Stanford



Andrea Goldstein-Piekarski

Assistant Professor (Research) of Psychiatry and Behavioral Sciences (Sleep Medicine)

Psychiatry and Behavioral Sciences - Sleep Medicine

Bio

BIO

Dr. Goldstein-Piekarski directs the Computational Psychiatry, Neuroscience, and Sleep Laboratory (CoPsyN Sleep Lab) as an Assistant Professor in the Department of Psychiatry and Behavioral Sciences at Stanford University School of Medicine and PI within the Sierra-Pacific Mental Illness Research, Education and Clinical Center (MIRECC) at the Palo Alto VA. She received her PhD in 2014 at the University of California, Berkeley where she studied the consequences of sleep on emotional brain function. She then completed a Postdoctoral fellowship at Stanford focusing on understanding the brain basis of anxiety and depression.

As the director of the CoPsyN Sleep Lab she is developing a translational, interdisciplinary research program that combines human neuroimaging, high-density EEG sleep recording, and computational modeling to understand the neural mechanisms through which sleep disruption contributes to affective disorders, particularly depression, across the lifespan. The ultimate goals of this research are to (1) develop mechanistically-informed interventions that directly target aspects of sleep and brain function to prevent and treat affective disorders and (2) identify novel biomarkers which can identify which individuals are most likely to experience improved mood following targeted sleep interventions.

This work is currently supported by The KLS Foundation, a R01 from National Institute of Mental Health, and a R61 from the National Institute of Mental Health.

ACADEMIC APPOINTMENTS

- Assistant Professor-Research, Psychiatry and Behavioral Sciences - Sleep Medicine
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Merit Based Travel Award, American College of Neuropsychopharmacology (2017)
- Merit based Travel Fellowship Award, Society of Biological Psychiatry (2017)
- Seed Grant Recipient, Center for Neurobiological Imaging (CNI) (2017)
- NRSA F32 Title: Neuroimaging and Machine Learning to Redefine Anxiety and Depression, NIMH (2016-2019)
- Merit Based Professional Development Travel Award, Society for Neuroscience (2016)

- Clinical Loan Repayment Award, National Institute of Health (2015-2016)
- Seed Grant Recipient, Center for Neurobiological Imaging (CNI) (2015)
- Merit Based Trainee Travel Award, Sleep Research Society (2012)
- NRSA F31 Title: Sleep Loss, Trait Anxiety and Emotional Brain Reactivity, NIMH (2011-2014)
- Honorable Mention, NSF Graduate Research Fellowship (2009)
- Graduated Summa Cum Laude, University of California, San Diego (2006)

PROFESSIONAL EDUCATION

- PhD, University of California Berkeley , Neuroscience/Psychology (2014)
- BS, University of California San Diego , Cognitive Science (2006)
- BS, University of California San Diego , Psychology (2006)

LINKS

- CoPsyN Sleep Lab: http://med.stanford.edu/copsynsleeplab.html

Research & Scholarship

CLINICAL TRIALS

- A Novel Use of a Sleep Intervention to Target the Emotion Regulation Brain Network to Treat Depression and Anxiety, Recruiting
- Sleep Disturbance and Emotion Regulation Brain Dysfunction as Mechanisms of Neuropsychiatric Symptoms in Alzheimer's Dementia, Recruiting
- Sleep Mechanisms Of Regulating Emotions, Recruiting
- Brief Telehealth CBT-I Intervention in the Context of the COVID-19 Pandemic, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Allison Morningstar

Postdoctoral Faculty Sponsor

Adam Krause

Doctoral Dissertation Advisor (AC)

Lily Gebhart, Samantha Gray, Sarah Izabel, John Wang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (PhD Program)

Publications

PUBLICATIONS

- **Adaptive cognitive control circuit changes associated with problem-solving ability and depression symptom outcomes over 24 months.** *Science translational medicine*

  Zhang, X., Pines, A., Stetz, P., Goldstein-Piekarski, A. N., Xiao, L., Lv, N., Tozzi, L., Lavori, P. W., Snowden, M. B., Venditti, E. M., Smyth, J. M., Suppes, T., Ajilore, et al

