

**CURRICULUM VITAE****John J.B. Allen****Personal Information:**

Distinguished Professor of Clinical Psychology,  
Cognitive Science, and Neuroscience  
Department of Psychology  
University of Arizona  
Tucson, AZ 85721

Phone: (520) 621-4992  
E-Mail: JOHN.JB.ALLEN@ARIZONA.EDU  
WWW: jallen.faculty.arizona.edu

**Education and Licensure:**

1993 Licensed Psychologist in the State of Arizona (License #2055)  
1992 University of Minnesota, Doctor of Philosophy, Clinical Psychology with specialization in  
Psychophysiology and Biological Measurement  
1991 University of Minnesota, Master of Arts, Psychology  
1986 University of Wisconsin-Madison, Bachelor of Science with Distinction, Psychology

**Chronology of Employment:**

2006-present Distinguished Professor of Psychology, University of Arizona  
2002-2006 Professor of Psychology, University of Arizona  
1998-2002 Associate Professor of Psychology, University of Arizona  
1992-1998 Assistant Professor of Psychology, University of Arizona  
1991-1992 Intern, Psychology Service, VA Medical Center, Minneapolis, MN  
1990-1991 Doctoral Dissertation Fellow, University of Minnesota Graduate School  
1989-1992 Instructor, Association for Advanced Training in the Behavioral Sciences  
1988-1992 Instructor, University of Minnesota, Department of Psychology  
1988-1990 National Institute of Mental Health Research Traineeship Fellow  
1988 Consultant, Minnesota Twin Family study  
1987-1988 Research Assistant for Professor William G. Iacono, University of Minnesota  
1986-1987 Graduate School Fellow, University of Minnesota  
1984-1986 Research Assistant for Professor Loren J. Chapman, University of Wisconsin-  
Madison  
1977-1983 Manager, McDonald's Corporation

**Honors Societies and Honors:**

Alexander von Humboldt Foundation Forschungspreis (2016); Distinguished Professor, University of Arizona (2006); Fellow, Association for Psychological Science (2005); Graduate College and Professional Education Teaching and Mentoring Award (2005); Special Award for Distinguished Service as the Chair of the Committee to Promote Student Interests, Society for Psychophysiological Research (2004); Leicester & Kathryn Sherrill Creative Teaching Award, University of Arizona (2004); Distinguished Contribution to Research from the Arizona Psychological Association (2001); Distinguished Scientific Award for an Early Career Contribution to Psychophysiology (2000); University of Arizona Graduate College Graduate Teaching and Mentoring Award (Honorable Mention; 2000); Who's Who Among America's Teachers (1998, 2002, 2005); Sigma Xi (1989); Phi Beta Kappa (1986); Phi Kappa Phi (1985); Psi Chi (1984); De Pauw Undergraduate Honors Research Symposium (1985); National Honor Society President (1978-1979)

**Professional Societies:**

The Society for Psychophysiological Research (President 2008-2009)  
 Association for Psychological Science, Fellow  
 Southern Arizona Psychological Association

**Publications:**

- Allen, J.J. (1986). A developmental approach to self-monitoring behavior. *Communication Monographs*, 53, 277-288.
- Allen, J.J., Chapman, L.J., & Chapman, J.C. (1987). Cognitive slippage and depression in hypothetically psychosis-prone college students. *Journal of Nervous and Mental Disease*, 175, 347-353.
- Allen, J.J., Chapman, L.J., Chapman, J.C., Vuchetich, J.P., & Frost, L.A. (1987). The prediction of psychotic-like symptoms in hypothetically psychosis-prone college students. *Journal of Abnormal Psychology*, 96, 83-88.
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- Allen, J.J., Iacono, W.G., Depue, R.A., & Arbisi, P. (1993). Regional electroencephalographic asymmetries in bipolar seasonal affective disorder before and after exposure to bright light. *Biological Psychiatry*, 33, 642-646..
- Schnyer, D.M., & Allen, J.J. (1995). Attention-related Electroencephalographic and Event-related Potential Predictors of Responsiveness to Suggested Posthypnotic Amnesia. *International Journal of Clinical and Experimental Hypnosis*, 43, 295-315.
- Allen, J.J., Iacono, W.G., Laravuso, J.J., & Dunn, L.A. (1995). An Event-related Potential investigation of posthypnotic recognition amnesia. *Journal of Abnormal Psychology*, 104, 421-430.
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- Allen, J.J.B., Law, H., & Laravuso, J.J. (1996). Items for assessing posthypnotic recognition amnesia with the HGSHS:A and the SHSS:C. *International Journal of Clinical and Experimental Hypnosis*, 44, 52-65.
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- Harmon-Jones, E., & Allen, J.J.B. (1997). Behavioral activation sensitivity and resting frontal EEG asymmetry: Covariation of putative indicators related to risk for mood disorders. *Journal of Abnormal Psychology*, 106, 159-163.
- Allen, J.J.B. & Iacono, W.G. (1997). A comparison of methods for the analysis of event-related potentials in deception-detection. *Psychophysiology*, 34, 234-240.
- 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.
- Allen, J.J.B., & Schnyer, R.N. (1998). Depression and acupuncture. In: E.A. Blechman and K.D. Brownell (Eds.), *Behavioral Medicine for Women: A comprehensive Handbook*, (pp. 764-769). New York: Guilford Press.

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- Reprinted as:
- Allen, J.J.B. (2001). DSM-IV. In H.Friedman (Ed.), *The Disorders: Specialty Articles from the Encyclopedia of Mental Health* (pp.209-221), San Diego: Academic Press. (Reprinted chapter that first appeared in 1998 in the *Encyclopedia of Mental Health*, pp. 29-41)
- Allen, J.J.B. (2001). DSM-IV. In H.Friedman (Ed.), *Assessmen and Therapy: Specialty Articles from the Encyclopedia of Mental Health* (pp.189-201), San Diego: Academic Press. (Reprinted chapter that first appeared in 1998 in the *Encyclopedia of Mental Health*, pp. 29-41)
- Wyatt, J. K., Bootzin, R. R., Allen, J.J.B., & Anthony, J. L. (1997). Mesograde amnesia during the sleep onset transition: replication and spectral correlates. *Sleep*, 20, 512-522.
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- Coan, J.A., Allen, J.J.B., & McKnight, P.E. (2006). A capability model of individual differences in frontal EEG asymmetry. *Biological Psychology*, *72*, 198-207. PMID: PMC2835626
- Allen, J.J.B., Schnyer, R.N., Chambers, A.S., Hitt, S.K., Moreno, F.A., & Manber, R. (2006). Acupuncture for Depression: A Controlled Trial. *The Journal of Clinical Psychiatry*, *67*, 1665-1673. PMID: 1719604
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- Kromenacker, B.W., Sanova, A.A., Marcus, F.I., Allen, J.J.B., & Lane, R.D. *Low Frequency Heart Rate Variability During Slow Yoga Breathing Is Vagally-Mediated.*
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- Stewart, J.L., & Allen, J.J.B. *Resting frontal brain asymmetry is linked to future depressive symptoms in women.*
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- Medrano, M.R., Smith, E.E., Casillas, M., & Allen, J.J.B. (2014). Implicit prejudices: brain electrical activity responds to stereotype incongruence. *Psychophysiology*, *51*, S42.
- Reznik, S.J., Zambrano-Vazquez, Medrano, M., & Allen, J.J.B. (2015). Racing minds, racing hearts: The interaction of state and trait anxiety on respiratory sinus arrhythmia (RSA). *Psychophysiology*, *52*, S51
- Zambrano-Vazquez, Ziebell, P., Bowles, A.E., McGarrh, D.A., & Allen, J.J.B. (2015). The interaction between trait and state worry on the ERN during a worry induction task. *Psychophysiology*, *52*, S35.
- Wiley, J. F., Weihs, K. L., Crespi, C. M., Krull, J. L., Allen, J. J.B., & Stanton, A. L. (2016). Intraindividual variability in cancer-related avoidance coping predicts depressive symptoms. Presented at the Annual Meeting of the American Psychosomatic Society., Denver, CO.
- Goldstein, M.R., Lewin, R.K. Bailey, E.F., & Allen, J.J.B. (2016). Effects of preceding sleep on physiological responses to a laboratory stress induction. *Sleep*.
- Curham, K.J., & Allen, J.J.B. (2016). Multivariate phase covariance analysis: A new approach to revealing functional connectivity in eeg time-series. *Psychophysiology*, *53*, S64.
- Vanuk, J.R., Allen, J.J.B., & Killgore, W.D.S. (2016). Heart rate variability during light exposure and subsequent network connectivity patterns. *Psychophysiology*, *53*, S53.
- Sanguinetti, J.L., Smith, E., Goldstein, M.R., Tyler, W.J., Hameroff, S., & Allen, J.J.B. (2016). Transcranial ultrasound (TUS) effects on mood, vigor, and non-attachment.
- Do Carmo Blanco, N., Jozefowicz, J., & Allen, J.J.B. (2016). Selective attentional bias to explicitly and implicitly predictable outcomes. *Psychophysiology*, *53*, S76.
- Curham, K.J., & Allen, J.J.B. (2017). Identifying State-dependent Modulations In Functional Connectivity: A Group Theoretic Baseline-Correction. *Psychophysiology*, *54*, S138.
- Dieckman, L.W., & Allen, J.J.B. (2017). Support Vector Machine Prediction of Blended Emotional Reactions to Film: Continuous Self-Report, Face and Neck EMG. *Psychophysiology*, *54*, S155.
- Ding, Y., & Allen, J.J.B. (2017). Within-subjects Modulation of EEG Alpha Activity by Cardiac Vagal Control. *Psychophysiology*, *54*, S60.
- Goldstein, M.R., Lewin, R.K., Bailey, E.F., & Allen, J.J.B. (2017). Alterations in stress physiology following yogic breathing and cognitively based psychosocial workshops for college students: A randomized controlled trial. *Psychophysiology*, *54*, S114.
- Smith, E.E., Cohen, M.X., & Allen, J.J.B. (2017). Guided source separation for phase-amplitude coupling using generalized eigendecomposition (GEDCFC) in a sample of contact-collision athletes. *Psychophysiology*, *54*, S93.

