

# Stanford

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## Tali Ball, PhD

Instructor, Psychiatry and Behavioral Sciences

### CLINICAL OFFICES

- **Psychiatry**

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### Bio

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#### BIO

Tali Ball, PhD is the Director of the Stanford Translational Anxiety Research (STAR) Lab and an Instructor in the Stanford Department of Psychiatry and Behavioral Sciences. Her primary research aim is to translate neurobiologically-based models of anxiety into improved treatment outcomes. She received her PhD in Clinical Psychology from the SDSU/UCSD Joint Doctoral Program, where her dissertation work established relationships between brain activation during fear extinction learning and anxiety reduction following a brief exposure intervention. Her postdoctoral research focused on developing clinically useful metrics of brain circuit function and incorporating neuroscience-based assessments into clinical practice. Her work brings together clinical psychology, neuroscience, and computational approaches, always with an eye towards how the results of the science can be directly implemented in clinical practice.

#### CLINICAL FOCUS

- Psychology

#### ACADEMIC APPOINTMENTS

- Instructor, Psychiatry and Behavioral Sciences

#### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Psychology Postdoctoral Fellowship (2018) CA
- Internship: VA San Diego Health System/University of CA San Diego Psychology Internship Program (2015) CA
- PhD Training: UC San Diego Office of the Registrar (2015) CA

#### LINKS

- STAR Lab website: <http://stanfordstarlab.com>

### Research & Scholarship

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#### CLINICAL TRIALS

- Evaluating a Personalized Trans-Diagnostic Group Therapy for Anxiety, Recruiting

- Using the Neuroscience of Fear Extinction for Anxiety Reduction, Recruiting

## Publications

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### PUBLICATIONS

- **Quantifying person-level brain network functioning to facilitate clinical translation** *TRANSLATIONAL PSYCHIATRY*  
Ball, T. M., Goldstein-Piekarski, A. N., Gatt, J. M., Williams, L. M.  
2017; 7: e1248
- **Brain activation during fear extinction predicts exposure success** *DEPRESSION AND ANXIETY*  
Ball, T. M., Knapp, S. E., Paulus, M. P., Stein, M. B.  
2017; 34 (3): 257-266
- **Double Dipping in Machine Learning: Problems and Solutions.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*  
Ball, T. M., Squeglia, L. M., Tapert, S. F., Paulus, M. P.  
2019
- **Attention Impairments and the "Inattention Biotype" in Major Depressive Disorder**  
Keller, A., Ball, T., Williams, L.  
ELSEVIER SCIENCE INC.2019: S244
- **Using Machine Learning to Characterize Circuit-Based Subtypes in Mood and Anxiety Disorders**  
Young, C., Harati, S., Ball, T., Williams, L.  
ELSEVIER SCIENCE INC.2019: S310
- **Using neuroimaging to predict relapse in stimulant dependence: A comparison of linear and machine learning models.** *NeuroImage. Clinical*  
Gowin, J. L., Ernst, M., Ball, T., May, A. C., Sloan, M. E., Tapert, S. F., Paulus, M. P.  
2019; 21: 101676
- **Deep phenotyping of attention impairments and the 'Inattention Biotype' in Major Depressive Disorder.** *Psychological medicine*  
Keller, A. S., Ball, T. M., Williams, L. M.  
2019: 1–10
- **Developing a Standardized Taxonomy of Circuit Dysfunction Related to Phenotypes of Mood and Anxiety Disorder**  
Samara, Z., Ball, T., Goldstein-Piekarski, A., Grisanzio, K., Correa, C., Williams, L. M.  
ELSEVIER SCIENCE INC.2018: S377
- **Intrinsic functional connectivity predicts remission on antidepressants: a randomized controlled trial to identify clinically applicable imaging biomarkers** *TRANSLATIONAL PSYCHIATRY*  
Goldstein-Piekarski, A. N., Staveland, B. R., Ball, T. M., Yesavage, J., Korgaonkar, M. S., Williams, L. M.  
2018; 8: 57
- **An Approach to Profiling Mood and Anxiety Disorders Based on Functional Brain Circuits, Behavior and Symptoms**  
Samara, Z., Ball, T., Goldstein-Piekarski, A. N., Grisanzio, K. A., Correa, C., Williams, L. M.  
NATURE PUBLISHING GROUP.2017: S368
- **Computational Psychiatry: New Perspectives on Mental Illness (Book Review)** *AMERICAN JOURNAL OF PSYCHIATRY*  
Book Review Authored by: Ball, T. M., Goldstein-Piekarski, A. N.  
2017; 174 (7): 698+
- **Individualized relapse prediction: Personality measures and striatal and insular activity during reward-processing robustly predict relapse (vol 152, pg 93, 2015)** *DRUG AND ALCOHOL DEPENDENCE*  
Gowin, J. L., Ball, T. M., Wittmann, M., Tapert, S. F., Paulus, M. P.  
2017; 175: 255
- **Clustering by Salience Network Activation to Emotional Faces Identifies a Transdiagnostic Subtype that is Associated with Specific Interoceptive Related Symptoms**  
Goldstein-Piekarski, A., Ball, T., Samara, Z., Yesavage, J., Schatzberg, A., Korgaonkar, M., Williams, L.  
ELSEVIER SCIENCE INC.2017: S133–S134

