH Clinical Research Loan Repayment Program Recipient

2001            Laird Cermak Memorial Lecture to the Massachusetts Neuropsychological Society

1996-98        McDonnell-Pew Fellowship in Cognitive Neuroscience

1995-96        Flynn Cognitive Research Fellowship

1993            Social and Behavioral Sciences Student Travel Scholarship, Annual meeting of Society for Psychophysiology Research, Rottach-Egern, Germany

1991-92 Daniel Kerr Stewart Scholarship. University of Virginia

## **PROFESSIONAL EXPERIENCE**

2017-present Organizing Committee Chairman, Community ENgaged Texas Research ALliance (CENTRAL)  
2016-2018 Research & Development Chair for the [CARE Initiative](#)  
2014-present Department Liaison for Medical Affairs  
2014-present Professor of Psychology, University of Texas  
2012-2013 Acting Co-Head of the Cognitive Systems Area  
2006-2014 Associate Professor of Psychology, University of Texas, Austin  
2008-present Full Faculty member, Institute for Neuroscience, UT Austin  
2006-2008 Associate Director of Education, Imaging Research Center, UT Austin  
2002-2006 Assistant Professor of Psychiatry, Boston University School of Medicine  
2001-2008 Visiting Scientist – Department of Radiology, Mass General Hospital  
2000-2002 Research Associate – Memory Disorders Research Center  
1999-00 Research Specialist, Senior - The Cognition and Neuroimaging Laboratories  
1998-99 Post-doctoral Fellow - The Arizona Alzheimer's Disease Research Center

## **RESEARCH INTERESTS**

My research is focused on the Cognitive Neuroscience of mental processes. Particularly, we have examined the neural structures and computational algorithms that contribute to non-declarative memory, associative memory, metamemory and attention/cognitive control. These studies are approached with a range of methodological tools – lesion studies, fMRI and MEG/EEG. More recently we have begun to examine the neurobiological basis of attention control as a contributing factor to mental illness and changes as a result of sleep patterns and traumatic brain injury. This has led to the development of therapeutic techniques that target the attention dysfunction seen in many psychological and neurological disorders.

## **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

Memory Disorders Research Society (elected membership)  
Organization for Human Brain Mapping (Communications Committee - Social Media chair)  
Society for Neuroscience  
Association for Psychological Science

## **GRANT FUNDING:**

### **Current:**

UT Bridging Barriers Initiative – Schnyer (Organizing Committee Chairman). UT VPR 01/2018-2028. ENgaged Texas Research ALliance (CENTRAL). A ten year initiative with an estimated total budget of 10M.

R33MH109600-01 Beevers & Schnyer (Co-PIs) – NIMH 04/01/2016 – 03/31/2019. Development of Attention Bias Modification for Depression. Total - \$1,754,833.

R56MH108650 Beevers(PI), Schnyer (Co-I) – NIMH 09/2016-08/2017. Contribution of genome-wide variation to cognitive vulnerability to depression Goal: This proposal seeks to identify genetic risk factors for biases towards negative information and its contribution to depression vulnerability.

R01AG043425 Schnyer & Worthy (Co-PIs) – NIA 01/2014-12/2018. A computational neuroscience approach to frontal compensation in decision making. Total - \$1,727,640.

R01AG046460 K Fingerman (PI), Schnyer (Co-I). National Institute on Aging (NIA). Social Networks and Well-being in Late Life: A Study of Daily Mechanisms. 2015-2020. \$2,438,341

CDMRP - Manley, et. al., (Co-PIs), Schnyer (UT Site PI)  
Title: TBI Endpoints Development (TED)  
09/01/2014 08/31/2018. Subcontract to UT - \$201,516.

1U01NS086090-01 NINDS - Manley, et. al., (Co-PIs), Schnyer (UT Site PI)  
Title: Transforming Research and Clinical Knowledge in Traumatic Brain Injury II.  
09/01/2013 08/31/2018. Total – \$18,750,000, Subcontract to UT - \$444,116.

W911QY-14-C-0070 DOD:NAVY - Okonkwo, et. al., (Co-PIs), Schnyer (UT Site PI)  
Title: Transforming Research and Clinical Knowledge in TBI (TRACK-TBI). High Definition Fiber Tracking Neuroimaging, Biospecimen, and Data Informatics Repositories  
10/01/2014 09/30/2018. Subcontract to UT - \$ 283,500.

#### **Current - Mentor Role:**

Lupita Gonzalez, Mentoring Fellowship from the Ford Foundation, UT Graduate School and Thematic Fellowship from the College of Liberal Arts (3 years total). Gonzalez (Fellow), Schnyer (Faculty mentor) 9/01/2015-5/31/2018

NIA F31AG052308 Training for the Enhancement of Speech-in-Noise Processing Ability in Older Adults. Chandra (PI), Schnyer (Co-I), Smayda (Doctoral Fellow) 12/20/16 – 12/19/19

#### **Pending:**

#### **Under Review:**

Beevers(PI), Schnyer (Co-I) – NIMH. Contribution of genome-wide variation to cognitive vulnerability to depression

CDMRP – Jorge, Levin & Schnyer (Co-PIs) 07/2017-06/2021. Augmentation of Attention Bias Training With Brain Stimulation To Treat Complex TBI In OIF/OEF/OND Veterans

#### **Past:**

BrainScope – Schnyer (UT Site PI)  
Title: Objective Brain Function Assessment of mTBI from Initial Injury to Rehabilitation and Treatment Optimization. Validation study  
01/01/2017-12/31/2017 Subcontract to UT - \$76,000

UTBrain Initiative – Sulzer (PI), Schnyer, Ferrari, McManis & Abraham (Co-Is)  
Title: Enhancing complex motor performance using MEG neurofeedback  
09/01/2015-08/31/2017. \$97,878

1R21MH101398-01 NIMH – Schnyer & Allen (Co-PIs)  
Title: Identifying EEG indices of neural systems underlying risk for MDD.  
04/2014-03/2017. Total - \$275,000

BrainScope – Schnyer (UT Site PI)  
Title: Objective Brain Function Assessment of mTBI from Initial Injury to Rehabilitation and Treatment Optimization  
07/01/2015-01/31/2017 Subcontract to UT - \$176,000

DOD-Navy - Poldrack & Schnyer (Co-PIs)  
Title: Acquisition of an MRI-compatible EEG system.  
09/2013-08/2014. Total – \$192,000

R01HD021332-21 Judy Langlois (PI), Schnyer (Consultant – EEG portion)  
Title: The origin and significance of appearance-based stereotypes.  
01/01/2010 to 12/31/2014

NINDS - 1U01NS062778 Wright (PI) ProTECT III: Progesterone for the Treatment of Traumatic Brain Injury  
Co-I – Neuropsychology and neuroimaging specialist

NIMH - R21MH092430-01 Beevers (PI) 12/1/2010-11/30/2012, extended to 6/2013  
Attention Training for Major Depressive Disorder  
Co-I –Neuroimaging portion

Chief of the Army – Grant to WP Network Science Center – Mathews (Core PI), Schnyer, Maddox, Beevers – (Co-PIs). 2/11-2/13  
Cognitive and Affective Effects of Soldier Resilience Training - A Field Study  
Co-PI - Cognitive, Affective and Physiological Assessment

NINDS-OD09-004 Manley (PI) 8/1/2009 to 7/31/2011  
Transforming Traumatic Brain Injury Research and Clinical Care  
Co-I – Neuropsychology and neuroimaging specialist

R21 DK081206-02 Freeland (PI) 08/20/2009 to 07/31/10  
Validation and evaluation of a portable body scanner for determination of obesity  
Co-I – Neuroimaging specialist

ARL HRED Schnyer (PI) Kornguth (Core-PI) 2/01/2007-1/31/2009 (extensions available to 2011)  
Sustaining and Enhancing High Optempo Performance of Soldiers in the Transformed Military  
Role: PI, Project 5: fMRI Imaging of Brain Activation in Conditions of Stress and Fatigue (20%)  
(\$890,960 – 2 years)

Mind & Life Institute Saggar (Student PI) Schnyer (Faculty mentor) 3/01/2007-2/28/2008  
Developing a Computational Model for Meditation Using Cross Cortical Synchrony in EEG Data  
Role: Faculty mentor  
(\$10,000)

HD046442 Alexander (PI) 12/1/04 – 11/30/08  
NIH/HD

Cognitive and functional recovery after cardiac arrest  
Role: Co-I, in experimental protocol and statistical analysis (15% time)  
(\$1,111,140)

Merit Review            McGinchey (PI)            3/05-2/10  
Classical Associative Learning in Male and Female Detoxified Veterans  
Role: Co-I, in charge of the neuroimaging component. (5% time)

AA014205                McGinchey (PI)            10/01/04 – 9/31/09  
NIH/AA  
Cognitive Changes Associated with Chronic Alcohol Abuse  
Role: Co-I, in charge of the neuroimaging component. (5% time)  
(\$1,125,000)