### **Selected Invited Addresses, and Selected Conference and Meeting Presentations not appearing as Published Abstracts:**

- Allen, J.J. *A Developmental Approach to Self-Monitoring Behavior*. Presented at the annual convention of the Speech Communication Association, Denver, Colorado, November, 1985. (Received Top Student Paper designation)
- Allen, J.J. *A Controlled Acupuncture Treatment Study for Depression in Women*. Invited presentation at the National Institutes of Health Office of Alternative Medicine FY93 Awardee's Conference, Rockville, MD, March, 1994.

- Allen, J.J. *EEG Asymmetry as a Risk Indicator for Depression*. Presented at the 4th annual Psychopharmacology Review, sponsored by the University of Arizona College of Medicine Department of Psychiatry, Tucson, Arizona, February, 1995.
- Allen, J.J. *Methods for Obtaining Statistically-Supported Classifications for Individual Subjects on the Basis of Event-Related Potential Data*. Invited address presented at the Workshop on Advancements in the Field of Electrophysiology, sponsored by Neuroscan, 31 March - 1 April, 1995, Mexico City.
- Allen, J.J.B. *Preliminary Findings on the Efficacy of Acupuncture as a Treatment for Unipolar Depression*. Invited address at the meeting of the Drug Information Association (DIA), Orlando, Florida, June, 1995.
- Allen, J.J.B. *Event-related Potentials in Posthypnotic Amnesia: Methodology for Making Statistically-Supported Assessments of Individual Subjects*. Invited address, Tilburg University, Tilburg, The Netherlands, September, 1995.
- Allen, J.J.B. *Assessing Deception in Practice and in the Laboratory*. Invited presentation at the Southern Arizona Psychological Association "Back to School II" continuing education seminar, Tucson, Arizona, January, 1996.
- Allen, J.J.B. *Assessing Memory and Deception: Brain Potentials and Individual Differences*. Invited colloquium, University of San Diego, April, 1996.
- Allen, J.J.B. Hitt, S.K., & Schnyer, R.N. *Getting the Point: Acupuncture Appears to Have Efficacy in the Treatment of Major Depression, Beyond Nonspecific Effects*. Presented as a paper at the annual meeting of the North American Chapter of the SPR, Tucson, AZ, December, 1997.
- Allen, J.J.B. *Acupuncture in the Treatment of Depression*. Invited address, Southern Arizona Psychological Association (SAPA) continuing education luncheon. Tucson, October 20, 1998.
- Allen, J.J.B. *A Clinical Trial of Acupuncture in Depression*. Invited address, Alternative Medicine and Psychiatry Conference, Ottawa, Canada, November, 1998.
- Allen, J.J.B. *Acupuncture and Depression; usage trends and Empirical Evidence*. Invited presentation at Back to School III, a continuing education event sponsored jointly by the Southern Arizona Psychological Association (SAPA) and the Department of Psychology of The University of Arizona; Tucson, Arizona, January, 1999.
- Allen, J.J.B. *Acupuncture in the Treatment of Depression*. Invited address for the Pharmacology Update Conference, February 25, 1999, Tucson.
- Allen, J.J.B. *Getting the Point Acupuncture in the Treatment of Depression*. Invited address, Faculty Lecture Series, March 22, 1999, University of Arizona Health Sciences Center.
- Allen, J.J.B., Schnyer, R.N., & Hitt, S.K. *The Efficacy of Acupuncture in the Treatment of Depression*. Invited presentation at the meeting of the Western Association for Biological Psychiatry, Tucson, April, 1999.
- Allen, J.J.B. *The Efficacy of Acupuncture in the treatment of Depression*. Invited address to the Southern Arizona Mental Health Corporation, Tucson, AZ, April, 1999.
- Allen, J.J.B. *The Efficacy of Acupuncture in the treatment of Depression*. Invited submission as part of the symposium *Alternative Therapies in Depression and Anxiety*. Annual Meeting of the American Psychiatric Association, , Washington, D.C., May, 1999.
- Allen, J.J.B. *Getting the Point: Acupuncture in the treatment of Depression*. Invited Grand Rounds, Department of Psychiatry, University of Arizona, November, 1999.
- Allen, J.J.B. *Acupuncture in the Treatment of Depression*. Invited Grand Rounds, Mental Health Continuing Education Forum, Southern Arizona V.A. Health Care System, Tucson, Arizona, January, 2000.
- Allen, J.J.B. *Acupuncture in the Treatment of Depression*. Invited address for the Pharmacology Update Conference, February 24, 2000, Tucson.
- Allen, J.J.B. *Integrating the Web with Tier 1 Courses*. Presented at the Learning Technology Showcase, University of Arizona, Tucson, May 4, 2000.
- Allen, J.J.B. *Acupuncture and Depression*. Invited address to the National Depression Manic Depression Society. Boston, MA, August 13, 2000.

- Allen, J.J.B. *Socialization, Psychopathy, and Error Monitoring*. Invited presentation at “Executive Control, Errors, and the Brain” in Jena, Germany, September, 2000.
- Allen, J.J.B. *Assessing Amnesia In Dissociative Identity Disorder: The ABCs of ERPs in DID*. Invited presentation, University of Virginia Department of Psychology, September, 2000.
- Allen, J.J.B. *Acupuncture and Depression*. Invited presentation as part of the University of Arizona *Salon Series* for the public. Tucson, October, 2000.
- Allen, J.J.B. *Psychophysiology and Clinical Assessment: ERPs in the Evaluation of Memory*. Invited Address for the Distinguished Scientific Award for an Early Career Contribution to Psychophysiology, San Diego, October, 2000.
- Allen, J.J.B. *The Nature of Amnesia in Dissociative Identity Disorder: A Psychophysiological Approach*. Invited colloquium for Grand Rounds at Western State Psychiatric Hospital, Staunton, VA, February, 2001.
- Allen, J.J.B. *Getting the Point: Acupuncture in the treatment of Depression*. Invited colloquium for Grand Rounds at Western State Psychiatric Hospital, Staunton, VA, April, 2001.
- Schnyer, R.N. , Allen, J.J.B. , Manber, R. , & Hitt. S.K. (2001). *Evaluating Inter-Rater Reliability Of The Assessment Of Major Depression From The Perspective Of Chinese Medicine: Rationale, Methodological Challenges, And Preliminary Solutions*. Presented at the *International Scientific Conference on Complementary, Alternative and Integrative Medical Research*, San Francisco, CA May 17-19, 2001.
- Schnyer, R.N. , Allen, J.J.B. (2001). *Bridging The Gap In Acupuncture Research: Flexibility Of Treatment Vs. Standardization*. Presented at the *International Scientific Conference on Complementary, Alternative and Integrative Medical Research*, San Francisco, CA May 17-19, 2001.
- Manber, R, Schnyer, R.N., Chambers, A., & Allen, J.J.B. (2001). *The Effects Of Acupuncture For Depression on Sleep Disturbance*. Presented at the *International Scientific Conference on Complementary, Alternative and Integrative Medical Research*, San Francisco, CA May 17-19, 2001.
- Allen, J.J.B. *Getting the Point: Acupuncture in the treatment of Depression*. Invited colloquium Washington & Lee University, Lexington, VA, May, 2001.
- Allen, J.J.B. *The Nature of Amnesia in Dissociative Identity Disorder: A Psychophysiological Approach*. Invited colloquium for Grand Rounds at Catawba Psychiatric Hospital, Roanoke, VA, June, 2001.
- Allen, J.J.B. *The Nature of Amnesia in Dissociative Identity Disorder: The ERPs of DIDs*. Invited colloquium, Department of Psychology, University of Arizona, September, 2001.
- Allen, J.J.B. *Getting the Point: Acupuncture in the treatment of Depression*. Invited talk, University of Arizona School of Public Health, November, 2001.
- Allen, J.J.B. *The Nature of Amnesia in Dissociative Identity Disorder*. Invited presentation at Back to School, a continuing education event sponsored jointly by the Southern Arizona Psychological Association (SAPA) and the Department of Psychology of The University of Arizona; Tucson, Arizona, February, 2002.
- Allen, J.J.B. *Acupuncture in the Treatment of Depression*. Invited address for the Pharmacology Update Conference, February 19, 2002, Tucson.
- Taitano K, Schnyer R, Allen JJB, Manber R, Hitt SK: *The Psychophysiology of Yin and Yang*, International Scientific Conference on Alternative and Integrative Medicine Research. Boston, 2002
- Allen, J.J.B. *The Nature of Amnesia in Dissociative Identity Disorder: A Psychophysiological Approach*. Invited colloquium for the Department of Psychology, University of Texas, El Paso, El Paso, TX, March 2002.
- Allen, J.J.B. *Points to Consider: Challenges in Acupuncture Research in Depression*. Invited talk for the Department of Psychiatry, Depression Research Program, Massachusetts General Hospital, Harvard Medical School, Boston, MA. May 2002.
- Allen, J.J.B. *The Nature of Amnesia in Dissociative Identity Disorder: A Psychophysiological Approach*. Invited colloquium for the Department of Psychology, Northwestern University, Evanston, IL, May 2002.
- Allen, J.J.B. *The Promise and Limitations of ERPs for Assessing Deception*. Invited talk for the Invited Symposium, Meeting of the *American Psychological Society*, New Orleans, June 2002.