  2024; 16 (763): eadh3172

- **PREDICTORS OF INSOMNIA AND DEPRESSION IN A RANDOMIZED CONTROLLED INSOMNIA TREATMENT TRIAL IN THE COVID-19 PANDEMIC**

Osorno, R., Ahmadi, M., Solomon, N., O'Hora, K., Morehouse, A., Lopez, M., Kim, J., Manber, R., Goldstein-Piekarski, A.
OXFORD UNIV PRESS INC.2024

- **MENTAL HEALTH AND SUBSTANCE USE OUTCOMES ASSOCIATED WITH USE OF CANNABIS AS A SLEEP AID: A CO-TWIN CONTROL STUDY**
  Panchal, Z., Sakai, J., Goldstein-Piekarski, A., Ellingson, J., Hopfer, C., Corley, R., Vrieze, S., McGue, M., Hewitt, J., Iacono, W., Ross, J.
  OXFORD UNIV PRESS INC.2024: A427

- **Transdiagnostic Mood, Anxiety and Trauma Symptom Factors in Alcohol Use Disorder: Neural Correlates Across Three Brain Networks.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
  Tenekedjieva, L. T., McCalley, D. M., Goldstein-Piekarski, A. N., Williams, L. M., Padula, C. B.
  2024

- **Mediating Effects of Neural Targets on Depression, Weight, and Anxiety Outcomes of an Integrated Collaborative Care Intervention: The ENGAGE-2 Mechanistic Pilot Randomized Clinical Trial.** *Biological psychiatry global open science*
  Lv, N., Ajilore, O. A., Xiao, L., Venditti, E. M., Lavori, P. W., Gerber, B. S., Snowden, M. B., Wittels, N. E., Ronneberg, C. R., Stetz, P., Barve, A., Shrestha, R., Dosala, et al
  2023; 3 (3): 430-442

- **Daytime affect and sleep EEG activity: A data-driven exploration.** *Journal of sleep research*
  Zhang, J. X., Ten Brink, M., Yan, Y., Goldstein-Piekarski, A., Krause, A. J., Manber, R., Kreibig, S., Gross, J. J.
  2023: e13916

- **Improvements in Immediate and Delayed Memory With Insomnia Therapy and Their Associations With SWA in Older Adults**
  Ahmadi, M., Krause, A. J., O'Hora, K. P., Hernandez, B., Lazzeroni, L., Zeitzer, J. M., Friedman, L. F., Posner, D., Kushida, C. A., Yesavage, J. A., Saletin, J., Goldstein-Piekarski, A.
  ELSEVIER SCIENCE INC.2023: S301

- **EARLY SLEEP INTERVENTION MITIGATES POOR SLEEP AND IMPROVES MOOD IN THE COVID-19 PANDEMIC**
  Osorno, R., Solomon, N., Ahmadi, M., O'hora, K., Lopez, M., Morehouse, A., Kim, J., Manber, R., Goldstein-Piekarski, A.
  OXFORD UNIV PRESS INC.2023: A141

- **ADULTS WITH AND WITHOUT MILD COGNITIVE IMPAIRMENT SHOW SIMILAR TREATMENT ADHERENCE AND SLEEP IMPROVEMENT AFTER INSOMNIA THERAPY**
  Morehouse, A., O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Goldstein-Piekarski, A.
  OXFORD UNIV PRESS INC.2023

- **Amygdala neurocircuitry at the interface between emotional regulation and narcolepsy with cataplexy.** *Frontiers in neuroscience*
  Sardar, H., Goldstein-Piekarski, A. N., Giardino, W. J.
  2023; 17: 1152594

- **Amygdala neurocircuitry at the interface between emotional regulation and narcolepsy with cataplexy** *FRONTIERS IN NEUROSCIENCE*
  Sardar, H., Goldstein-Piekarski, A. N., Giardino, W. J.
  2023; 17