Instructional Technology Grant Proposal – College of Liberal Arts UT Austin  
*Neuroimaging Imaging in the Classroom*    Schnyer (PI)  
Proposal to establish a Neuroimaging Classroom in Psychology with 30 workstations and Web based interface  
9/07-5/08 (\$105,000)

MH64004                Schnyer (PI)                08/01/01 – 07/31/06  
NIH/NIMH  
Preserved and Disrupted Memory Processing in Amnesia  
This K-award is a training grant aimed at gaining expertise in multimodal brain imaging technologies and applying these to the study of preserved and disrupted memory processing in amnesia.  
Role: PI

NIH/NIA                Albert (PI)                8/03-7/08  
Language in the Aging Brain  
Role: Neuroimaging specialist (30% time)

1999-00                University of Arizona Center for Consciousness Studies Small Grant Program (renewal) -  
PI: David M. Schnyer (10K)

1998-99                University of Arizona Center for Consciousness Studies Small Grant Program- PI: David  
M. Schnyer (20K)

1996-98                Dissertation funding from the NIH funded National Center for Neurogenic  
Communication Disorders PI: David M. Schnyer (10K)

1994                    Office of the Dean, Social and Behavioral Sciences Small Research Grants Program- PI:  
John J.J.B. Allen (5K)

**Past Mentor Role:**

NIMH F31 MH092959-01A1 Cognitive Control of Emotional Information in Major Depressive  
Disorder Beevers (PI), Schnyer (Co-PI), Clausen (Doctoral Fellow) 7/01/11 – 6/30/13

UT Graduate Student Diversity Fellowship. Knight (Fellow), Schnyer (Faculty mentor) 9/01/2010-  
5/31/2011

AA017022-01A1 NIA – Fromme (PI), Schnyer (Co-PI), Wetherhill (Doctoral Fellow) 7/01/08 – 6/30/09  
Neural Substrates of Inhibition: A Prospective Test Among Adolescents at Genetic Risk for Depression

Emily Viehman, University of Texas College of Liberal Arts Graduate Fellowship 9/1/2013-5/1/2018

Undergraduate Research Fellowship, UT Austin 5/31/2009 (\$1000)	Tenison (PI) Schnyer (Faculty Mentor) 4/1/2009-
Undergraduate Research Fellowship, UT Austin 8/31/2008 (\$1000)	Williams (PI) Schnyer (Faculty Mentor) 1/3/2008-
Undergraduate Research Fellowship, UT Austin 8/31/2008 (\$1000)	Dailey (PI) Schnyer (Faculty Mentor) 1/3/2008-
Undergraduate Research Fellowship, UT Austin 8/31/2010 (\$1000)	Zik (PI) Schnyer (Faculty Mentor) 3/1/2010-
Undergraduate Research Fellowship, UT Austin 8/31/2014 (\$1000)	Witkowski (PI) Schnyer (Faculty Mentor) 3/1/2014-
Undergraduate Research Fellowship, UT Austin 10/1/2014-5/15/2015 (\$1000)	Alvarez-Keesee (PI) Schnyer (Faculty Mentor)
Undergraduate Research Fellowship, UT Austin 10/1/2015-8/31/2016 (\$1000)	Tolan B Nguyen (PI) Schnyer (Faculty Mentor)
Undergraduate Research Fellowship, UT Austin 10/1/2014-5/15/2015 (\$1000)	Jiazhou Chen (PI) Schnyer (Faculty Mentor)
Liberal Arts Honors Research Fellowship, UT Austin Mentor) 12/1/2014-5/15/2015 (\$1000)	Lyndsey Chong (PI) Schnyer (Faculty Mentor)
UT-Pan American Undergraduate Research Program (RISE). 05/2014 – 08/2014.	Alejandra Reyna (Faculty Mentor)

## **PUBLICATIONS:**

### **Peer-Reviewed Journal Articles:**

Mentored authors – Undergraduate, Graduate, postdoctoral

Wickwire, E.M., **Schnyer, D.M.** Germain, A, Williams, S.G., Lettieri, C.J., McKeon, A.B., Scharf, S.M., Stocker, R., Albrecht, J., Badjatia, N., Markowitz, A.J. & Manley, G.T. (Accepted). Sleep, sleep disorders, and circadian health following mild traumatic brain injury: Review and research agenda, *Journal of Neurotrauma*.

Rubenstein, R., Chang, B., Yue, J. K., Chiu, A., Winkler, E. A., Puccio, A. M., Diaz-Arrastia R., Yuh E.L., Mukherjee P., Valadka A.B., Gordon W.A., Okonkwo D.O., Davies P., Agarwal S., Lin F., Sarkis G., Yadikar H., Yang Z., Manley G.T., Wang K.K.W.; and the TRACK-TBI Investigators, Cooper S.R., Dams-O'Connor K., Borrasso A.J., Inoue T., Maas A.I.R., Menon D.K., **Schnyer D.M.**, & Vassar M.J. (2017). Comparing Plasma Phospho Tau, Total Tau, and Phospho Tau-Total Tau Ratio as Acute and Chronic Traumatic Brain Injury Biomarkers. *JAMA Neurology*, 74(9), 1063–1072.

Neville, C., Baracks, J., Casa, D., Covassin, T., Sacko, R., Scarneo, S., **Schnyer, D.** & Yeargin, S. (Accepted) Acute sports-related concussion screening for collegiate athletes using an instrumented balance assessment. *Journal of Athletic Training*.

Dainer-Best, J., Trujillo, L.T., **Schnyer, D.M.** & Beevers, C.G. (2017). Sustained Engagement of Attention is Associated with Increased Negative Self-Referent Processing in Major Depressive Disorder. *Biological Psychology*.

Ameri, S.K., Ho, R., Jang, H., Tao, L., Wang, Y., Wang, W., **Schnyer, D.M.**, Akinwande, D., & Lu, N. (2017). Graphene Electronic Tattoo Sensors, *ACS Nano*, 11, 7634–7641.

**Schnyer, D.M.**, Gonzalez, C., Clasen, P. & Beevers, C.G. (2017). Evaluating the diagnostic utility of applying a machine learning algorithm to diffusion tensor MRI measures in individuals with major depressive disorder. *Psychiatry Research: Neuroimaging*. 30;264:1-9.

Palacios, EM. Yuh, E.L., Chang, Y, Yue, J.K., **Schnyer, D.M.**, Okonkwo, D.O., Valadka, A.B., Gordon, W.A., Maas, A.I.R., Vassar, M., Manley, G.T., Mukherjee, P. (2017). Resting-state functional connectivity alterations associated with 6-month outcomes in mild traumatic brain injury. *Journal of Neurotrauma*. 15;34(8):1546-1557.

Palacios, E.M., Martin, A.J., Boss, M., Ezekiel, F., Chang, Y.S., Yuh, E.L., Vassar, M.J., **Schnyer, D.M.**, Mac Donald, C.L., Crawford, K.L., Irimia, A. & Toga, A.W. (2017). Towards Precision and Reproducibility of Diffusion Tensor Imaging: A Multicenter Diffusion Phantom and Traveling Volunteer Study, *American Journal of Neuroradiology*, 38 (3) 537-545.

Wang KK, Yang Z, Yue JK, Zhang Z, Winkler EA, Puccio AM, Diaz-Arrastia R, Lingsma HF, Yuh EL, Mukherjee P, Valadka AB, Gordon WA, Okonkwo D, Manley GT, Cooper SR, Dams-O'Connor K, Hricik AJ, Inoue T, Maas AI, Menon DK, **Schnyer DM**, Sinha TK & Vassar MJ (2016). Plasma Anti-Glial Fibrillary Acidic Protein Autoantibody Levels during the Acute and Chronic Phases of Traumatic Brain Injury: A Transforming Research and Clinical Knowledge in Traumatic Brain Injury Pilot Study. *Journal of Neurotrauma*. 33(13), 1270-7.

Goldwater, M.B., Markman, A.B., Trujillo, L.T. & **Schnyer, D.M.** (2015). Licensing Novel Role-Governed Categories: An ERP Analysis. *Frontiers in Psychology*.

Yang, S., Chen, Y., Nicolini, L., Pasupathy, P., Sacks, J., Su, B., Yang, R., Sanchez, D., Chang, Y., Wang, P., **Schnyer, D.**, Neikirk, D. & Lu, N. (2015). "Cut-and-Paste" Manufacture of Multiparametric Epidermal Sensor Systems (ESS). *Advanced Materials*.

Sherman, S.M., Mumford, J. & **Schnyer, D.M.** (2015). Hippocampal activity mediates the relationship between circadian activity rhythms and memory in aging. *Neuropsychologia*. 75, 617-625.

Sanguinetti, J.L., Trujillo, L.T., **Schnyer, D.M.**, Allen, J.B., & Peterson, M.A. (2015). Increased alpha band activity indexes inhibitory competition across a border during figure assignment. *Vision Research*.