- Allen, J.J.B. & Mertens, R. *Can ERPs Distinguish Veridical from False Recognition in Individual Subjects?* Invited Paper at the annual meeting of the Society for Psychophysiological Research, Washington, DC, October 2002.
- Allen, J.J.B. (2003). *Brain Electrical Activity and Homeland Security: Promising Technology or Premature Hype?* Invited presentation, Neuroscience Datablitz, University of Arizona Program In Neuroscience, Tucson, AZ, January 2003.
- Allen, J.J.B. (2003). *An Alternative to Traditional Lie Detection Techniques using Brain Electrical Activity.* Invited presentation, annual meeting of the Arizona Association of Family and Conciliation Courts, Sedona, AZ, February 2003.
- O'Connor, M., Allen, J.J.B., & Kaszniak, A.W. (2003). *Bereavement Physiology and "Flight" From Intervention.* Presented at the annual meeting of the American Psychosomatic Society, Phoenix Arizona, March, 2003.
- Allen, J.J.B. (2003). *Making use of many preceptors in a class with many more students.* Presented at the Teaching Teams Mini-Conference, University of Arizona, Tucson, AZ, May, 2003.
- Allen, J.J.B., Trujillo, L., Dikman, Z.V. (2003). *The Activating Effect of Errors: A Time-Frequency Examination.* Presented at the meeting "Errors, Conflicts, and the Brain. Current Opinions on Performance Monitoring," Dortmund, Germany, July 3-5, 2003.
- Allen, J.J.B. (2003). *A New (but Cumbersome) Method for Identifying Individuals at Risk for Future Depression.* Presented at the Clinical Psychology Data Deluge, October 14, 2003, University of Arizona, Tucson, AZ.
- Allen, J.J.B. (2003). *Neurophysiology of Cognitive Abnormalities in Depression.* Discussant for the symposium at the annual meeting of the Society for Psychophysiological Research, Chicago, IL, October 2003.
- Allen, J.J.B. (2004). *Lie Detection and the Polygraph: What's the Alternative?* Invited talk to the Tucson Rotary Club, January, 2004.
- Allen, J.J.B. (2004). *Lie Detection: The Problematic Polygraph Test and Some Alternatives.* . Invited presentation at Back to School, a continuing education event sponsored jointly by the Southern Arizona Psychological Association (SAPA) and the Department of Psychology of The University of Arizona; Tucson, Arizona, January, 2004.
- Allen, J.J.B. *The Nature of Amnesia in Dissociative Identity Disorder: The ERPs of DID's.* (2004) Invited colloquium, Department of Psychology, University of Oregon, March, 2004.
- Balcomb, F.K., Gomez, R., & Allen, J.J.B. (2005). *Infant Sensitivity to Different Types of Cues Indicative of Timing and Structure in Social Play Sequences.* Presented at the 2005 Biennial Meeting of SRCD, Atlanta, Georgia, April 2005.
- Allen, J.J.B. (2005) *"Lie" Detection: The Problematic Polygraph Test and Some Potentially (less) Problematic Alternatives.* Invited Address, University of Arizona Colloquium Series, Tucson, February 2005.
- Allen, J.J.B. (2005) *"Lie" Detection: The Problematic Polygraph Test and Some Potentially (less) Problematic Alternatives.* Invited Address, University of Arizona Dean of Students Speakers Series, Tucson, April 2005.
- Allen, J.J.B. (2005) *Utilizing a Personal Response System ("Clickers") in a Very Large Class.* Invited Address, University of Arizona Learning Technology Center, Tucson, April May 2005.
- Allen, J.J.B. *Get the Point: Challenges in Acupuncture Research in Depression.* Invited talk for the Southern Arizona Acupuncture Society, Tucson, AZ, May 2005.
- Allen, J.J.B (2005) *Is "Brainfingerprinting" ready for Prime Time: Psychological Science and the Detection of Deception.* Invited address, annual meeting of the *American Psychological Society*, Los Angeles, June 2005.
- Allen, J.J.B. (2005) *"Lie" Detection: The Problematic Polygraph Test and Some Potentially (less) Problematic Alternatives.* Invited Address, Arizona Senior Academy, Academy Village, Tucson, August, 2005.
- Allen, J.J.B. (2006) *The Nature of Amnesia in Dissociative Identity Disorder: The ERPs of DID's.* Invited colloquium, Department of Psychology, Rosalind Franklin University of Medicine and Science, January, 2006.

- Allen, J.J.B. (2006). To Err is to Synchronize: Error-related Frontal Midline Theta Synchronization. Invited presentation, Neuroscience Community Data Blitz, Tucson, AZ, January, 2006.
- Allen, J.J.B. (2006). *Recognizing and Treating Depression*. Invited Address, Arizona Senior Academy, Academy Village, Tucson, February, 2006.
- Allen, J.J.B. (2006). *Alternative Strategies to assess Student Learning*, presented as an invited talk as part of the Teaching Panel Discussion for the *University Symposium on Re-Thinking our Strategies for Assessing Student Learning*; (Elizabeth Harrison, Symposium Chair)
- Allen, J.J.B. (2006) *The Nature of Amnesia in Dissociative Identity Disorder: The ERPs of DIDs*. Invited colloquium, Department of Psychology, University of Vermont, April, 2006.
- Forbes, C.E., Schmader, T., & Allen, J.J.B. *Measuring Stigma's Effects on Psychological Disengagement using Neuronal Indices of Error Monitoring*. Presented at the annual meeting of the Association for Psychological Science, New York, May 2006.
- Allen, J.J.B. (2007). *A Pragmatic Overview of Brain Scanning Technologies for the non-Neuroscientist*. Invited Address, *Law and Ethics of Brain Scanning: The Next Big Thing Coming Soon to a Courthouse Near You?* Phoenix, Arizona, April 2007.
- Allen, J.J.B. (2007) . *The Promise and Pitfalls of Using Clickers in Large Classes*. Invited Address, University of Arizona Learning Technology Center, Tucson, April May 2007.
- Harle, K. M., Sanfey, A.G., & Allen, J.J.B. *The Impact of Induced Emotion and Depression on Economic Decisions*. Presented at the *Neural Systems of Social Behavior* conference, Austin, TX., May 2007.
- Cavanagh, J., & Allen, J.J.B. *Emotional Reactivity under Social Evaluative Threat: A Social Neuroscience Investigation*. Presented at the meeting of the *Society for Personality and Social Psychology*, Memphis, TN, January 2007.
- Allen, J.J.B. (2007). *The Nature of the Resting Task in EEG Asymmetry Disorder Research*. Invited discussant, Annual meeting of the Society for Psychophysiological Research, Savannah, GA, October, 2007.
- Allen, J.J.B. (2007). *The Nature of Amnesia in Dissociative Identity Disorder: Electrophysiological and Behavioral Evidence*. Invited colloquium, Consciousness Studies Program, University of Arizona, October, 2007.
- Allen, J.J.B. (2007). Lying Liars and the Lies they Tell, Lying Liars and the Lies they Detect: Technologies Change, but the Song Remains the Same. Invited presentation, *Mind, Brain, and Society* mini-conference, Tucson, AZ, October, 2007.
- Allen, J.J.B. (2008). *EEG Asymmetry and Risk for Depression: A Brief Tale of a Skeptic's Journey*. Invited address, Swartz Center for Computational Neuroscience, University of California, San Diego, January, 2008.
- Kirsch, L.G., Becker, J.V., & Allen, J.J.B. (2008). *Do Psychopathic Individuals Really Have Empathy Deficits?: Preliminary Results From an Objective Measure of Empathy*. Presented at the 2008 AP-LS Annual Conference.
- Blank, Y., Allen, J.J.B., Bootzin, R.R., & Manber, R. (2008). *Cardiac Vagal Control, Depression, and Insomnia*. Poster presented at the Associated Professional Sleep Societies (APSS) Meeting, Baltimore, MD.
- Allen, J.J.B. (2008). *Ponderings on Belief and Mechanism*. Invited commentary on the work of Rupert Sheldrake, presented at *Toward a Science of Consciousness*, Tucson, AZ, April 2008.
- Allen, J.J.B. (2008). *The Nature of Amnesia in Dissociative Identity Disorder: The ERPs of DIDs*. Invited colloquium, Department of Psychology, University of Illinois, April, 2008.
- Allen, J.J.B. (2008). *The Nature of Amnesia in Dissociative Identity Disorder*. Invited grand rounds, Department of Psychiatry, University of Arizona, April, 2008.
- Allen, J.J.B. (2008). *Lie Detection: The Problematic Polygraph Test and Some Alternatives*. . Invited presentation for the Southern Arizona Psychological Association (SAPA) CE event, Tucson, Arizona, June, 2008.
- Allen, J.J.B. (2008). *The Role of Functional Neuroimaging in Advancing Psychological Science*. Presented at the annual meeting of the Association for Psychological Science, Chicago, May, 2008.