- **Pre-sleep affect predicts subsequent REM frontal theta in nonlinear fashion.** *Cognitive, affective & behavioral neuroscience*
  Ten Brink, M., Yan, Y., Zhang, J., Goldstein-Piekarski, A., Krause, A., Kreibig, S., Manber, R., Gross, J.
  2023

- **Effects of Acceptance and Commitment Therapy (ACT) and Mindfulness-Based Stress Reduction (MBSR) on symptoms and emotional competencies in individuals with multiple sclerosis.** *Multiple sclerosis and related disorders*
  Sadeghi-Bahmani, D., Esmaeili, L., Mokhtari, F., Sadeghi Bahmani, L., Afsharzadeh, M., Shaygannejad, V., Mirmosayyeb, O., Goldstein-Piekarski, A. N., Gross, J. J.
  2022; 67: 104029

- **EXAMINING THE ASSOCIATION OF TRAIT SLEEP REACTIVITY WITH CHANGES IN SLEEP, DEPRESSION, AND ANXIETY IN THE COVID-19 PANDEMIC**
  Cirelli, A., Krause, A., O'Hora, K., Osorno, R., Sadeghi-Bahmani, D., Lopez, M., Morehouse, A., Goldstein-Piekarski, A.
  OXFORD UNIV PRESS INC.2022: A21

- **NON-PHARMACOLOGICAL INSOMNIA THERAPY IS ROBUST TO CO-OCCURRING PAIN IN OLDER ADULTS**

Krause, A., Ahmadi, M., O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Saletin, J., Goldstein-Piekarski, A.

OXFORD UNIV PRESS INC.2022: A197-A198

- **SYMPTOMS OF INSOMNIA AND DEPRESSION AMONG INDIVIDUALS WITH MULTIPLE SCLEROSIS BEFORE AND DURING THE COVID-19-RESULTS FROM A PROSPECTIVE LONGITUDINAL STUDY**

  Sadeghi-Bahmani, D., Mohammadian, Y., Piri, N., Bahmani, L., Brand, S., Goldstein-Piekarski, A., Khazaie, H., Gross, J.

  OXFORD UNIV PRESS INC.2022: A278

- **THE EFFECT OF DISTINCT COMPONENTS OF CBT-I ON SLOW WAVE POWER AND ENERGY**

  Ahmadi, M., Krause, A., O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Saletin, J., Goldstein-Piekarski, A.

  OXFORD UNIV PRESS INC.2022: A197

- **THE EFFECTS OF INSOMNIA THERAPY ON DEPRESSION, ANXIETY, AND DAILY FUNCTIONING IN INDIVIDUALS WITH INSOMNIA AND MILD COGNITIVE IMPAIRMENT**

  Morehouse, A., O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Goldstein-Piekarski, A.

  OXFORD UNIV PRESS INC.2022: A275-A276

- **THE IMPACT OF NON-PHARMACOLOGICAL INSOMNIA THERAPY ON MOOD AND SLEEP IN MORNING AND EVENING CHRONOTYPES IN OLDER ADULTS**

  Lopez, M., Krause, A., O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Goldstein-Piekarski, A.

  OXFORD UNIV PRESS INC.2022: A211-A212

- **PHYSICAL ACTIVITY AND SLEEP PATTERNS BEFORE AND DURING THE COVID-19-PANDEMIC - RESULTS FROM A CROSS-SECTIONAL AND RETROSPECTIVE STUDY**

  Sadeghi-Bahmani, D., O'Hora, K., Osorno, R., Lopez, M., Morehouse, A., Krause, A., Goldstein-Piekarski, A.

  OXFORD UNIV PRESS INC.2022: A303

- **Transdiagnostic Versus Traditional Diagnostic Approaches to Psychiatric Symptoms in Alcohol Use Disorder: Associations With Emotion Regulation and Salience Network Function**

  Tenekedjieva, L., Goldstein-Piekarski, A. N., Madore, M. R., Kaur, M., Coffigny, M., Padula, C. B.