Korley, F.K., Diaz-Arrastia, R., Wu, A.H.B., Yue, J.K., Manley G.T., Sair, H.I., Van Eyk, J., Everett, A.D., Okonkwo D.O., Valadka A.B., Gordon W.A., Maas A.I.R., Mukherjee P., Yuh E.L., Lingsma H. F., Puccio, A.M. & **Schnyer D.M** (2015). Circulating Brain Derived Neurotrophic Factor (BDNF) Has Diagnostic and Prognostic Value in Traumatic Brain Injury. *Journal of Neurotrauma*.

**Schnyer, D.M.**, Beevers, C.G., deBettencourt, M.T., Sherman, S., Cohen, J.D., Norman, K.A. & Turk-Browne, N.B. (2015). Neurocognitive therapeutics: From concept to application in the treatment of negative attention bias. *Biology of Mood and Anxiety Disorders*.

McMahon, P. J., Panczykowski, D. M., Yue, J. K., Puccio, A. M., Inoue, T., Sorani, M. D., Lingsma H. F., Maas A.I.R., Valadka A.B., Yuh E.L., Mukherjee P., Manley G.T., Okonkwo D.O., TRACK-TBI investigators including: Casey S.S., Cheong M., Cooper S.R., Dams-O'Connor K., Gordon W.A., Hricik A.J., Lawless K., Menon D., **Schnyer D.M.**, and Vassar M.J. (2015). Measurement of the Glial Fibrillary Acidic Protein and Its Breakdown Products GFAP-BDP Biomarker for the Detection of

Traumatic Brain Injury Compared to Computed Tomography and Magnetic Resonance Imaging. *Journal of Neurotrauma*. 32(8), 527-533.

Sherman, S.M., Cheng, Y., Fingerman, K.L., & **Schnyer, D.M.** (2015). Social support, stress, and the aging brain. *Social Cognitive & Affective Neuroscience*.

Yue, J.K., Pronger, A.M., Ferguson, A.R., Temkin, N.R., Sharma, S., Rosand, J., Sorani, M.D., McAllister, T.W., Barber, J., Winkler, E.A., Burchard, E.G., Hu, D., Lingsma, H.F., Cooper, S.R., Puccio, A.M., Okonkwo, D.O., Diaz-Arrastia, R., Manley, G.T. and TRACK-TBI Investigators including **Schnyer, D.M.** (2015). Association of a Common Genetic Variant Within ANKK1 with Six-Month Cognitive Performance After Traumatic Brain Injury. *Neurogenetics*.

Beevers, C.G., Clasen, P., Enock, P.M., & **Schnyer, D.M.** (2015). Attention Bias Modification for Major Depressive Disorder: Effects on Attention Bias, Resting State Connectivity, and Symptom Change. *Journal of Abnormal Psychology*.

Diaz-Arrastia, R., Wang, K. K. W., Papa, L., Sorani, M. D., Yue, J. K., Puccio, A. M., McMahon, P.J., Inoue, T., Yuh, E.L., Lingsma, H.F., Maas, A.I.R., Valadka, A.B., Okonkwo, D.O., Manley, G.T. and the TRACK-TBI Investigators, including Casey, S.S., Cheong, M., Cooper, S.R., Dams-O'Connor, K., Gordon, W.A., Hricik, A.J., Menon, D.K., Mukherjee, OP., **Schnyer, D.M.**, Sinha, T.K. and Vassar, M.J. (2014). Acute Biomarkers of Traumatic Brain Injury: Relationship between Plasma Levels of Ubiquitin C-Terminal Hydrolase-L1 and Glial Fibrillary Acidic Protein. *Journal of Neurotrauma*, 31(1), 19–25.

Witkowski, S., Trujillo, L. T., Sherman, S. M., Carter, P., Matthews, M. D., & **Schnyer, D. M.** (2014). An examination of the association between chronic sleep restriction and electrocortical arousal in college students. *Clinical Neurophysiology : Official Journal of the International Federation of Clinical Neurophysiology*. 126(3), 549-557.

Yuh, E. L., Cooper, S. R., Mukherjee, P., Yue, J. K., Lingsma, H., Gordon, W., Valadka, A., Okonkwo, D.O., **Schnyer, D.M.**, Vassar, M.J., Maas, A., Manley, G.T., Casey, S.S., Cheong, M., Dams-O'Connor, K., Hricik, A.J., Inoue, T., Menon, D., Morabito, D.J., Pacheco, J.L., Puccio, A.M., & Tuhin K Sinha et al. (2014). Diffusion Tensor Imaging for Outcome Prediction in Mild Traumatic Brain Injury: A TRACK-TBI Study. *Journal of Neurotrauma*. 31(17), 1457-1477.

Lingsma, H., Yue, J. K., Maas, A., Steyerberg, E. W., Manley, G. T., Cooper, S. R., Dams-O'Connor, K., Menon, D., Mukherjee, P., Okonkwo, D.O., Puccio, A.M., **Schnyer, D.M.**, Valadka, A., Vassar, M.J. & Yuh, E.L. (2015). Outcome Prediction After Mild and Complicated Mild Traumatic Brain Injury: External Validation of Existing Models and Identification of New Predictors Using the TRACK-TBI Pilot Study. *Journal of Neurotrauma*. 32(2), 83-94.

Lim, C., Verfaellie, M., **Schnyer, D.M.**, Lafleche, G., & Alexander, M.P. (2014). Predictors of quality of life following out-of-hospital cardiac arrest. *Journal of Rehabilitation Medicine*. 46(7), 691-697.

Huang, S.C., Bias, R.G., & **Schnyer, D.M.** (2014) Are icons cognitively processed as pictures or as logographical words? Neuroimaging measures of four types of visual stimuli used in information systems. *Journal of the American Society for Information Science and Technology*.



McMahon, P., Hricik, A., Yue, J. K., Puccio, A. M., Inoue, T., Lingsma, H. F., Beers S.R., Gordon W.A., Valadka A.B., Manley G.T., Okonkwo D.O., Casey S.S., Cooper S.R., Dams-O'Connor K., Menon D.K., Sorani M.D., Yuh E.L., Mukherjee P., **Schnyer D.M.**, & Vassar M.J. (2013). Symptomatology and Functional Outcome in Mild Traumatic Brain Injury: Results from the Prospective TRACK-TBI Study. *Journal of Neurotrauma*.

Vanderlind, M.W., Beevers, C.G., Sherman, S.M., Trujillo, L.T., McGeary, J.E., Matthews, M.D., Maddox, W.T. & **Schnyer, D.M.** (2013). Sleep and Sadness: Exploring the Relation among the *CLOCK* Gene, Sleep, Cognitive Control, and Change in Depression Symptoms. *Sleep Medicine*. 15 (1), 144-149.

Clasen, P., Mumford, J., Beevers, C.G. & **Schnyer, D.M.** (2013). Cognitive control network connectivity in adolescent women with and without a parental history of depression. *Developmental Cognitive Neuroscience*. 7, 13-22.

Okonkwo, D.O., Yue, J.K., Puccio, A.M., Panczykowski, D.M., Inoue, T., McMahon, P.J., Sorani, M.D., Yuh, E.L., Lingsma, H.F., Maas, A.I.R., Valadka, A.B., Manley, G.T., and Transforming Research and Clinical Knowledge in Traumatic Brain Injury investigators including, Casey, S.S., Cheong, M., Cooper, S.R., Dams-O'Connor, K., Gordon, W.A., Hricik, A.J., Hochberger, K., Menon, D.K., Mukherjee, P., Sinha, T.K., **Schnyer, D.M.** and Vassar, M.J. (2013). GFAP-BDP as an Acute Diagnostic Marker in Traumatic Brain Injury: Results from the Prospective Transforming Research and Clinical Knowledge in Traumatic Brain Injury Study. *Journal of Neurotrauma*. 30, 1490–1497.

Dams-O'Connor, K., Spielman, L., Singh, A., Gordon, W.A., Yue, J.K., Yuh, E. L., Valadka, A.B., Lingsma, H.F., Mukherjee, P., Puccio, A.M., Okonkwo, D.O., **Schnyer, D.M.**, Maas, A.I.R., Manley, G.T. and the TRACK-TBI Investigators (2013). The Impact of Prior Traumatic Brain Injury on Health and Functioning: A TRACK-TBI study. *Journal of Neurotrauma*. 30(24), 2014-2020.

Yue, J.K., Vassar, M.J., Lingsma, H.F., Cooper, S.R., Okonkwo, D.O., Valadka, A.B., Gordon, W.A., Maas, A.I.R., Mukherjee, P., Yuh, E.L., Puccio, A.M., **Schnyer, D.M.** & Manley, G.T. and TRACK-TBI Investigators (2013). Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) Pilot: Multicenter Implementation of the Common Data Elements for Traumatic Brain Injury. *Journal of Neurotrauma*. 30(22), 1831-1844.