- Allen, J.J.B. (2009). *Frontal EEG Asymmetry as an Endophenotype for Depression: A Skeptic's Journey*. Invited colloquium, Friedrich-Schiller-Universität, Jena, Germany, October, 2009.
- Allen, J.J.B. (2009). *Frontal EEG Asymmetry as an Endophenotype for Depression: A Skeptic's Journey*. Presidential address presented at the annual meeting of the Society for Psychophysiological Research, Berlin, Germany, October, 2009.
- Allen, J.J.B. (2009). *The Self-organizing Brain: What Does the Brain Do When Scientists Aren't Bothering It, and How Might It Do It?* Invited presentation, Opinions and Discussions on Cognitive Neuroscience: Amsterdam (ODCNA), Amsterdam, The Netherlands, October, 2009.
- Allen, J.J.B. (2010). *The Nature of Amnesia in Dissociative Identity Disorder*. Invited colloquium, Department of Psychology, Texas A&M University, April, 2010.
- Allen, J.J.B. (2010). *The Nature of Amnesia in Dissociative Identity Disorder*. Invited colloquium, Department of Psychology, University of Texas, April, 2010.
- Allen, J.J.B. (2010). *Deconstructing the "resting" state: Exploring the temporal dynamics of resting frontal brain asymmetry as an endophenotype for depression*. Presented at the UA-ASU Cognitive Science Conclave, Arizona State University, Tempe, AZ, November 2010.
- Allen, J.J.B. (2011). *Acupuncture and Depression*. Invited address, Women's Mental Health Symposium, Tucson, AZ, March, 2011.
- Allen, J.J.B. (2011). *Deconstructing the "resting" state to understand self-regulation and risk for depression*. Mini-conference on Neural Systems, SocioEmotional Regulation and Health, University of Arizona, March, 2011.
- Allen, J.J.B. (2011). *The Nature of Amnesia in Dissociative Identity Disorder*. Invited salon, Spirit of the Senses Arts and Cultural Organization, Phoenix, August, 2011.
- Allen, J.J.B. (2011). *Frontal EEG Asymmetry as an Endophenotype for Depression*. Invited colloquium, Texas Tech University, El Paso, November, 2011.
- Allen, J.J.B. (2012). *Acupuncture and Depression*. Invited address, Women's Mental Health Symposium, Tucson, AZ, March, 2012.
- Allen, J.J.B. (2012). *The Nature of Amnesia in Dissociative Identity Disorder*. Invited colloquium, University of Wisconsin – Stout, Menomonie, WI, October, 2012.
- Allen, J.J.B. (2013). *No Lie! Caveats and Cautions in the use of Polygraphy*. Presented at the annual conference of the Arizona Association of Family and Conciliation Courts, Sedona, AZ, February, 2013.
- Folstein, J.R., Allen, J.J.B., & Scalf, P.E. (2013). Category learning off of fixation causes a selective perceptual advantage for relevant dimensions. *Society for Neuroscience*.
- Allen, J.J.B. (2013). *Frontal EEG Asymmetry and Depression*. Invited colloquium, Julius-Maximilians-Universität Würzburg, Germany, June, 2013.
- Allen, J.J.B. (2013). *Frontal EEG Asymmetry and Major Depression: Methodology and Epistemology*. Invited colloquium, Universität Trier, Germany, July, 2013.
- Allen, J.J.B. (2013). *Identifying Neural Systems in Risk for Major Depressive Disorder: It's not Only in Your Head*. Invited colloquium, University of Amsterdam, The Netherlands, July, 2013.
- Allen, J.J.B. (2013). *Neural Correlates of Risk for Depression: Towards a Neurally-informed Treatment Approach*. Invited address, Universität Würzburg, Germany, October, 2013.
- Allen, J.J.B. (2013). *Neural Correlates of Risk for Depression: Towards a Neurally-informed Treatment Approach*. Invited colloquium, University of Reading, UK, October, 2013.
- Allen, J.J.B. (2013). *Multimodal Assessment of Neural Systems for Cognitive Control of Emotions in Depression: Towards a Neurally-informed Treatment Approach*. Invited address for the Karl-Bühler-Lecture, Universität Würzburg, October, 2013.
- Sanguinetti, J.S., Allen J. J. B., Hameroff, S. (2013). *Transcranial Ultrasound Brain Stimulation Increases Positive Affect in Healthy Participants*. Presented at the 2013 Frontiers in Biomedical Research Poster Forum, University of Arizona.
- Allen, J.J.B. (2013). *DSM-5 Changes: Navigating the New Behemoth*. Presented at the Southern Arizona

- Psychological Association Continuing Education event, November, 2013, Tucson, Arizona.
- Allen, J.J.B. (2013). *EEG and ERP for those who usually study fMRI or other acronyms*. Invited talk, Brain Mapping Workshop (BMW), November, 2013, University of Arizona.
- Allen, J.J.B. (2013). *EEG and ERP for those who usually study fMRI or other acronyms: The rest of the story*. Invited talk, Brain Mapping Workshop (BMW), December, 2013, University of Arizona.
- Allen, J.J.B. (2013). *Multimodal Assessment of Neural Systems for Cognitive Control of Emotions in Depression: Towards a Neurally-informed Treatment Approach*. Invited talk, University of Arizona Department of Psychiatry, Tucson, Arizona, December, 2013.
- Allen, J.J.B. (2014). *Key Themes in the Art of Healing*. Invited talk and discussant, Humanities, Medicine, & Wellness Conference, University of Arizona, February, 2014.
- Janssen, C.H.W., Vanuk, J., Anton, T., Hanusch, K., Raison, C.L., Allen J.J.B (2014). *Effects of a Unilateral Massage on Frontal EEG Asymmetry and Negative Affect - A Pilot Study*. Presented at the Wisconsin Symposium on Emotion. Madison, WI, April, 2014.
- Allen, J.J.B. (2014). *DSM-5: Navigating the New Behemoth*. Presented at the Arizona Geriatrics Society Spring Geriatric Mental Health and Aging Conference, Tucson, AZ, April 2014.
- Allen, J.J.B. (2014). *Neural systems underlying risk for depression: Towards a neurally-informed treatment approach*. Invited colloquium, Najooya University, Nagoya, Japan, September 2014.
- Allen, J.J.B. (2014). *Neural systems underlying risk for depression: Towards a neurally-informed treatment approach*. Invited colloquium, Kansei Gaikun University, Osaka, Japan, September 2014.
- Allen, J.J.B. (2014). *Neural systems underlying risk for depression: Towards a neurally-informed treatment approach*. Invited Keynote Address, International Organization of Psychophysiology Congress, Hiroshima, Japan, September 2014.
- Allen, J.J.B. (2014). *Neural systems underlying risk for depression: Towards a neurally-informed treatment approach*. University of Arizona Medical Center Intern Seminar, Tucson, AZ, December, 2014.
- Allen, J.J.B. (2015). *EEG Alpha Asymmetry Moderates Resting State fMRI Connectivity: A Simultaneous EEG/fMRI Study*. Invited presentation at Arizona Research Institute for Biomedical Imaging (ARIBI), University of Arizona, April, 2015.
- Goldstein, M.R., Britton, W.B., Allen, J.J.B., & Bootzin, R.R. (2015). *Effects of a mindfulness-based depression relapse prevention program on quantitative sleep EEG*. Presented at the Annual Meeting of the Associated Professional Sleep Societies (APSS), Seattle, WA, June 2015.
- Hameroff, S., Cooley, S., Sanguinetti, J.L., & Allen, J.J.B. (2015). *'Tuning the brain' – Can transcranial ultrasound (TUS) treat mental and cognitive disorders?* Invited presentation for the WAAG society ("Institute for art, science and technology), Amsterdam, The Netherlands, June 2015.
- Hameroff, S., Sanguinetti, J.L., Cooley, S., & Allen, J.J.B. (2015). *Tuning Your Mood with Transcranial Ultrasound*. Presented at Towards a Science of Consciousness 2015, Helsinki, Finland, June 2015.
- Allen, J.J.B., Sanguinetti, J.L., Cooley, S., & Hameroff, S., (2015). *The promise of altering consciousness and treating brain disorders with transcranial ultrasound (TUS)*. Invited Keynote, Towards a Science of Consciousness 2015, Helsinki, Finland, June 2015.
- Allen, J.J.B. (2015). *ICA-based artifact removal in EEG, using ADJUST, MARA, and SASICA*, Invited Workshop, Würzburg Germany, June 26, 2015.
- Allen, J.J.B. (2015). *The impact of Transcranial Ultrasound on Mood*, Invited talk, Neuroscience Datablitz, Tucson, AZ, November 3, 2015.
- Allen, J.J.B. (2015). *Listen! On being open to possibilities, and Ultrasound?* Invited Keynote Address, Golden Key Honor Society New Member Recognition Event, Tucson, AZ, November 9, 2015.
- Allen, J.J.B. (2016). *Neural systems underlying risk for depression: Towards a neurally-informed treatment approach*. Invited colloquium, University of Virginia, Charlottesville, VA, February, 2016.
- Oliver, J.A., Allen, J. J. B., Brandon, T. H. & Drobles, D. J. (2016, March). *Nicotine withdrawal and anhedonia: A neural index of motivational state predicts craving, affect and smoking behavior*. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Chicago, IL.
- Allen, J.J.B. (2016). *Neural systems underlying risk for depression: Towards a neurally-informed treatment approach*. Invited colloquium, VA Medical Center, Tucson, AZ, March, 2016.