- **Neural Predictors of Initiating Alcohol Use During Adolescence** *AMERICAN JOURNAL OF PSYCHIATRY*  
Squeglia, L. M., Ball, T. M., Jacobus, J., Brumback, T., Mckenna, B. S., Nguyen-Louie, T. T., Sorg, S. F., Paulus, M. P., Tapert, S. F.  
2017; 174 (2): 172-185
- **Functional Connectivity in the Default Mode Network: Establishing Reproducibility and Individual Norms**  
Ball, T., Goldstein-Piekarski, A. N., Gatt, J., Fornito, A., Williams, L. M.  
NATURE PUBLISHING GROUP.2016: S299–S300
- **Individualized relapse prediction: Personality measures and striatal and insular activity during reward-processing robustly predict relapse** *DRUG AND ALCOHOL DEPENDENCE*  
Gowin, J. L., Ball, T. M., Wittmann, M., Tapert, S. F., Paulus, M. P.  
2015; 152: 93–101
- **TOWARD THE APPLICATION OF FUNCTIONAL NEUROIMAGING TO INDIVIDUALIZED TREATMENT FOR ANXIETY AND DEPRESSION** *DEPRESSION AND ANXIETY*  
Ball, T. M., Stein, M. B., Paulus, M. P.  
2014; 31 (11): 920-933
- **Single-Subject Anxiety Treatment Outcome Prediction using Functional Neuroimaging** *NEUROPSYCHOPHARMACOLOGY*  
Ball, T. M., Stein, M. B., Ramsawh, H. J., Campbell-Sills, L., Paulus, M. P.  
2014; 39 (5): 1254–61
- **Prefrontal dysfunction during emotion regulation in generalized anxiety and panic disorders** *PSYCHOLOGICAL MEDICINE*  
Ball, T. M., Ramsawh, H. J., Campbell-Sills, L., Paulus, M. P., Stein, M. B.  
2013; 43 (7): 1475-1486
- **Selective effects of social anxiety, anxiety sensitivity, and negative affectivity on the neural bases of emotional face processing** *NEUROIMAGE*  
Ball, T. M., Sullivan, S., Flagan, T., Hitchcock, C. A., Simmons, A., Paulus, M. P., Stein, M. B.  
2012; 59 (2): 1879-1887
- **Assessing Emotion Regulation in Social Anxiety Disorder: The Emotion Regulation Interview** *JOURNAL OF PSYCHOPATHOLOGY AND BEHAVIORAL ASSESSMENT*  
Werner, K. H., Goldin, P. R., Ball, T. M., Heimberg, R. G., Gross, J. J.  
2011; 33 (3): 346-354
- **Neural Mechanisms of Cognitive Reappraisal of Negative Self-Beliefs in Social Anxiety Disorder** *BIOLOGICAL PSYCHIATRY*  
Goldin, P. R., Manber-Ball, T., Werner, K., Heimberg, R., Gross, J. J.  
2009; 66 (12): 1091-1099