  ELSEVIER SCIENCE INC.2022: S104

- **Baseline Intrinsic Functional Brain Connectomes Predict Treatment Outcome for Depression Comorbid With Obesity: A Report From the Engage Randomized Controlled Trial**

  Zhang, X., Stetz, P., Goldstein-Piekarski, A. N., Xiao, L., Lv, N., Rosas, L. G., Snowden, M. B., Smyth, J. M., Suppes, T., Ajilore, O., Williams, L. M.

  SPRINGERNATURE.2021: 281

- **Problem-solving therapy-induced amygdala engagement mediates lifestyle behavior change in obesity with comorbid depression: a randomized proof-of-mechanism trial.** *The American journal of clinical nutrition*

  Lv, N., Lefferts, W. K., Xiao, L., Goldstein-Piekarski, A. N., Wielgosz, J., Lavori, P. W., Simmons, J. M., Smyth, J. M., Stetz, P., Venditti, E. M., Lewis, M. A., Rosas, L. G., Snowden, et al

  2021

- **Association of Short and Long Sleep Duration With Amyloid-beta Burden and Cognition in Aging.** *JAMA neurology*

  Winer, J. R., Deters, K. D., Kennedy, G., Jin, M., Goldstein-Piekarski, A., Poston, K. L., Mormino, E. C.

  2021

- **Mapping Neural Circuit Biotypes to Symptoms and Behavioral Dimensions of Depression and Anxiety.** *Biological psychiatry*

  Goldstein-Piekarski, A. N., Ball, T. M., Samara, Z., Staveland, B. R., Keller, A. S., Fleming, S. L., Grisanzio, K. A., Holt-Gosselin, B., Stetz, P., Ma, J., Williams, L. M.

  2021

- **Early changes in neural circuit function engaged by negative emotion and modified by behavioural intervention are associated with depression and problem-solving outcomes: A report from the ENGAGE randomized controlled trial.** *EBioMedicine*

  Goldstein-Piekarski, A. N., Wielgosz, J., Xiao, L., Stetz, P., Correa, C. G., Chang, S. E., Lv, N., Rosas, L. G., Lavori, P. W., Snowden, M. B., Venditti, E. M., Simmons, J. M., Smyth, et al

  2021; 67: 103387

- **Activation of Cognitive Control Network During Inhibition Processing Dynamically Predicts Symptom Outcomes for Depression: A 24-month Longitudinal Study**
  Zhang, X., Stetz, P., Goldstein-Piekarski, A. N., Xiao, L., Lv, N., Rosas, L. G., Lavori, P. W., Snowden, M. B., Venditti, E. M., Simmons, J. M., Smyth, J. M., Suppes, T., Lewis, et al
  ELSEVIER SCIENCE INC.2021: S98

- **EFFICACY OF CBT-I AND ITS COMPONENTS ON HEALTH-RELATED QUALITY OF LIFE OUTCOMES IN OLDER ADULTS**
  Showen, K., O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Goldstein-Piekarski, A.
  OXFORD UNIV PRESS INC.2021: A143-A144

- **RELATIVE EFFECTIVENESS OF COGNITIVE BEHAVIORAL THERAPY AND ITS COMPONENTS IN IMPROVING INSOMNIA SYMPTOMS IN OLDER ADULTS**
  O'Hora, K., Hernandez, B., Lazzeroni, L., Zeitzer, J., Friedman, L., Posner, D., Kushida, C., Yesavage, J., Goldstein-Piekarski, A.
  OXFORD UNIV PRESS INC.2021: A144

- **Accelerated Neuromodulation Therapy for Obsessive-Compulsive Disorder.** *Brain stimulation*
  Williams, N. R., Sudheimer, K. D., Cole, E. J., Varias, A. D., Goldstein-Piekarski, A. N., Stetz, P. n., Lombardi, A. n., Filippou-Frye, M. n., van Roessel, P. n., Anderson, K. n., McCarthy, E. A., Wright, B. n., Sandhu, et al
  2021