- Allen, J.J.B. (2016). *Resting State Brain Activity and Risk for Depression: Time, Space, and Data Processing*. Invited address, ASU Brain Oscillations Conference, May 2016.
- Allen, J.J.B. (2016). *Resting EEG moderates Resting State fMRI connectivity in Emotion Networks*. Invited address, DAAD International Alumni Symposium, *The Role of Emotions for Health*, Würzburg, Germany, 14-19 June, 2016.
- Allen, J.J.B. (2016). Discussant for Biomarkers of Anxiety Risk from Infancy to Adulthood, *Society for Psychophysiological Research*, Minneapolis, MN, September, 2016.
- Reznik, S.J., & Allen, J.J.B. (2016). *Transcranial Ultrasound (TUS) reduces worry in a five-day double-blind pilot study*. Society for Research in Psychopathology, Baltimore, MD, October, 2016.
- Goldstein, M.R., Lewin, R.K., Bailey, E.F., & Allen, J.J.B. (2016). *Effects of yogic breathing and cognitively based psychosocial workshops for college students on stress physiology and well-being: A randomized controlled trial*. International Symposium for Contemplative Studies, San Diego, November, 2016.
- Allen, J.J.B. (2016). *Noninvasive Neuromodulation with Transcranial Ultrasound*. Invited colloquium, Würzburg, Germany, 16 November, 2016.
- Allen, J.J.B. (2016). *EEG asymmetry and risk for depression*. Invited guest lecture, Würzburg, Germany, 17 November, 2016.
- Allen, J.J.B. (2016). *Transcranial Ultrasound and Network Connectivity*. Presented at the ASU-UA CNS Conclave, Tempe, AZ, 10 December, 2016.
- Lane, R.D., Kromenacker, B, Sanova, A., & Allen, J.J.B. (2017) Low-frequency Heart Rate Variability Due to Slow Yoga Breathing is Vagally Mediated. Presented at the annual meeting of the American Psychosomatic Society, Seville, Spain, March, 2017.
- Reznik, S.J., Sanguinetti, J.L., & Allen, J.J.B. (2017). Transcranial ultrasound (TUS) reduces worry in a five-day double-blind pilot study. Presented at the 2nd International Brain Stimulation Conference, Barcelona, Spain, March, 2017.
- Sanguinetti, J.L., & Allen, J.J.B. (2017). Transcranial ultrasound (TUS) reduces worry in a five-day double-blind pilot study. Presented at the 2nd International Brain Stimulation Conference, Barcelona, Spain, March, 2017.
- Ding, Y., Ghamsari, F., & Allen, J.J.B. (2017) Exploring the Relationships between EEG Activity and RSA in Major Depressive Disorder Presented at the 29th annual meeting of the Association for Psychological Science, Boston, MA, May, 2017.
- Allen, J.J.B. (2017). *Neural systems underlying risk for depression: Towards a neurally-informed treatment approach*. Invited colloquium, VA Medical Center, Tucson, AZ, May, 2017.
- Allen, J.J.B. (2017). *Transcranial Ultrasound, Mood, and Resting State Network Connectivity*. Invited Plenary Address, The Science of Consciousness 2017, San Diego, CA, June 2017.
- Allen, J.J.B. (2017). *From Bench to Bedside: Electrophysiological Advancements in Psychiatric Care*. Invited Discussant, Annual meeting of the Society for Psychophysiological Research, Vienna, Austria, October, 2017.
- Allen, J.J.B. (2017). *Recent Developments in Frontal EEG Asymmetry Research*. Invited Discussant, Annual meeting of the Society for Psychophysiological Research, Vienna, Austria, October, 2017.
- Allen, J.J.B. (2017). *Impaired Processing of Rewards and Punishments in Affective Disorders during Anticipation and Consummation*. Invited Discussant, Annual meeting of the Society for Psychophysiological Research, Vienna, Austria, October, 2017.



**Specific Research Interests and Ongoing Research:**

- Etiology and treatment of mood disorders; Asymmetrical frontal brain activity as a marker of risk for depression;
- The efficacy of alternative treatments for major depression including neuromodulatory approaches;
- The assessment of memory and amnesia using event-related potentials; Assessing deception and malingering; Assessing memory and malingering in dissociative disorders.
- Individual differences in error monitoring, motivation, and emotion.
- Methodologies for using cerebral-psychophysiological measures in individual rather than group assessment.

**Research Awards:**

- 2016 Alexander von Humboldt Research Award (Direct Costs €60,000).
- 2016-2017 *Contribution of Genome-Wide Variation to Cognitive Vulnerability to Depression.* (NIH R56 MH108650; Co-Investigator; Chris Beevers, PI; Total first year costs \$766,672)
- 2016-2021 *Augmenting Cognitive Training in Older Adults – The ACT Grant* (NIH R01 AG054077-01, Co-I, Gene Alexander and Alex Hishaw, PIs);
- 2016-2020 *Refinement and Validation of a Military Emotional Intelligence Training* (DOD, Co-I, W. Scott Killgore, PI; Total Direct Costs \$3,929,441)
- 2016-2021 *Extending Sleep to Improve Glycemic Control in Pediatric Type 1 Diabetes*, R01 DK110528-01 (Co-Investigator; Michelle Perfect, PI).
- 2014-2017 *Identifying EEG indices of neural systems underlying risk for MDD*, (NIMH R21 MH101398, Principal Investigator, Total Costs \$ 421,358).
- 2014-2015 *Vagus Relaxation: An Android App Developed.* BIO5 Fellowships to Develop Collaborative Life Sciences Projects. (Co-PI; \$30,000)
- 2013-2014 *A randomized clinical trial of transcranial ultrasound for mood enhancement.* Funded by Thync/Neurotrek (PI; Direct Costs \$88,998)
- 2013 *Autonomic Physiology of Emotion Regulation and Depression in Breast Cancer Survivorship.* Funded by Arizona Cancer Center (Co-PI; Direct Costs \$30,000)
- 2011 Cognitive Science Supplemental Summer Faculty Salary Award (Direct Costs \$4000)
- 2009-2011 Predoctoral Fellowship NRSA for Amanda Brody (Training Sponsor; MH086173)
- 2008-2010 Predoctoral Fellowship NRSA for Jim Cavanagh (Training Sponsor; MH082560)
- 2009 DAAD, Germany, *Influence of Background Emotion on Neural Systems in Social Decision Making.* Funded one-month collaborative visit to Friedrich-Schiller-University Jena, focused on simultaneous EEG-fMRI recording and analysis. (PI)
- 2009 *Special Equipment Program in Imaging* grant from the University of Arizona. (PI, Total Direct Costs = \$17,320).
- 2007-2009 *Divorce in mid-life: Mechanisms of biopsychosocial adaptation over time* (R21; David Sbarra, PI; Consultant, Total Direct Costs = \$224,000)
- 2006-2009 *Orbitofrontal and Striatal Mechanisms in Stress and Addiction* (R21; Lesley Fellows, PI; Consultant, Total Direct Costs (subcontract) = \$210,000)
- 2005-2007 *Divorce, Depression, and Biobehavioral Dysregulation* (R03, David Sbarra PI; consultant)
- 2006-2007 *The Interaction of Candidate Genes and Frontal Brain Asymmetry in Risk for Depression.* Arizona Institute for Mental Health (PI, Direct costs = \$25,000)
- 2005 *Student-Faculty Interaction Grant*, Office of the Dean of Students, University of Arizona; One time cost approximately \$400.
- 2004-2006 *Imaging the “Affective” Anterior Cingulate in Depression*, Arizona Institute for Mental Health (PI, Direct costs = \$24,889)
- 2004-2011 *Trait and State Frontal Brain Asymmetry in Depression* (R01- MH066902) from the National Institutes of Health. Total direct costs \$1,125,000. (Principal Investigator)