Yuh, E.L., Mukherjee, P., Lingsma, H.F., Yue, J.K., Ferguson, A.R., Gordon, W.A., Valadka, A.B., **Schnyer, D.M.**, Okonkwo, D.O., Maas, A.I.R., & Manley, G.T., (2013) MRI Improves 3-Month Outcome Prediction in Mild Traumatic Brain Injury. *Annals of Neurology*. 73(2), 224-235.

Pacheco, J., Beevers, C.G., McGeary, J.E., & **Schnyer, D.M.** (2012). Memory monitoring performance and PFC activity are associated with 5-HTTLPR genotype in older adults. *Neuropsychologia*. 50, 2257–2270.

Kornguth, S., Steinberg, R., **Schnyer, D.** & Trujillo, L. (2013). Integrating the Human into the Total System: Degradation of Performance Under Stress. *Naval Engineers Journal*. 125(4), 85-90.

Wetherill, R.R., **Schnyer, D.M.** & Fromme, K., (2012). Acute Alcohol Effects on Contextual Memory BOLD Response: Differences Based on Fragmentary Blackout History. *Alcoholism: Clinical and Experimental Research*. 36(6), 607–617.

Salat, D. H., Williams, V. J., Leritz, E. C., **Schnyer, D. M.**, Rudolph, J. L., Lipsitz, L. A., McGlinchey, R. E., & Milberg, W.P. (2011). Interindividual variation in blood pressure is associated with regional white matter integrity in generally healthy older adults. *NeuroImage*. 59, 181-192.

Worthy, D.A., Gorlick, M.A., Pacheco, J., Schnyer, D.M. & Maddox, W.T. (2011). With Age Comes Wisdom: Decision-Making in Younger and Older Adults. *Psychological Science*. 22, 1375-1380.

Glass, B.D., Chotibut, T., Pacheco, J., Schnyer, D.M. & Maddox, W.T. (2012). Normal Aging and the Dissociable Prototype Learning Systems. *Psychology of Aging*. 2(1), 120-128.

Trujillo, L.T. & Schnyer, D.M. (2011). Neurobehavioral Correlates of the Formation of Symbolic Visuospatial Control of Attention. *Psychophysiology*. 48(9), 1227–1241.

Leritz, E. C., Salat, D. H., Williams, V. J., **Schnyer, D. M.**, Rudolph, J. L., Lipsitz, L., Fischl, B., McGlinchey, R. E. & Milberg, W. et al. (2011). Thickness of the human cerebral cortex is associated with metrics of cerebrovascular health in a normative sample of community dwelling older adults. *Neuroimage*, 54(4), 2659-2671.

Alexander, M. P., Lafleche, G., **Schnyer, D.**, Lim, C., & Verfaellie, M. (2011). Cognitive and Functional Outcome After Out of Hospital Cardiac Arrest. *J Int Neuropsychol Soc*, 1-5.

Maddox, W.T., Glass, B.C., Zeithamova, D., Savarie, Z.R., Bowen, C., Mathews, M.D., & Schnyer, D.M. (2011). The Effects of Sleep Deprivation on Dissociable Prototype Learning Systems. *Sleep*. 34 (3) pp. 253-60

Maddox, W. T., Pacheco, J., Reeves, M., Zhu, B., & Schnyer, D. M. (2010). Rule-based and information-integration category learning in normal aging. *Neuropsychologia*, 48(10), 2998-3008.

Glass, B.D., Markman, A.B., Maddox, W.T., & Schnyer, D.M. (2010). The Effects of 24-hour Sleep Deprivation on the Exploration-Exploitation Trade-off. *Biological Rhythm Research*. 41 (2), 1-12.

Beevers, C, Clasen, P., Stice, E, & **Schnyer, D.M.** (2010). Depression Symptoms and Cognitive Control of Emotion Cues: An fMRI Study, *Neuroscience*, 167. 97-103

Beevers, C, Pacheco, J., Clasen, P. McGeary, J. & **Schnyer, D.M.** (2010). Prefrontal Morphology, 5-HTTLPR Polymorphism, and Biased Attention for Emotional Stimuli. *Genes, Brain and Behavior*, 9, 224-233.

Trujillo, L.T., Allen, J.B., **Schnyer, D.M.**, & Peterson, M.A. (2010). Neurophysiological evidence for the influence of past experience on figure-ground perception. *Journal of Vision*. 20, 1-21.

Leritz, E.C., Salat, D.H., Milberg, W.P., Williams, V.J., Chapman, C.E., Grande, L.J., Rudolph, J.L., **Schnyer, D.M.**, Barber, C.E., Lipsitz, L., Fischl, B., McGlinchey, R.E. (2010). Variation in Blood Pressure is Associated with White Matter Microstructure but not Cognition in African Americans. *Neuropsychology*, 24, 199-208.

Saggar, M., Miikkulainen, R.P. & Schnyer, D.M. (2010). Behavioral, neuroimaging, and computational evidence for perceptual caching in repetition priming. *Brain Research*. 1315, 75-91.

Marsolek, C.J., Deason, R.G., Ketz, N.A., Ramanathan, P., Bernat, E.M., Steele, V.R., Patrick, C.J., Verfaellie, M., **Schnyer, D.M.** (2010). Identifying objects impairs knowledge of other objects: A relearning explanation for the neural repetition effect. *NeuroImage*. 49, 1919-1932.

- Schnyer, D.M.**, Maddox, W.T., Ell, S., Davis, S., Pacheco, J., & Verfaellie, M. (2009). Prefrontal contributions to rule-based and information integration category learning. *Neuropsychologia*, 47, 2995-3006.
- Beevers, C.G. & **Schnyer, D.M.** (2009). The Serotonin System and the Cognitive Control of Emotion: Associations with Depression Vulnerability. *Frontiers in Neuroscience*. 3. 248-249.
- Obler, L.K., Rykhlevskaia, E., **Schnyer, D.M.**, Clark-Cotton, M.R., Hyun, J., Kim, D., Spiro, A., Goral, M., Albert, M.L. (2010). Bilateral Brain Regions Associated with Naming in Older Adults. *Brain and Language*. 113, 113-23.
- Pacheco, J., Beevers, C., **Benavides, C.**, McGeary, J., Stice, E. and **Schnyer, D.M.** (2009). Frontal-Limbic White Matter Pathway Associations with the Serotonin Transporter Gene Promoter Region (5-HTTLPR) Polymorphism. *Journal of Neuroscience*, 29. 6229-6233.
- Maddox, W.T., Glass, B.C., Wolosin, S.M., Savarie, Z.R., Bowen, C., Mathews, M.D., & **Schnyer, D.M.** (2009). The Effects of Sleep Deprivation on Information-Integration Categorization Performance. *Sleep*. 32, 1439-48.
- Trujillo, L.T., Kornguth, K., & **Schnyer, D.M.** (2009). An ERP Examination of the Differential Effects of Sleep Deprivation on Exogenously Cued and Endogenously Cued Attention. *Sleep*, 32, 1285-1297.
- Rocklage, M, **Williams, V.**, Pacheco, J. & **Schnyer, D.M.** (2009). White matter differences predict cognitive vulnerability to sleep deprivation. *Sleep*. 32. 1100-1103.
- Schnyer, D.M.**, Zeithamova, D. & **Williams, T.** (2009). Decision Making Under Conditions of Sleep Deprivation: Cognitive and Neural Consequences. *Military Psychology* 21, 36-45.
- Glass, B.D., Maddox, W.T., Markman, A.B., & **Schnyer, D.M.** (2009). The Effects of Sleep Deprivation on the Exploration-Exploitation Tradeoff. *Military Psychology*, 21, 46-54.
- Maddox, W.T., Zeithamova, D. & **Schnyer, D.M.** (2009). Dissociable Processes in Classification: Implications from Sleep Deprivation. *Military Psychology*, 21, 55-61.
- Giovanello, K.S., **Schnyer, D.M.**, & Verfaellie (2009). Distinct hippocampal regions make unique contributions to relational memory, *Hippocampus*. 19:2, 111-117.
- Zeithamova, D., Maddox, W.T., & **Schnyer, D.M.** (2008). Dissociable Prototype Learning Systems: Evidence from Brain Imaging and Behavior. *Journal of Neuroscience*. 28, 13194-13201.
- Ghuman, A.S., Bar, M., Dobbins, I.G., & **Schnyer, D.M.** (2008). The Effects of Priming on Frontal-Temporal Communication. *Proceedings of the National Academy of Science*, 24, pp. 8405– 8409.
- Rosenbaum, R.S., Moscovitch, M., Foster, J.K., **Schnyer, D.M.**, Gao, F.Q., Kovacevic, N., Verfaellie, M., Black, S.E., & Levine, B. (2008) Patterns of autobiographical memory loss in medial temporal lobe amnesic patients. *Journal of Cognitive Neuroscience*. *Journal of Cognitive Neuroscience*, 20, pp. 1–17.