- **Viability of an Early Sleep Intervention to Mitigate Poor Sleep and Improve Well-being in the COVID-19 Pandemic: Protocol for a Feasibility Randomized Controlled Trial.** *JMIR research protocols*
  O'Hora, K. P., Osorno, R. A., Sadeghi-Bahmani, D., Lopez, M., Morehouse, A., Kim, J. P., Manber, R., Goldstein-Piekarski, A. N.
  2021

- **The ENGAGE-2 study: Engaging self-regulation targets to understand the mechanisms of behavior change and improve mood and weight outcomes in a randomized controlled trial (Phase 2).** *Contemporary clinical trials*
  Lv, N., Ajilore, O. A., Ronneberg, C. R., Venditti, E. M., Snowden, M. B., Lavori, P. W., Xiao, L., Goldstein-Piekarski, A. N., Wielgosz, J., Wittels, N. E., Barve, A., Patel, A. S., Eckley, et al
  2020: 106072

- **Understanding mechanisms of integrated behavioral therapy for co-occurring obesity and depression in primary care: a mediation analysis in the RAINBOW trial.** *Translational behavioral medicine*
  Rosas, L. G., Xiao, L., Lv, N., Lavori, P. W., Venditti, E. M., Snowden, M. B., Smyth, J. M., Lewis, M. A., Williams, L. M., Suppes, T., Goldstein-Piekarski, A. N., Ma, J.
  2020

- **Reduced Nonconscious Reactivity to Threat in Amygdala Mediates Physical Activity and Energy Expenditure in Integrated Behavior Therapy for Adults With Obesity and Comorbid Depression**
  Ma, J., Lv, N., Xiao, L., Goldstein-Piekarski, A., Wielgosz, J., Lavori, P., Stetz, P., Rosas, L., Venditti, E., Snowden, M., Smyth, J., Lewis, M., Suppes, et al
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Sleep-wake disorders in Alzheimer's disease: further genetic analyses in relation to objective sleep measures.** *International psychogeriatrics*
  Yesavage, J. A., Noda, A., Heath, A., McNerney, M. W., Domingue, B. W., Hernandez, Y., Benson, G., Hallmayer, J., O'Hara, R., Williams, L. M., Goldstein-Piekarski, A. N., Zeitzer, J. M., Fairchild, et al
  2019: 1–7

- **Intrinsic connectomes are a predictive biomarker of remission in major depressive disorder.** *Molecular psychiatry*
  Korgaonkar, M. S., Goldstein-Piekarski, A. N., Fornito, A., Williams, L. M.
  2019

- **Functional Impacts of Acute Stress on Negative Affective Circuit Function in Anxiety and Depression**
  Goldstein, A., Tozzi, L., Sudheimer, K., Schatzberg, A., Williams, L.
  ELSEVIER SCIENCE INC.2019: S134

- **Connectivity of the Cognitive Control Network During Response Inhibition as a Predictive and Response Biomarker in Major Depression: Evidence From a Randomized Clinical Trial.** *Biological psychiatry*
  Tozzi, L. n., Goldstein-Piekarski, A. N., Korgaonkar, M. S., Williams, L. M.
  2019