- 2003-2006 Minority Predoctoral Fellowship NRSA for Lauren Kong (Training Sponsor)
- 2003-2004 *Feasibility of a Novel Treatment for Depression*, Arizona Alzheimer's Disease Core Center (PI, direct costs = \$10,000 + \$10,000 matching funds)
- 2003 International Travel Grant, Office of International Affairs, University of Arizona; One time costs = \$700
- 2003 *Student-Faculty Interaction Grant*, Office of the Dean of Students, University of Arizona; One time cost = \$288.
- 2002-2003 *Is "Brain Fingerprinting" Ready for Prime Time?* A Homeland Security Grant from the Office of the Vice President for Research at the University of Arizona. PI, total one-year direct costs=\$9925.
- 2001-2003 *Manipulation of Frontal Brain Activity as a Novel and Noninvasive Treatment for Depression*. An Independent Investigator Award from NARSAD. Two-year direct costs = \$93,006, Principal Investigator.
- 2001 SBSRI Research Professorship
- 2001 NCCAM Training Grant (Iris Bell, PI). (Training Faculty Member)
- 2000-2002 *The Comparative Efficacy of Acupuncture and Paxil in the Acute and Continuation Treatment of Depression*, from a private donor. Two-year Direct costs=\$218,000, Co-principal Investigator.
- 2000-2001 *Interactive Learning Environment for Individuals and Society 101: Structure of Mind and Behavior*. Direct Costs = \$20,800. (Principal Investigator)
- 2000-2002 Supplement to *Acupuncture in the Treatment of Depression* (5R01 AT000001-04) in response to PA-99-104, Research Supplements for Underrepresented Minority Individual. Direct costs = \$72,924 . (Principal Investigator)
- 1999-2001 Supplement to *Acupuncture in the Treatment of Depression* (1R01 AT000001-01A1) in response to PA-99-105, Research Supplements for Individuals with Disabilities. Direct costs = \$7620 . (Principal Investigator)
- 1998-2001 *Acupuncture Treatment of Depression During Pregnancy* (HS09988, in response to PAS-98-033, Acupuncture Clinical Trial Grants) from the National Institutes of Health AHCPR, PI Rachel Manber. Total (3-year) direct costs\$934,549; Co-principal Investigator, 10% time.
- 1997-2003 *Acupuncture in the Treatment of Depression* (1R01MH56965 & 1R01 AT000001) from the National Institutes of Health. Total direct costs of \$873,782. Principal Investigator, 33% time.
- 1998-2001 *Predicting Response to Treatment in Depression using Frontal EEG Asymmetry during Tryptophan Depletion*, a NARSAD Young Investigator Award. Funded (\$59,296) 7/1/98-6/30/01. (Principal Investigator).
- 1998-1999 *An Electrophysiological Examination of Attentional Mechanisms Involved in Mindfulness Meditation*. From the Fetzer Institute (#1413). Direct costs requested = \$19,993. (Co-investigator, PI is David Schnyer, and Co-investigator Al Kaszniak)
- 1997 *EEG Asymmetry as a Marker of Risk for Depressive Illness*. Summer Research Grant Development Stipend, Social and Behavioral Sciences Research Institute Small Grant, University of Arizona. (Principal Investigator)
- 1996 Junior Sabbatical Leave, Dean's Office, Social and Behavioral Sciences, University of Arizona
- 1996 *Detection of Deception and Malingered Amnesia*, a Small Grant (\$1479) from the Social and Behavioral Sciences Research Institute, University of Arizona. (Principal Investigator)

- 1996-1998 *Identifying Risk for Depression using Frontal EEG Asymmetry response to Tryptophan Depletion*, a NARSAD Young Investigator Award. Funded (\$58,613) 7/1/96-6/30/98. (Principal Investigator).
- 1994 *An Event-related Potential Investigation of Amnesia of Diverse Etiologies*, a Collaborative Research Grant (CRG.940305) from the NATO International Scientific Exchange Programmes. (Principal Investigator)
- 1993 *An Acupuncture Treatment Study for Unipolar Depression* (1 R21 RR09492-01), from the National Institutes of Health's Office of Alternative Medicine. Funded (\$33,118 direct costs) 9/24/1993-9/23/95. This was one of 20 funded applications out of an initial pool of over 400 applications in response to a special RFA. (Principal Investigator)
- 1993 *A Psychophysiological Examination of Posthypnotic Recognition Amnesia*, from the University of Arizona Small Grants Program, sponsored by the Office of the Vice President for Research and the University Foundation. (Principal Investigator)
- 1993 *A Comparative Study of Amnesias of Various Etiologies*, Social and Behavioral Sciences Research Institute Summer Grant, University of Arizona. (Principal Investigator)
- 1992 *Brain Electrical Source Analysis of Memory Systems in Amnesia*, Social and Behavioral Sciences Research Institute Small Grant, University of Arizona. (Principal Investigator)
- 1990-1991 Doctoral Dissertation Special Grant, University of Minnesota Graduate School. (Principal Investigator)
- 1990-1991 Northern California Society of Clinical Hypnosis Dissertation Research Grant. (Principal Investigator)

#### Grants Proposals Pending Review or Funding:

- 2017 *The impact of psilocybin on resting state network connectivity and symptoms in obsessive-compulsive disorder*. (International OCD Foundation, Co-I; PI Francisco Moreno)
- 2017 *Transcranial Ultrasound to Target Default Mode Network Connectivity in the Treatment of Mood Disorders*. (NIH R62/R33, PI, \$3,439,909)
- 2017 *Temporal-spatial-spectral EEG features that predict rs-fcMRI connectivity and MDD pathophysiology*. (NIMH F32, PI Ezra Smith).
- 2017 *The role of emotional processing in improving the quality of life of breast cancer patients: a mechanistic study of art therapy in reducing depression* (NIH R01, Co-I, PI Karen Weihs)
- 2016 *Real Time Heart Rate Variability Monitoring for Special Operation Forces*. (United States Army Special Operations Command, Co-I, Linda Powers, PI)
- 2016 *Trajectories of Adaptation to Interpersonal Loss (TRAIL): Brain and Biomarkers*, NIMH R01 (Co-I, PI Mary-Frances O'Connor).
- 2016 *PFI:BIC Biofeedback-controlled Wearable Smart Sensor Systems for Mental Disorder Management*, NSF IIP - Partnerships for Innovation-PFI (Co-PI with Meiling Roveda, Wolfgang Fink)
- 2016 *Developing a Novel Metric of Emotional Intelligence within the Framework of Cognitive Resilience*. (Co-I, PI Scott Killgore).
- 2016 *Training Cognitive Resilience to Sleep Deprivation through Neurofeedback*, (Co-I, PI Scott Killgore).
- 2016 *Examining Immune and Behavioral Mechanisms to Optimize the Antidepressant Effects of Whole Body Hyperthermia*, NIH NCCIH R61/R33 application. (Site PI, Chuck Raison, PI).
- 2015 *Stress Reactivity, Health and Well-being, and Substance Abuse in Pac-12 Student Athletes*, Pac-12 Student-Athlete Health & Well-Being Grant Program. (Co-Investigator, Sabrina Segal, PI).
- 2015 *Enhancing Vagal Tone in Congestive Heart Failure Using Smartphone Technology*, submitted to Arizona Biomedical Research Council (Co-Investigator, Richard Lane, PI).
- 2015 *Low-cost fiber optic magnetoencephalography imaging to study temporal and spatial dynamics of brain*

- activity*, submitted to the McKnight Foundation (Co-PI along with Palash Gangopadhyay).
- 2015 *Low-cost fiber optic magnetic imaging to study temporal and spatial dynamics of brain activities and heart rhythm*, submitted to the W.M. Keck Foundation (Co-Investigator, Palash Gangopadhyay, PI).
- 2015 *Optimizing transcranial alternating current stimulation based on neural temporal dynamics*, R21 (grants.gov #11936676) (PI)
- 2015 *Portable Acoustoele*, United States Department of Defense. (Russell Witte, PI)
- 2015 *Real-time Cardiac Monitoring to Promote Health and Wellness*. W. M. Keck Foundation, Medical Research – Proposal Abstract. (Co-Investigator, Wolfgang Fink, PI)
- 2015 *Simultaneous Neuroimaging using Fiber Optic Magnetoencephalography (foMEG) and Electroencephalography (EEG)* (NIH; Co-Investigator, Palash Gangopadhyay, PI)
- 2015 *Simultaneous Neuroimaging using Fiber Optic Magnetoencephalography (foMEG) and Electroencephalography (EEG)* (Keck Foundation; Co-Investigator, Nasser Peyghambarian, PI)
- 2014 *Estadiol as the Mechanism of Sex Differences in Worry*. Expert Advisor for the NIMH Biobehavioral Research Awards for Innovative New Scientists (BRAINS). PI: Jason Moser.
- 2014 *Acute Antidepressant Effects of Whole Body Hyperthermia: Predictors, Pathways, and Placebo-controlled Outcomes*. Role: Investigator (Chuck Raison PI). Direct Costs Requested: \$2,499,994.