- Sorond, F.A., **Schnyer, D.M.**, Serrador, J.M., Milberg, W.P., & Lipsitz, L.A. (2008). Cerebral blood flow regulation during cognitive tasks: Effects of healthy aging. *Cortex*, 44(2), pp. 179-184.
- Kan, I.P., Giovanello, K.S., **Schnyer, D.M.**, Makris, N., Verfaellie, M. (2007). Role of the medial temporal lobes in relational memory: Neuropsychological evidence from a cued recognition paradigm. *Neuropsychologia*. 45(11), 2589-97.
- Eddy, M., **Schnyer, D.M.**, Schmidt, A., & Holcomb, P. (2007). Spatial Dynamics of Masked Picture Repetition Effects. *NeuroImage*, 34(4), 1723-1732.
- Schnyer, D. M.**, Dobbins, I. G., Nicholls, L., Verfaellie, M., & Schacter, D. L. (2007). Item to decision mapping in rapid response learning. *Memory and Cognition*. 11, 1472-1482.
- Ryan, L.T., & **Schnyer, D.M.** (2007). Regional specificity of format specific priming effects in a word reading task using functional magnetic resonance imaging. *Cerebral Cortex*. 17(4), 982-992.
- Marsolek, C.J., **Schnyer, D.M.**, Deason, R.G., Ritchey, M., & Verfaellie, M. (2006). Visual anti-priming: Functional evidence for superimposed visual object representations. *Cognitive, Affective, & Behavioral Neuroscience*. 6(3), 163-174.
- Schnyer, D.M.**, Dobbins, I.G., Nicholls, L.D., & Verfaellie, M. (2006) Rapid response learning in amnesia: Delineating associative learning components in repetition priming. *Neuropsychologia*, 44, 140-149.
- Schnyer, D.M.**, Nicholls, L.D., & Verfaellie, M. (2005). The role of VPMC in metamemorial judgments of content retrievability. *Journal of Cognitive Neuroscience*. 17, 832-846
- Schacter, D.L., Dobbins, I.G., and **Schnyer, D.M.** (2004). Specificity of priming: A cognitive neuroscience perspective. *Nature Neuroscience Reviews*. 5, 853-62.
- Hayes, S.M., Ryan, L., **Schnyer, D.M.** & Nadel, L. (2004). An fMRI Study of Episodic Memory: Retrieval of Object, Spatial, and Temporal Information. *Behavioral Neuroscience*, 118, 885-896.
- Lim, C., Alexander, M.P., LaFleche, G., **Schnyer, D.M.**, and Verfaellie, M. (2004). The neurological and cognitive sequelae of cardiac arrest. *Neurology*, 63,1774-8.
- Dobbins, I.G., **Schnyer, D.M.**, Verfaellie, M., & Schacter, D.L. (2004). Cortical activity reductions during repetition priming can result from rapid response learning. *Nature*, 428:6980, 316-319.
- Schnyer, D.M.**, Verfaellie, M., Alexander, M.P., LaFleche, G., Nicholls, L., & Kaszniak, A.W. (2004). A Role for Right Medial Prefrontal Cortex in Accurate Feeling of Knowing Judgments: Evidence from Patients with Lesions to Frontal Cortex. *Neuropsychologia*, 42:7, 957-966.
- Giovanello, K., **Schnyer, D.M.** & Verfaellie, M. (2004). Critical Role for the Anterior Hippocampus in Relational Memory: Evidence from a fMRI Study Comparing Associative and Item Recognition. *Hippocampus*, 14:1, 5-8.
- De Weerd, P., Reinke, K., Ryan, L., McIsaac, T., Perschler, P., **Schnyer, D.**, Trouard, T., & Gmitro, A. (2003). Cortical Mechanisms for Acquisition and Performance of Bimanual Motor Sequences. *NeuroImage*, 19, 1405-1416.

**Schnyer, D.M.**, Ryan, L.T., T.E. Trouard, & Forster, K.I. (2002). Masked word repetition results in increased fMRI signal: A framework for understanding signal changes in priming. *NeuroReport*, 13, 281-284.

Ryan, L., Nadel, L., Keil, T., Putnam, K., **Schnyer, D.**, Trouard, T., & Moscovitch, M. (2001). The hippocampal complex and retrieval of recent and very remote autobiographical memories: Evidence from functional magnetic resonance imaging in neurologically intact people. *Hippocampus*, 11, 707-714.

**Schnyer, D.M.**, Allen, J.J.B., Kaszniak, A.W. & Forster, K. (1999). An Event-Related Potential Examination of Masked and Unmasked Repetition Priming in Alzheimer's Disease: Implications for Theories of Implicit Memory. *Neuropsychology*, 13, 323-337.

**Schnyer, D.M.**, Allen, J.J.B. & Forster, K. (1997). An Event-Related Brain Potential Examination of Implicit Memory Processes: Masked and Unmasked Repetition Priming. *Neuropsychology*, 11, 243-260.

**Schnyer, D.M.**, and Allen, J.J. (1995). Attention-related electroencephalographic and event-related potential predictors of responsiveness to suggested posthypnotic amnesia. *The International Journal of Clinical and Experimental Hypnosis*, 43, 295-315.

### **Peer-Reviewed Published Proceedings**

S. K. Ameri, R. Ho, H. Jang, Y. Wang, D. M. Schnyer, D. Akinwande and N. Lu (2016). "Thinnest transparent epidermal sensor system based on graphene," *2016 IEEE International Electron Devices Meeting (IEDM)*, San Francisco, CA, USA, 2016, pp. 18.4.1-18.4.4.

Saggar, M., Miikkulainen, R. & Schnyer, D.M. (2008). Memory Processes in Perceptual Decision Making. Proceedings of the 30th Annual Conference of the Cognitive Science Society (p. 2210). Austin, TX: Cognitive Science Society.

### **Books:**

Mathews, M.D., & **Schnyer, D.M.** (Eds). *Human Performance Optimization: The Science and Ethics of Enhancing Human Capabilities*. Oxford University Press. Contracted for July 2018 publication.

### **Book Chapters:**

Dobbins, I.G. & **Schnyer, D.M.** (in press). Convergent methods of memory research. In *The Stevens Handbook of Experimental Psychology and Cognitive Neuroscience*, Fourth Edition.

Sherman, S. & **Schnyer, D.M.** (2015). Major and Mild Neurocognitive Disorders. In: Howard S. Friedman (Editor in Chief), *Encyclopedia of Mental Health*, 2nd edition, Vol 3, Waltham, MA: Academic Press, pp. 33-38.

**Schnyer, D.M.** (2012). Rapid response learning in amnesia. N.M. Seel, Ed In *Encyclopedia of the Sciences of Learning*. Springer, Heidelberg. 2770-2773.

Rocklage, M., Maddox, W.T., Trujillo, L.T., **Schnyer, D.M.** (2010). Individual differences to sleep deprivation vulnerability and the neural connection with task strategy, metacognition, visual spatial attention, and white matter differences. In S. Kornguth, R. Steinberg, & M.D. Matthews (Eds). *Neurocognitive and physiological factors during high-temp operations*. Ashgate Publishing, Burlington, VT.

Obler, L.K., Albert, M.L., Spiro, A., Goral, M., Rykhlevskaia, E., Hyun, J., & **Schnyer, D.M.** (2011). Language Changes Associated with Aging. In M. L. Albert and J. E. Knoefel, Eds. *Clinical Neurology of Aging*, Third Edition, Oxford University Press.

**Peer-Reviewed Published Abstracts (selected):**

Steele, V. R., Deason, R. G., Bernat, E. M., Patrick, C. J., Schnyer, D. M., & Marsolek, C. J. (2008). Early and late effects in event-related potentials differentiate visual object priming and antipriming. Presented at the Society for Psychophysiological Research Annual Meeting, Austin, TX. *Psychophysiology*, 45 (Suppl.), 23.

Eddy, M. Schnyer, D.M. Schmid, A. & Holcomb, P.J. (2005). fMRI Repetition Effects of Masked Picture Priming. *Journal of Cognitive Neuroscience*, Supplement, G243.

D. M. Schnyer, L. D. Nicholls, M. Verfaellie, and C. J. Marsolek (2005). Visual anti-priming: Tests of amnesic patients and older controls. *Journal of Cognitive Neuroscience*, Supplement, C147.

Schnyer, D.M., Nicholls, L. & Verfaellie, M. (2004). Medial prefrontal cortex and its role in assessing the accessibility of episodic memories: An fMRI examination. *Journal of Cognitive Neuroscience*, Supplement, D114.

Giovanello, K., Schnyer, D.M. & Verfaellie, M. (2003). A Critical Role for the Hippocampus in Relational Memory: Evidence from a fMRI Study Comparing Associative and Item Recognition. *Neuroimage*, 19(2), S26.

Schnyer, D.M., Verfaellie, M., LaFleche, G., Pannu, J.K., & Kaszniak, A.W. (2003). Localizing judgments of memory ability in the prefrontal cortex: Evidence from patients with frontal lesions. *Journal of the International Neuropsychological Society*, 9(2), 313.