- **Integrating sleep, neuroimaging, and computational approaches for precision psychiatry.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
  Goldstein-Piekarski, A. N., Holt-Gosselin, B. n., O'Hora, K. n., Williams, L. M.
  2019
- **Sex, Sleep Deprivation, and the Anxious Brain** *JOURNAL OF COGNITIVE NEUROSCIENCE*
  Goldstein-Piekarski, A. N., Greer, S. M., Saletin, J. M., Harvey, A. G., Williams, L. M., Walker, M. P.
  2018; 30 (4): 565–78
- **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
- **Antidepressant Outcomes Predicted by Genetic Variation in Corticotropin-Releasing Hormone Binding Protein** *AMERICAN JOURNAL OF PSYCHIATRY*
  O'Connell, C. P., Goldstein-Piekarski, A. N., Nemeroff, C. B., Schatzberg, A. F., Debattista, C., Carrillo-Roa, T., Binder, E. B., Dunlop, B. W., Craighead, W., Mayberg, H. S., Williams, L. M.
  2018; 175 (3): 251–61
- **Transdiagnostic Symptom Clusters and Associations With Brain, Behavior, and Daily Function in Mood, Anxiety, and Trauma Disorders**
  Grisanzio, K. A., Goldstein-Piekarski, A. N., Wang, M., Ahmed, A., Samara, Z., Williams, L. M.
  AMER MEDICAL ASSOC.2018: 201–9
- **Antidepressant Outcomes Predicted by Genetic Variation in Corticotropin-Releasing Hormone Binding Protein.** *The American journal of psychiatry*
  O'Connell, C. P., Goldstein-Piekarski, A. N., Nemeroff, C. B., Schatzberg, A. F., Debattista, C. n., Carrillo-Roa, T. n., Binder, E. B., Dunlop, B. W., Craighead, W. E., Mayberg, H. S., Williams, L. M.
  2018; 175 (3): 251–61
- **The ENGAGE study: Integrating neuroimaging, virtual reality and smartphone sensing to understand self-regulation for managing depression and obesity in a precision medicine model.** *Behaviour research and therapy*
  Williams, L. M., Pines, A. n., Goldstein-Piekarski, A. N., Rosas, L. G., Kullar, M. n., Sacchet, M. D., Gevaert, O. n., Bailenson, J. n., Lavori, P. W., Dagum, P. n., Wandell, B. n., Correa, C. n., Greenleaf, et al
  2018; 101: 58–70
- **Clustering Identifies Symptom-Brain-Behavior Subtypes That cut Across Mood, Anxiety, and Trauma Disorders**
  Grisanzio, K. A., Goldstein-Piekarski, A. N., Wang, M., Ahmed, A., Samara, Z., Williams, L.
  NATURE PUBLISHING GROUP.2017: S371–S372
- **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-+
- **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
- **Functional Connectome Networks Underlying Outcomes of Antidepressant Medication in Major Depressive Disorders**
  Korgaonkar, M., Goldstein-Piekarski, A., Fornito, A., Williams, L.
  ELSEVIER SCIENCE INC.2017: S104
- **Sex Differences Modulating Serotonergic Polymorphisms Implicated in the Mechanistic Pathways of Risk for Depression and Related Disorders** *JOURNAL OF NEUROSCIENCE RESEARCH*
  Perry, L. M., Goldstein-Piekarski, A. N., Williams, L. M.
  2017; 95 (1-2): 737-762
- **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

- **Human Amygdala Engagement Moderated by Early Life Stress Exposure is a Biobehavioral Target for Predicting Recovery on Antidepressants**
  Goldstein, A., Korgaonkar, M. S., Green, E., Suppes, T., Schatzberg, A., Hastie, T., Nemeroff, C., Williams, L.
  NATURE PUBLISHING GROUP.2016: S373

- **Resting-State Functional Connectivity Dysfunction in Anhedonia as a Transdiagnostic Process: An RDoC Investigation**
  Samara, Z., Goldstein-Piekarski, A. N., Suppes, T., Yesavage, J., Williams, L.
  NATURE PUBLISHING GROUP.2016: S503

- **Human amygdala engagement moderated by early life stress exposure is a biobehavioral target for predicting recovery on antidepressants** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Goldstein-Piekarski, A. N., Korgaonkar, M. S., Green, E., Suppes, T., Schatzberg, A. F., Hastie, T., Nemeroff, C. B., Williams, L. M.
  2016; 113 (42): 11955-11960

- **A Genetic Polymorphism of the Human Dopamine Transporter Determines the Impact of Sleep Deprivation on Brain Responses to Rewards and Punishments** *JOURNAL OF COGNITIVE NEUROSCIENCE*
  Greer, S. M., Goldstein, A. N., Knutson, B., Walker, M. P.
  2016; 28 (6): 803-810