### Research Consulting:

- 2001-2003 *Acupuncture in the Treatment of Bipolar Depression*. An R03 small grant from the National Institutes of Health Office of Alternative Medicine (Patricia Suppes, PI). (Consultant)
- 2001-2014 *Adaptation to Pain and Interpersonal Stress in Fibromyalgia..* National Institutes of Health (Alex Zautra, PI). (Consultant, Direct costs \$1,452,962)
- 2003-2004 *Acupuncture Point Selection Decision Engine (AcuDE)*, an SBIR Grant, Matt McCarthy, PI. (Consultant)
- 2011 *Dismantling Mindfulness: Contributions of Attention vs. Acceptance to the Treatment of Affective Dysfunction* (NIH K23, Willoughby Britton, PI; Consultant)
- 2018 *Probing cortical excitability and cognitive function with TMS*. (Data Monitoring and Safety Board for PI Ying-Hui Chou)

### Research Fellowships:

- 1990-1991 Doctoral Dissertation Research Fellow, University of Minnesota Graduate School
- 1988-1990 National Institute of Mental Health Research Traineeship Fellow
- 1986-1987 Graduate School Fellow, University of Minnesota Graduate School

### Teaching Experience:

#### University of Minnesota and University of Arizona

- 1995-present Biological Bases of Psychopathology (Occasionally)
- 1994-present Psychophysiology and Psychophysiology Laboratory (Bi-annually)
- 1992-present Clinical Assessment Methods, Practicum in Clinical Assessment (Annually)
- 1988-present Abnormal Psychology (Bi-annually)
- 1988-present Introduction to Psychology/ Individuals and Societies (Bi-annually)

Other Teaching Experience

1989-1992 Instructor, AATBS Psychology Licensing Exam Workshop: Abnormal Psychology, Clinical Psychology, Physiological Psychology, Psychopharmacology, Psychological Assessment, Learning and Behavior Therapy sections (6 occasions)

**Clinical Experience:**

1993-present Supervisor, of assessments conducted by graduate students at the University of Arizona, including: SCID, SCID-II, and HAM-D diagnostic and clinical interviews; WAIS-IV, WMS-IV, and MMPI-2-RF assessments

1991-1992 Intern, VA Medical Center, Minneapolis, Minnesota; specialization in neuropsychological assessment of dementia; minor rotations in inpatient psychiatry, health psychology, crisis intervention, and group therapy of post-traumatic stress disorder clients

1990-1991 Hypnotist, dissertation research; individual hypnosis screening with young adults using the Stanford Hypnotic Susceptibility Scale

1990-1991 Psychotherapist, Boynton Mental Health Clinic, University of Minnesota; crisis-focused and dynamically-oriented therapy with young adults

1988-1990 Psychometrist, Northwest Airlines; intellectual evaluation of prospective airline pilots

1988-1989 Volunteer Counselor, Walk-In Counseling Center, Minneapolis; short-term and crisis counseling of adults and couples

1987-1988 Psychology Clerk, VA Medical Center Inpatient Psychiatry Unit; University of Minnesota Hospital Neuropsychology Clinic; University of Minnesota Hospital Pediatric Neuropsychology Clinic

1987-1989 Therapy Assistant, Hennepin County Social Services; behavioral and cognitive-behavioral therapy of anxiety-disordered adults

1985-1986 Clinical Interviewer, research project of Professor Loren J. Chapman, Ph.D.; structured diagnostic interviews of psychosis-prone persons

**Other Professional Experience and Service:**

2017-2020 Consulting Editor, *Psychophysiology*

2017 Member, College of Science ad-hoc P&T committee for Clinical Professors

2016-present Associate Director, Center for Consciousness Studies

2016 Member, Hiring Committee, Psychology IT Technical Support Systems Analyst

2015-2016 Member, Nominating Committee, Society for Psychophysiological Research

2015-2016 Member, Psychology-CogSci Search Committee

2015-present Associate Head, Psychology

2015-present Director of Graduate Studies, Department of Psychology, University of Arizona

2015 Chair, Head Search Committee, Department of Psychology, University of Arizona

2015-2016 Member, Learning Management Systems Request For Proposals Working Group (invited by Michele Norin and Gail Burd).

2014-2015 Member, Program Committee, Society for Psychophysiological Research.

2014-present Member, Faculty Executive Advisory Committee, Department of Psychology, University of Arizona

2014-2015 Member, MBB IT Search Committee, University of Arizona

2013-present Member, MBB IT Advisory Committee, University of Arizona

2013-2014 Member, Presidential Conversation Group on Internet Interfacing, Society for Psychophysiological Research (appointed by President)

2013-2015 Chair, Clinical Search Committee, Department of Psychology, University of Arizona

2013-2015 Member, Development (Fundraising) Committee, Department of Psychology, University of Arizona

2013-2015 Member, Promotion and Tenure Committee, College of Science, University of Arizona

- 2013-present Member, Cancer center Prevention and Control Program
- 2013-present Member, Executive Committee, MESH (Mechanisms of Emotion, Social Relationships, and Health)
- 2012-2013 Member, nominations committee of the Society for Psychophysiological Research
- 2012-2013 Member, Program Committee, Society for Psychophysiological Research.
- 2012-present Summer mentor for graduate student Instructors, University of Arizona
- 2012-2015 Member, Scientist Review Board, JOURNYS (Journal of Youths in Science).
- 2011 Summer mentor for INDV101 Instructors, University of Arizona
- 2010-2011 Member, Clinical Psychology Search Committee
- 2010-2012 Member, College of Letters Arts and Sciences Research and instructional Computing Council (CLAS RICC = CRICC).
- 2010-2015 Mentor, Arizona Assurance Scholar Program, University of Arizona
- 2010-2013 Member, Promotion and Tenure Committee, Department of Psychology, University of Arizona
- 2009-2010 Past-President, Society for Psychophysiological Research
- 2009-2012 Chair, Publication Board, Society for Psychophysiological Research
- 2009-2010 Member, Ad-hoc Committee on the future of the Student (Tursky) Poster Award, Society for Psychophysiological Research.
- 2009-2010 Chair, Student (Tursky) Poster Award, Society for Psychophysiological Research.
- 2009-2010 Member, Program Committee and 50<sup>th</sup> Anniversary Subcommittee, Society for Psychophysiological Research.
- 2008-2009 President, Society for Psychophysiological Research
- 2008-present Member, Annual Review Committee, Department of Psychology, University of Arizona.
- 2008 Member, Faculty Advisory Panel, ADVANCE program, University of Arizona.
- 2008 Member, SBS IT Advisory Board, University of Arizona.
- 2008 Member, Scientific Advisory Committee for the University of Arizona Science Center Development Project
- 2008 Member, student poster evaluation committee, Association for Psychological Research.
- 2007-2008 President Elect, Society for Psychophysiological Research
- 2007 Ad-hoc committee to address stat tax inequity for research equipment in Social Science and Psychology
- 2006-2010 Member, campus-wide Information Technology Student Advisory Board, University of Arizona.
- 2005-2009 Member, Committee on Diversity, Department of Psychology, University of Arizona.
- 2005-2006 Member, Selections Committee, *Leicester and Kathryn Sherrill Creative Teaching Award*, University of Arizona
- 2005-2007 Member, Faculty Advisory Council, College of Social and Behavioral Sciences, University of Arizona
- 2005-2012 Member, Faculty Executive Advisory Committee, Department of Psychology, University of Arizona
- 2005-2010 Member, Learning Technologies Center Faculty Board, University of Arizona
- 2003-2004 Member, Clinical Psychology Search Committee
- 2003-2004 Member, Social Psychology Search Committee
- 2002-2012 Member, Board of Directors, Society for Psychophysiological Research
- 2002-present Member, Department of Psychology Subject Pool Committee
- 2002-2003 Honors Advisor, University of Arizona Department of Psychology
- 2002-2003 Member, Tursky Awards Committee, Society for Psychophysiological Research
- 2002-2003 Member, Faculty Annual Review Committee, Department of Psychology, University of Arizona
- 2002-2005 Member, Sabbatical Application Review Committee, College of Social and Behavioral Sciences, University of Arizona
- 2002-present Chair, Technical Support Committee, Department of Psychology, University of Arizona