Schnyer, D.M., Giovanello, K.S., West, W.C., Halgren, E. & Verfaellie, M. (2001). An fMRI Examination of Semantic Priming in a Patient with Semantic Dementia. *Neuroimage*, 13(6) S737.

Schnyer, D.M., Ryan, L., Forster, K.I., & Trouard, T. (2000). An event-related fMRI examination of masked word priming: Are signal reductions related to conscious experience of the prime? *Neuroimage*, 11(5), S445.

Schnyer, D.M., Ryan, L., Trouard, T. (2000). An event-related fMRI examination of format specific word priming. *Neuroimage*, 11(5), S428.

Schnyer, D.M., Ryan, L., Trouard, T., & Moscovitch, M. (2000). Is right frontal activation related to retrieval mode or post-retrieval monitoring and evaluation? A new methodology using event related fMRI. *Neuroimage*, 11(5), S430.

Schnyer, D.M., Allen, J.J.B., Kaszniak, A.W., and Marsolek, C.J (1996). An Event Related Brain Potential Examination of Using Masked Visual Cues to Manipulate Early Attentional Processing In Elderly Subjects. *Psychophysiology*, 33, Supplement 1, S75.

Schnyer, D.M., and Allen, J.J. (1994). Long-term memory verses perceptual priming: Event-related brain potential evidence for two separate systems. *Psychophysiology*, 31, Supplement 1, S88.

Schnyer, D.M., and Allen, J.J. (1993). Attention-related electroencephalographic predictors of responsiveness to hypnotic suggestion. *Psychophysiology*, 30, Supplement 1, S58.

Reinke, K.S., Ryan, L., Fuglevand, A., Johnson, J., Trouard, T., Schnyer, D., & DeWeerd, P. (2000). Activation of motor areas during bimanual finger tapping: An fMRI study. *Neuroimage*, 11(5), S396.

Ryan, L., Nadel, L., Keil, T., Putnam, K., Schnyer, D., Trouard, T., Moscovitch, M. (2000). Hippocampal activation during retrieval of remote memories. *Neuroimage*, 11(5), S396.

Ryan, L., Trouard, T., & Schnyer, D.M. (1998). A functional magnetic resonance study of visual format-specific word priming. *Journal of Cognitive Neuroscience, Supplement*, S37.

## **PRESENTATIONS:**

### **Invited Colloquia:**

Schnyer, D.M. Priming - Been There, Done That! What New Can a 15000 Gauss Magnetic Field Tell Us? Presented as part of the *Cognitive Science Colloquium Series*, Tucson, Arizona, March, 2000.

Schnyer, D.M. Functional Brain Imaging Studies of Implicit Memory. Presented at the Brigham & Women's Behavioral Neuroscience Seminar Series, Boston, April, 2001.

Schnyer, D.M. Peering into the brain: A century of neuroimaging and its promise for the future. Presented as the annual Laird Cermak Memorial Lecture to the Massachusetts Neuropsychological Society, Boston, May, 2001.

Schnyer, D.M. Can I retrieve that memory or not? Frontal contributions to distinct metamemorial monitoring and evaluation processes. University of Massachusetts Amherst, Department of Psychology – Cognitive Brown Bag, July 2005.

Schnyer, D.M. Frontal contributions to learning and memory: From decision learning to decisions about learning. University of Texas, Austin – Dec. 2005.

Schnyer, D.M. Frontal contributions to learning and memory: From decision learning to decisions about learning. State University of New York, Stony Brook – Dec. 2005.

Schnyer, D.M. Decisions about learning - Frontal contributions to distinct metamemory processes. UCLA, Department of Psychology, Los Angeles – May 2006.

Schnyer, D.M. Knowing about Remembering: Frontal Contributions to Distinct Metamemory Processes. Ground Rounds, Neurology and Rehabilitation, St David's Hospital, Austin, Texas, July 2007.

Schnyer, D.M. Integrative decision making after total sleep deprivation: what happens when the brain can't adapt?. Psychology Grand Rounds, Boston VA Medical Center, Boston, MA. Dec. 2007.

Schnyer, D.M. Integrative decision making after total sleep deprivation: what happens when the brain can't adapt?. Neuroscience Seminar Series, Texas A&M, College Station, TX, Jan 2008.

Schnyer, D.M. Brain mechanisms associated with decision making and cognitive control, their vulnerability to sleep deprivation and their contribution to mental health. Wellesley College, Wellesley, MA. Nov 2008.

Schnyer, D.M. Cognitive and Affective Effects of Soldier Resilience Training - A Field Study. West Point Military Academy, West Point, NY. Jan 2011.

Schnyer, D.M. Sleep Deprivation. University of Arizona, Tucson, AZ Oct. 2011.

Schnyer, D.M. The role of attention in cognitive control: individual differences and plasticity. University of Arizona, Department colloquium series, Tucson, AZ, Jan 2014.

Schnyer, D.M. The role of attention in cognitive control: Diagnostics and treatment in TBI. Vanderbilt University, NiCoE meeting. Nashville, TN, Aug 2014.

Schnyer, D.M. Real-Time fMRI Neurofeedback for Treatment of Psychiatric Disorders. Austin, TX, 10<sup>th</sup> Annual Meeting of the American Society of Functional Neuroradiology, Feb 2016.

Schnyer, D.M. Attention control in mental illness: neural systems, vulnerability and treatment. Mount Holyoke, April 2016.

Schnyer, D.M. Attention control in mental illness: neural systems, vulnerability and treatment. Boston VA Healthcare System, May 2016

Schnyer, D.M. Attention control in mental illness: neural systems, vulnerability and treatment. Brain Health, June 2016.

Schnyer, D.M. Attention control in mental illness: neural systems, vulnerability and treatment. UMass Amherst, April 2017.

Schnyer, D.M. Prediction versus Explanation in Neuroimaging Research. ARMADILLO Conference, Texas A&M, Oct 2017.

Schnyer, D.M. Attention control in mental illness: Neurocognitive systems, vulnerability and treatment. Washington University, St Louis, Oct 2017.

### **Conference Talks (selected):**

Schnyer, D.M., Allen, J.J., and Forster, K.I. Long-term memory versus perceptual priming: Event-related brain potential evidence for two separate systems. Presented in a paper session titled: Localizing cognitive functions in the brain at the annual convention of the *Society for Psychophysiology Research*, Atlanta, October, 1994.

Schnyer, D.M., Allen, J.J., and Forster, K.I. Event-related brain potentials as indicators of memory strength for words encoded with and those encoded without awareness. Presented as part of the *Cognitive Science Colloquium Series*, Tucson, Arizona, February, 1994.



Schnyer, D.M., Kaszniak, A.W., Allen, J.J.B., and Trujillo, L. Attentional changes in long-term meditators: A cognitive neuroscience perspective. Presented in a plenary session titled: Meditation and consciousness at *Toward a Science of Consciousness*, Tucson, April, 2000.

Schnyer, D.M., Verfaellie, M., LaFleche, G., Pannu, J.K., & Kaszniak, A.W. Localizing judgments of memory ability in the prefrontal cortex: Evidence from patients with frontal lesions. Presented at the symposium entitled - Awareness and anosognosia in normal and pathological aging. 31<sup>st</sup> Annual meeting of the International Neuropsychological Society, Honolulu, February, 2003.

Schnyer, D.M. Knowing about remembering: Frontal contributions to distinct metamemory processes. MGH-NMR/Martinos Center Brain Map Seminar, October 2003.

Schnyer, D.M. Knowing about remembering: Frontal contributions to distinct metamemory processes. Presented at the Brigham & Women's Behavioral Neuroscience Seminar Series, Boston, May, 2004.

Schnyer, D.M., Dobbins, I.G., Nicholls, L., Schacter, D., & Verfaellie, M. Rapid decision learning alters the repetition-related N400 component in left frontal cortex: Evidence from MEG recordings during repetition priming. Presented at the annual meeting of the Society for Neuroscience, Washington, D.C. 2005.

Schnyer, D.M. What is Priming? Symposium Session, Rik Henson chair at the Annual meeting of the Memory Disorders Research Society, Cambridge England, Sept 2007.

Schnyer, D.M. Decision Making Under Conditions of Sleep Deprivation: Cognitive and Neural Consequences. Sustaining Performance Under Stress Symposium, Austin, TX, Dec 2007.

Schnyer, D.M. Structural brain differences that contribute to cognitive vulnerability to sleep deprivation. Sustaining Performance Under Stress Symposium II, University of Maryland, College Park, MD, March 2009.

Schnyer, D.M. Genetics influences on cognitive control: Implications for memory. Annual meeting of the Memory Disorders Research Society, Northwestern University, Oct. 2010.

Schnyer, D.M. Expectations about memory modulate the event-related potential old/new effect. Annual meeting of the Memory Disorders Research Society, University of California, Davis, Sept. 2012.

Schnyer, D.M. Sleep, memory and aging: Got rhythm? Annual meeting of the Memory Disorders Research Society, University of Texas, Austin, Sept. 2014.