- **Brain Morphology Determines Female-specific Vulnerability to the Anxiogenic Impact of Sleep Loss**
  Goldstein-Piekarski, A. M., Greer, S. M., Saletin, J. M., Williams, L. M., Walker, M. P.
  ELSEVIER SCIENCE INC.2016: 409S

- **Developing a clinical translational neuroscience taxonomy for anxiety and mood disorder: protocol for the baseline-follow up Research domain criteria Anxiety and Depression ("RAD") project** *BMC PSYCHIATRY*
  Williams, L. M., Goldstein-Piekarski, A. N., Chowdhry, N., Grisanzio, K. A., Haug, N. A., Samara, Z., Etkin, A., O'Hara, R., Schatzberg, A. F., Suppes, T., Yesavage, J.
  2016; 16

- **Human Hippocampal Structure: A Novel Biomarker Predicting Mnemonic Vulnerability to, and Recovery from, Sleep Deprivation** *JOURNAL OF NEUROSCIENCE*
  Saletin, J. M., Goldstein-Piekarski, A. N., Greer, S. M., Stark, S., Stark, C. E., Walker, M. P.
  2016; 36 (8): 2355-2363

- **Developing a clinical translational neuroscience taxonomy for anxiety and mood disorder: protocol for the baseline-follow up Research domain criteria Anxiety and Depression ("RAD") project.** *BMC psychiatry*
  Williams, L. M., Goldstein-Piekarski, A. N., Chowdhry, N., Grisanzio, K. A., Haug, N. A., Samara, Z., Etkin, A., O'Hara, R., Schatzberg, A. F., Suppes, T., Yesavage, J.
  2016; 16 (1): 68-?

- **A trans-diagnostic review of anxiety disorder comorbidity and the impact of multiple exclusion criteria on studying clinical outcomes in anxiety disorders.** *Translational psychiatry*
  Goldstein-Piekarski, A. N., Williams, L. M., Humphreys, K.
  2016; 6 (6)

- **Resting State Functional Connectivity is a Differential Predictor of Treatment Outcomes in Major Depressive Disorder**
  Goldstein-Piekarski, A. N., Staveland, B., Korgaonkar, M. S., Williams, L. M.
  NATURE PUBLISHING GROUP.2015: S336–S337

- **Amygdala Reactivity to Emotional Faces in the Prediction of General and Medication-Specific Responses to Antidepressant Treatment in the Randomized iSPOT-D Trial** *NEUROPSYCHOPHARMACOLOGY*
  Williams, L. M., Korgaonkar, M. S., Song, Y. C., Paton, R., Eagles, S., Goldstein-Piekarski, A., Grieve, S. M., Harris, A. W., Usherwood, T., Etkin, A.
  2015; 40 (10): 2398-2408

- **Sleep Deprivation Impairs the Human Central and Peripheral Nervous System Discrimination of Social Threat.** *journal of neuroscience*
  Goldstein-Piekarski, A. N., Greer, S. M., Saletin, J. M., Walker, M. P.
  2015; 35 (28): 10135-10145

- **Personalizing the Treatment of Depression: Emotional Reactivity and Early Life Stress Predict Antidepressant Outcomes**
  Goldstein-Piekarski, A. N., Yesavage, J., Schatzberg, A., Etkin, A., O'hara, R., Suppes, T., Korgaonkar, M., Williams, L.
  ELSEVIER SCIENCE INC.2015

- **The International Study to Predict Optimized Treatment in Depression (iSPOT-D): Outcomes from the acute phase of antidepressant treatment.** *Journal of psychiatric research*
  Saveanu, R., Etkin, A., Duchemin, A., Goldstein-Piekarski, A., Gyurak, A., DeBattista, C., Schatzberg, A. F., Sood, S., Day, C. V., Palmer, D. M., Rekshan, W. R., Gordon, E., Rush, et al
  2015; 61: 1-12

- **Corticotrophin-releasing Hormone Genotype Interacts with Pre-treatment Anxiety Status and Amygdala Reactivity to Predict Treatment Outcomes in Major Depressive Disorder**
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