- 2002-present Chair of the introductory subject pool web-based sign-up and point tracking, Department of Psychology, University of Arizona
- 2001-2009 Member, Scientific Review Panel of the Department of Defense Polygraph Institute
- 2001-2003 Faculty Representative, ILC Management Committee (IMC), University of Arizona
- 2001 Member, Southern Arizona Mental Health Association planning committee for National Depression Screening Day (October 11, 2001)
- 2001-2002 Mentor, SBS Dean's program for *Mentoring New Faculty In The College Of Social And Behavioral Sciences*
- 2000-2001 Member, Program Committee for the planning of the 2001 Convention of the Society for Psychophysiological Research
- 2000-2008 Associate Editor, *Biological Psychology*
- 1999 Member, Psychology Public Policy and Law Search Committee
- 1999-2001 Member, Society for Psychophysiological Research Ad-Hoc Committee on *The Place of Psychophysiology in the Biobehavioral Sciences*
- 1998-1999 Member, fMRI committee on travel disbursements, Department of Psychology, University of Arizona.
- 1998-1999 Member, Social Psychology search committee, University of Arizona.
- 1998-2001 Member, Space Planning Committee for Building Expansion, Psychology Department, University of Arizona
- 1997-2002 Chair, Technical Resource Utilization Committee, Department of Psychology, University of Arizona
- 1996-2000 Member, ex-officio, Executive Committee of the Southern Arizona Psychological Association (SAPA);
- 1996-2000 Chair, Academic Psychology Committee of SAPA
- 1996-1997 Member, nominations committee of the Society for Psychophysiological Research
- 1996-2009 Chair, Committee to Promote Student Interests of the Society for Psychophysiological Research
- 1996-1997 Member, Program Committee for the planning of the 1997 Convention of the Society for Psychophysiological Research
- 1996-1999 Member, Social and Behavioral Sciences Research Institute grants committee
- 1996-1997 Member, Social Psychology search committee, University of Arizona.
- 1996-2000 Member, Faculty Advisory Council.
- 1995-1996 Member, Cognitive Neuroscience search committee, University of Arizona.
- 1995-1997 Member, Planning Committee for the conference on The Interface of Emotion and Cognitive Neuroscience.
- 1995-1999 Member, Committee to oversee Psychology Departmental Homepage, University of Arizona.
- 1995 Chair, Technical Resource Utilization Committee, Department of Psychology, University of Arizona
- 1995-1999 Member, Undergraduate Curriculum Committee, Department of Psychology, University of Arizona
- 1995-2001 Member, Southern Arizona Psychological Association CE planning committee
- 1995-present Member, Clinical Training Committee (Chair 1999-present)
- 1994-1995 Member, Neuropsychology/Integrative neuroscience search committee, Department of Psychology, University of Arizona.
- 1994-1995 Member, Graduate Curriculum Committee, Department of Psychology, University of Arizona
- 1994-present Co-Chair, Introductory Psychology Screening Committee, Department of Psychology, University of Arizona
- 1994-2000 Co-Chair, Colloquium Committee, Department of Psychology, University of Arizona
- 1994-1995 Member, Social and Behavioral Sciences Hurwitz goals subcommittee in charge of Capstone, Research, and Internship experiences.

- 1994 Member, Vice President for Research's committee for the selection of recipients of stipends through the University of Arizona Small Grants Program.
- 1989-1990 Member, Clinical Search Committee; participated as a student member in the committee's search for the position of Assistant Professor in Clinical Psychology at the University of Minnesota
- 1988-1989 Member, Program Committee for the planning of the 1989 convention of the Society for Psychophysiological Research
- 1988 Consultant, Minnesota Twin Family Study; provided a workshop on computerized applications of signal processing

### Graduate Theses Supervised:

#### Ph.D.

- Harmon-Jones, E. (1995). *The Mere Exposure Effect and Emotion: A Psychophysiological Investigation*. Doctoral Dissertation, University of Arizona.
- Movius, H.L. (1999). *Cardiac Vagal Tone as a Predictor of Defensiveness, Openness, and Self-regulatory Style*. Doctoral Dissertation, University of Arizona.
- Reid, S.A. (1999). *The Experience of Emotion in Parkinson's Disease and normal Aging: Assessing the Roles of Facial Expressiveness and Cognitive Functioning*. Doctoral Dissertation, University of Arizona.
- Hitt, S.K. (2000). *Disclosure, Psychophysiology, and Clinical Depression*. Doctoral Dissertation, University of Arizona.
- Urry, H.L. (2001). *Effortful Inhibition of Affective Responses to Pictures: Effects on Central and Peripheral Physiology*. Doctoral Dissertation, University of Arizona.
- Coan, J.A. (2003). *The Heritability Of Trait Frontal EEG Asymmetry and Negative Emotionality: Sex Differences and Genetic Nonadditivity*. Doctoral Dissertation, University of Arizona.
- Dikman, Z.V. (2003). *Psychophysiological Responses to Affective Stimuli in High, Moderate, and Low Socialized Students*. Doctoral Dissertation, University of Arizona.
- O'Connor, M. (2003). *Autonomic and Emotion Regulation in Bereavement: A Longitudinal Study*. Doctoral Dissertation, University of Arizona.
- Nazarian, M. (2004). *An Alternative Treatment for Depression Using EEG Biofeedback to Alter Frontal Alpha Asymmetry and Improve Mood*. Doctoral Dissertation, University of Arizona.
- Mertens, R. (2006). *The Role of Psychophysiology in Forensic Assessments: Deception Detection, ERPs and Virtual Reality Mock Crime Scenarios*. Doctoral Dissertation, University of Arizona.
- Towers, D.N. (2007). *Psychometric Properties of Frontal EEG Asymmetry Scores*. Doctoral Dissertation, University of Arizona.
- Santerre, C.L. (2007). *The Psychophysiology of Intrusive Cognitions: Comparing Thought Suppression Vs Acceptance*. Doctoral Dissertation, University of Arizona.
- Chambers, A.S. (2007). *Relaxation During Pregnancy to Reduce Stress and Anxiety and Their Associated Complications*. Doctoral Dissertation, University of Arizona.
- Accortt, E.E. (2008). *Frontal Alpha Electroencephalography (EEG) Asymmetry as a risk factor for Pre-Menstrual Dysphoric Disorder (PMDD); A psychophysiological and family history approach*. Doctoral Dissertation, University of Arizona.
- Hegde, J. (2009). *Genetic, Hemodynamic, and Electrophysiological Correlates of Cortico-limbic Function in Clinically Depressed Individuals*. Doctoral Dissertation, University of Arizona.
- Cavanagh, J.F. (2010). *How Stress Alters Neural Systems of Reinforcement: A Model of Depressive Etiology*. Doctoral Dissertation, University of Arizona.
- Harlé, K.M. (2012). *Influences of sad affect and depression on social economic decision-making: a neurophysiological investigation*. Doctoral Dissertation, University of Arizona.
- Bismark, A.W. (2014). *The Heritability of and Genetic Contributions to, Frontal Electroencephalography*. Doctoral Dissertation, University of Arizona.
- Sanguinetti, J.L. (2014). *The dynamics of perceptual organization in the human visual system; Competition in time*. Doctoral Dissertation, University of Arizona.
- Zambrano-Vazquez, L. (2015). *The interaction of state and trait worry on response monitoring in those with worry and obsessive-compulsive symptoms*. Doctoral Dissertation, University of Arizona.



- Kogan, Anya (2016). *Frontal EEG Asymmetry and Communication Patterns During Discussions of Disagreements in Romantic Partners*. Doctoral Dissertation, University of Arizona.
- Dawson, Spencer (2017). *Memory, Arousal, and Perception of Sleep: The MAP Sleep Study*. Doctoral Dissertation, University of Arizona.

Masters

- Schnyer, D.M. (1994). *An Event-Related Brain Potential Examination of Priming in Words Presented Without Awareness*. Masters, University of Arizona.
- Reid, S.A. (1995). *Behavioral and Psychophysiological Interplay of Emotion and Cognition*. Masters, University of Arizona.
- Hitt, S.K. (1996). *The Efficacy of Acupuncture as a Treatment for Depression*. Masters, University of Arizona.
- Duke, L.M. (1996). *Resting Anterior Electroencephalographic Asymmetry in Depression: Exploring the Heterogeneity*. Masters, University of Arizona.
- Dikman, Z.V. (1997). *ERN Amplitude as a Function of Reward and Punishment in High and Low Socialized Students*. Masters, University of Arizona.
- Coan, J.A. (1999). *Voluntary Facial Expression and Hemispheric Asymmetry over the Frontal Cortex*. Masters, University of Arizona.
- O'Connor, M (2000). *Autonomic and Emotion Regulation in Bereavement and Depression*. Masters, University of Arizona.
- Nazarian, M. (2001). *EEG Biofeedback of Frontal EEG Asymmetry: A Yoked Control Study*. University of Arizona.
- Mertens, R. (2001). *Pushing the Limits: Can P3 differentiate true from false recognition elicited in the Deese paradigm?* University of Arizona.
- Chambers, A. S. (2004). *A Vagal Subtype of Depression*. University of Arizona.
- Elgavish-Accortt, E. (2004). *Frontal Alpha EEG Asymmetry and Menstrual Distress*. University of Arizona.
- MacDonald-Whitworth, N. (2005). *Neural Substrates of Response Monitoring*. University of Arizona.
- Hegde, J. (2007). *Resting Frontal EEG Asymmetry as a Moderator of Differential Hemodynamic Response in the ACC: An fMRI Study of Clinically Depressed and Non-Depressed Individuals*. University of Arizona.
- Bismark, A. (2009). *Serotonergic Genetic Polymorphisms and Their Contributions to the Psychophysiology of Depression*. University of Arizona.
- Kogan, A.V. (2010). *Cardiac Vagal Control, Oxytocin, Quality of Partner Relationship, and Emotional and Physical Adjustment in Breast Cancer*. University of Arizona.
- Sanguinetti, J.L. (2011). *High-Level Conceptual Access is Not Sufficient for Visual Experience*. University of Arizona. (co-chair)
- Zambrano-Vazquez, L. (2012). *Response Monitoring in Obsessive-compulsive, Worrying, and Anxious Individuals*. University of Arizona.
- Dieckman, L.W. (2014). *Accounting for complexity in emotion film stimuli validation*. University of Arizona