### **Conference Posters – First or Senior author presentations and not published abstracts:**

Schnyer, D.M., Allen, J.J., and Forster, K.I. Event-related brain potentials as indicators of memory strength for words encoded with and those encoded without awareness. Presented at the annual convention of the International Neuropsychological Society, Cincinnati, Ohio, February, 1994.

Schnyer, D.M., Allen, J.J., and Forster, K.I. An event-related brain potential examination of priming in words presented without awareness. Presented at the first annual convention of the Cognitive Neuroscience Society, San Francisco, March, 1994.

Schnyer, D.M., Allen, J.J., and Kaszniak, A.W. Using ERPs to examine masked and repetition priming in elderly subjects. Presented at the third annual meeting of the Cognitive Neuroscience Society, San Francisco, March, 1996.

Schnyer, D.M., Allen, J.J., and Kaszniak, A.W. Examining masked and repetition priming in elderly subjects using event-related brain potentials. Presented at the Robert S. Flinn Foundation Biomedical Research Enrichment Initiative Symposium, Scottsdale, Arizona, May 1996.

Schnyer, D.M., Allen, J.J.B., Kaszniak, A.W., Alexander, T.S., and Peterson, B.A. ERPs suggest a dissociation of implicit priming effects in Alzheimer's disease. Presented at the fourth annual meeting of the Cognitive Neuroscience Society, Boston, March, 1997.

Schnyer, D.M., Allen, J.J., and Kaszniak, A.W. An ERP Examination of Masked and Unmasked Repetition Priming in Alzheimer's Disease: Implications for Theories of Implicit Memory. Presented at the Robert S. Flinn Foundation Biomedical Research Enrichment Initiative Symposium, Tucson, Arizona, May 1997.

Schnyer, D.M., Allen, J.J., and Kaszniak, A.W. Using instantaneous frequency analysis to examine task related frequency changes in the EEG of patients with Alzheimer's disease during cognitive tasks. Presented at the 1998 meeting of the Arizona Chapter of the Society for Neuroscience, Phoenix, Arizona, January 1998.

Schnyer, D.M., A.W. Kaszniak, J.J.B. Allen, & Trujillo, L.T. (1999). Assessing Attentional Changes in Long-term Mindfulness Meditators Using a Cued Attention Task and Event-related Brain Potentials. Presented at the annual conference of the Association for the Scientific Study of Consciousness in London Ontario, June 1999.

Schnyer, D.M., Ryan, L.T., & Trouard, T.P. (1999). Using functional magnetic resonance imaging to examine word priming in the human brain. Presented at The Flinn Foundation and The Arizona Disease Control Research Commissions Symposium on Building Competitive Research Careers. Tucson, Arizona, Sept.1999.

Schnyer, D., Ryan, L., Trouard, T., & Moscovitch, M. (2000). Is Right Frontal Activation Related to Retrieval Mode or Post-retrieval Monitoring and Evaluation? A New Methodology Using Event Related fMRI. Presented at the annual meeting of the Organization for Human Brain Mapping, San Antonio, Texas.

Schnyer, D. Ryan, L., & Trouard, T. (2000). An Event-Related fMRI Examination of Format Specific Word Priming. Presented at the annual meeting of the Organization for Human Brain Mapping, San Antonio, Texas.

Schnyer, D.M., & Verfaellie, M. (2002). Repetition priming effects associated with short term spreading activation corresponds to increases in fMRI signal: Using fMRI to dissociate short and long term components in priming. Presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco.

Schnyer, D.M., Nicholls, L.D., Verfaellie, M., Schacter, D.L. & Dobbins, I.G. (2003). Inflexibility of visual object priming as a function of increasing exposures. Presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.

Schnyer, D.M., Dobbins, I.G., Nicholls, L.D., Schacter, D.L., & Verfaellie, M. (2004). Rapid response learning in amnesia: Delineating associative learning components in repetition priming. Presented at the annual meeting of the Society for Neuroscience, San Diego.

Schnyer, D.M., Davis, S., Ell, Shawn, Maddox, W.T., & Verfaellie. (2006). Impaired category learning in patients with damage to prefrontal cortex. Presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.

Marsolek, C.J., Ketz, N.A., Ramanathan, P., Deason, R.G., Davis, S., Verfaellie, M., Schnyer, D.M. (2007). Neural priming effects in fMRI: Integrated fMRI and neurocomputational evidence for what may be reflected. Presented at the annual meeting of the Organization for Human Brain Mapping. Chicago, IL, June 2007.

Schnyer, D.M, deBettencourt, M.T., Beavers, C.G., Sherman, S., Cohen, J.D., Norman, K.A. & Turk-Browne, N.B. (2014) Development of real-time fMRI neurofeedback attention training for depression. Presented at the annual meeting of the Society for Neuroscience, Washington, D.C.

Schnyer, D.M, Clasen, P.C., Gonzalez, C. & Beavers, C. G. (2015). Multivariate classification algorithm effectively identifies individuals with MDD using whole brain white matter microstructure calculated from diffusion tensor MRI. Presented at the annual meeting of the Society for Neuroscience, Chicago, Ill.

Pisner, D. Beavers, C.G., & Schnyer, D.M. (2017). Resting-state functional connectivity of the Cognitive Control Network in Major Depressive Disorder. Presented at the annual meeting of the Organization for Human Brain Mapping, Vancouver, Canada.

Gonzalez, G. & Schnyer, D.M. (2017). Effects of Racial Bias on Working Memory During Competition for Attention: An ERP Study. Presented at the annual meeting of the Organization for Human Brain Mapping, Vancouver, Canada.

## **EDITORIAL/REVIEW ACTIVITIES:**

**Review Editor** – Frontiers in Neuroscience

**Journal Ad Hoc Reviewer** – NeuroImage, Psychophysiology, Biological Psychology, Human Brain Mapping, Current Biology, Cerebral Cortex, Journal of Cognitive Neuroscience, Brain and Cognition, Neuropsychologia, Brain Research, Journal of Neurophysiology, Perception and Psychophysics, Memory, Journal of Experimental Psychology: Learning, Memory and Cognition, Cognitive Science, Trends in Cognitive Science, Neuroscience, Journal of Neuroscience, Hippocampus, Strategic Management, Cognitive, Affective & Behavioral Neuroscience, Cortex, Neuropsychology, Cognitive and Behavioral Neurology, European Journal of Neuroscience, Clinical Psychology: Science and Practice, Aging Neuropsychology and Cognition, Cognitive Neuroscience, Emotion, International Journal of Psychology, Psychonomic Bulletin & Review, Journal of Neurotrauma, Current Biology, Journal of the International Neuropsychological Society, Neurobiology of Aging, Proceedings of the National Academy of Sciences, Sleep.

**Book Review** – MIT Press, Elsevier Press

**Grant Reviewer** –

National Science Foundation (NSF), 2010, 2017.

VA Merit Review, BU Alzheimer's Disease Research Center Pilot Grant Program, 2005

Israeli Science Foundation, Militarily Relevant Peer Reviewed Alzheimer's Disease Research Program, 2007

CDMRP Joint Program Committee 6 Traumatic Brain Injury Neurotrauma Imaging In-Progress Review, 2011

National Institutes of Health

1. ZRG1 ETTN-C (10) B Small Business: Clinical Neurophysiology, Devices, Neuroprosthetics, and Biosensors. National Institutes of Health, 2015, 2016, 2017
2. ZRG1 BBBP-J (03) M: Stress and Psychopathology, 2017
3. APDA Adult Psychopathology and Disorders of Aging Study Section, 2018

## **TEACHING EXPERIENCE:**

### **University of Texas at Austin**

Undergraduate Courses –

Psychology 332D - Introduction to Brain Imaging in Psychology, Undergraduate writing component course focused on a survey of brain imaging methods used in Psychology (F2014, F2015, F2016, F2017).

Psychology 341K – Introduction to Brain Imaging in Psychology, Undergraduate writing component course focused on a survey of brain imaging methods used in Psychology (F2006, F2007, F2008, F2009, F2010, S2012, F2012, Sum2013, F2013)

Graduate Courses –

Psychology PSY 387S Principles of Cognitive Neuroscience – Seminar style course providing an overview of Cognitive Neuroscience. (S2014, S2015, S2017)

Psychology 394U – Introduction to Psychophysiology – Lecture and Lab course focused on introducing students to Psychophysiological methods as they are used in Psychology research. (S2010, S2011, S2016)

Psychology 387R Fundamentals of Cognition – Lecture course providing an overview of the domains of cognitive psychology – both how they are thought about as well as how they are currently being studied. (S2010, S2011, S2012, S2013)

Psychology 394U – Analysis of Functional MRI – Lecture and Lab course focused on introducing students to the design, analysis and interpretation of fMRI studies. (S2007, S2008, S2009)

Psychology 394U – Cognition and Perception Seminar – Current topics in Cognition and Perception. (F2007, SP2013, S2014)

Neuroscience 383T - Principles II – Current topics in Neuroscience (S2009)

Special Seminar Series -

Matlab summer camp (SU2008) – One week course introducing students to the use of Matlab in scientific computing.

Invited Lectures:

Cognitive Science 380 – Guest lecture (F2006, S2007, S2012, S2014, S2017, S2018)  
Psychology 394U - Fundamentals of MRI – Lectures on fMRI design and analysis (SP2007,F07, F2012, F2013)

Psychology 394U - Fundamentals of MRI – Lecture on Introduction to EEG and MEG (SP2007,SP2008)

Neuroscience 383T - Principles of Neuroscience II – Introduction to Cognitive Neuroscience lectures (SP2007)

Neuroscience 482T - Principles of Neuroscience I – Memory Systems (F2009)

Neuroscience 385L – Foundations of Neuroimaging – 2 lectures on Human EEG and source localization methods (S2008)

Introduction to Cognitive Science – Introduction to Cognitive Neuroscience (S2008, S2010, S2012)

**Boston University, Boston, MA**

Instructor:

Graduate Course Invited Lectures –

Functional Neuroanatomy in Neuropsychology. Functional Brain Imaging section (2004)

Individual Instruction:

Neuroimaging analysis training for over one dozen students and research assistants.

**University of Arizona, Tucson, AZ**

Instructor

Graduate Courses –

Introduction to fMRI experimental design and analysis: Seminar Series for the Cognition and Neuroimaging Laboratories

Advanced topics in functional imaging

Practicum Supervisor – Neuropsychology practicum, Memory Disorders

Undergraduate Courses -

Instructor for undergraduate course in Abnormal Psychology (1997)

Lecturer – Human Memory, Consciousness, and Brain & Behavior

## Graduate teaching assistantships

1992-96 Teaching Assistant - Statistics, Abnormal Psychology, Psychophysiology Lab, Psychology of Consciousness

## **Santiago Chile**

1988-89 Conversational English at the Insituto International

## **MENTORING:**

### Doctoral Students Supervised

Derek Pisner, , Co-mentored with Chris Beevers

Guadalupe Gonzalez, Fall 2015 – present

Nicholas Griffin, Fall 2014 to present

Emily Viehman, Fall 2013 to present

Stephanie Sherman, Fall 2012 to present

Jenni Pacheco, Fall 2007 to 2011(graduated with PhD)

Lindsey Dickey, Spring 2010 to Fall 2010

Emily Knight, Fall 2010 to May 2013 (graduated with MA)

Peter Clasec, Co-mentored with Chris Beevers (primary – graduated with PhD)

### Fellowship Sponser

NRSA – Co-mentor - F31 AA017022-01A1 (Awarded July 2008). Reagan Wetherhill, The etiology of fragmentary blackouts: Memory processes and neural activations.

NIMH – Co-mentor - F31 MH092959-01A1 (Awarded July 2011). Peter Clasen, Cognitive Control of Emotional Information in Major Depressive

### Dissertation Committee Member

Alex Birdsill (Psychology, UT)

Bryan Barksdale (Neuroscience, UT)

Adam Cobb (Psychology, UT)

Kirsten Smayda (Psychology, UT) - 2017

Chia-Ling Li (Neuroscience, UT) – 2017

Nate Blanco (Psychology, UT) - 2016

Jessica Cooper (Psychology, UT) – 2016

Sonya Kaur (Psychology, UT) - 2014

Meg Schlichting (Psychology, UT) – 2014

Seth Disner (Psychology, UT) - 2014

Mitzi Gonzales (Psychology, UT) - 2014

Jackson Liang (Institute for Neuroscience, UT)

Crystal Lantrip (School of Social Work, UT)

Danielle Eagan (Psychology, UT)

Peter Clasen (Psychology, UT)

So-Hee Kim (Linguistics, UT)

Jamil Palacios (Psychology, UT)

Emily Luther (Psychology, UT)

Rachel Berman (Psychology, UT)

Brian Glass (Psychology, UT)  
Sasha Wolosin (Psychology, UT)  
Rajani Sebastian (Communication Studies, UT)  
S.C. Huang (School of Information, UT)  
Micah Goldberg (Psychology, UT) - 2009  
Reagan Wetherhill (Psychology, UT)  
Frank Puga, (Psychology, UT) - 2009  
Lisa Grimm, (Psychology, UT) – 2007  
Tyler Davis, (Psychology, UT) - 2010

#### Qualifying Exams

Katy Seloff (Institute for Neuroscience, UT)  
Bryan Barksdale (Institute for Neuroscience, UT)  
Beth Belle (Institute for Neuroscience, UT)  
Christel Bastida (Institute for Neuroscience, UT)  
S.C. Huang (School of Information, UT)  
Jackson Liang (Institute for Neuroscience, UT)

#### Masters Committee Member

Jessica Jankowitsch (Psychology, UT)  
Marianna Eddy, (Psychology, Tufts)

#### Undergraduate Honors Mentor

UTexas - Natalie Dailey, Emily Emerich, Caitlin Tenison, Daniel Grafton, Sadie Witkowski, Katherine Soon, Dennis Walters, Ryan Hammonds

#### Undergraduate Research Supervisor

UTexas - Joesph Carlin, Katie Chen, Natalie Dailey, Victoria Williams, Caitlin Tenison, Emily Emerich, Jodi Zik, Lauren Fanty, Catherine Faig, Sara Dholakia, Yelena Kulik, Sadie Witkowski, Amulya Aradhyula, Annabel Reeves, Kevin Nat, Henan, Yasmine Jassal, Kayli Kallina, Evan Alvarez-Keese, Christopher Gonzolez, Kevin Nat, Aston Wallin

### **SERVICE:**

#### **National/International**

2016 Member of the Communications Committee, Social media subcommittee,  
Organization for Human Brain Mapping  
2011 External Academic Program Review Committee, University of  
Arizona

#### **University of Texas, Austin**

2006-2007 Institute for Neuroscience – Task force to develop an undergraduate major in  
Neuroscience, member  
2007-present Graduate Specialization in NeuroImaging Education coordinator  
2007-2012 Member of Institutional Review Board for Human Subjects Research  
2006-07 Member of the faculty search committee for associate professor hire in  
BioMedical Engineering to be one of the core faculty associated with the IRC  
2009 Department Chair assessment committee

2008-09 Member IRC Director Search Committee – search for internationally prominent Director for the imaging research center

2009 Chris Beevers Tenure committee member, research profile

2010 Third year review committee (Andreanna Haley) – neuroimaging specialist

2011 Co-chair, Department 10-year planning committee

2011 IRC faculty search committee

2011 College of Undergraduate Studies, Ethics Flag planning committee

2012 Tenure committee, Alison Preston – Research evaluation

2012 IRC open rank faculty search committee

2012 Faculty Merit Review

2012-13 Institute for Mental Health Research, open rank faculty search committee

2013 Committee to formulate new faculty evaluation guidelines

2013 Co-Head, Cognitive Systems Area

2013 Andreana Haley Tenure committee member, research profile

2013 Faculty Merit Review Committee

2014 Local organizing committee for the annual conference of the Memory Disorder Research Society

2014 COLA New Fellows Graduate Fellowship selection Committee

2014-15 Dell Medical School, Chair of Psychiatry search advisory committee

2015 Co-op Best Paper Research Award Committee Member

2015-2016 Elected member of The Faculty Council

2015-16 IMHR faculty recruitment committee

2016 Imaging Research Center, Associate Director recruitment committee

2015-18 Social media team leader, OHBM Communications committee

2017 Faculty Merit Review Committee

2017-18 Psychology/Psychiatry FII search committee member

2016-17 Bridging Barriers Organizing Committee Member - A Better and Longer Life Experience

2017 Bridging Barriers Steering Committee Member - CENTRAL

## **CLINICAL EXPERIENCE:**

2000-05 Monthly patient rounds. Memory Disorders Research Center.

1997-98 Clinical Intern, APA clinical internship with specialization in Neuropsychology University Medical Center, Tucson, AZ

1994-97 Neuropsychological Assessment as part of the assessment team for the Memory Disorders Clinic at the University Medical Center, Tucson Arizona

1994-95 Psychotherapist, Marana Health Center: therapy with adults, children, and families, adult SMI case management

1993-94 Psychotherapist, University of Arizona Psychology Clinic: Cognitive- Behavioral Therapy with young adults and couples

1992-93 Volunteer Intake Counselor, Southern Arizona Mental Health Center, Crisis intake and evaluation

## **REFERENCES:**

Russell Poldrack, PhD., poldrack@stanford.edu  
 Professor, Department of Psychology  
 Stanford University  
 Jordan Hall, Building 420 450



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Mieke Verfaellie, Ph.D., [verf@bu.edu](mailto:verf@bu.edu)  
Director, Memory Disorders Research Center  
Boston VA Medical Center

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Department of Psychology  
Harvard University  
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Director of the Institute for Mental Health Research  
The University of Texas at Austin  
Austin, TX 78712