





Leanne Williams

Vincent V.C. Woo Professor, Professor of Psychiatry and Behavioral Sciences (Major Laboratories and Clinical Translational Neurosciences Incubator) and, by courtesy, of Psychology

 NIH Biosketch available Online

 Curriculum Vitae available Online

CONTACT INFORMATION

• Alternate Contact

Hosna Omarzad - Executive Director

Email homarzad@stanford.edu

Bio

BIO

Dr. Williams is the founding Director of the Stanford Center for Precision Mental Health and Wellness. The Center connects researchers across the campus to advance high definition imaging biotypes for mental health, sensor technology, machine learning approaches, targeted therapeutics and the world's first biotype-guided trials.

Within her Center, Dr. Williams' leads the PanLab for Precision Psychiatry and Translational Neuroscience. The PanLab has developed a radical new way to understand and treat mental health disorders based on a personalized approach to neuroscience. Dr. Williams also leads department-wide initiatives in precision mental health as Associate Chair of Translational Neuroscience. She has a joint position at the Palo Alto VA Mental Illness Research, Education and Clinical Center where she is Director of Education and Precision Medicine.

After first graduating Dr. Williams worked with patients experiencing serious mental disorders and who had been hospitalized for many years. This experience transformed the trajectory of her career. She went on to complete her PhD in 1996 with a British Council scholarship for study at Oxford University. She joined the Stanford faculty as a Professor of Psychiatry and Behavioral Sciences in 2013. Prior to this time, she was foundation Professor of Cognitive Neuropsychiatry at the Sydney Medical School and Director of the interdisciplinary Sydney Brain Dynamics Center for 12 years.

Her translational programs integrate advanced neuroimaging, technology and digital innovation to transform the way we detect mental disorders, predict mental states, tailor interventions and promote wellness. Data-driven computational approaches are used to refine this transformative approach. Her experience is that a neuroscience-informed model empowers each person with an understanding of their own brain function and can reduce stigma. Her research forms the foundation of the first patented taxonomy for depression and anxiety that quantifies brain circuits for diagnostic precision and prediction. She has contributed over 400 scientific papers to the field.

ACADEMIC APPOINTMENTS

- Professor, Psychiatry and Behavioral Sciences
- Professor (By courtesy), Psychology
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford Center for Precision Mental Health and Wellness, (2018- present)
- Director of Education and Precision Medicine, VA Palo Alto Sierra-Pacific MIRECC, (2020- present)
- Associate Chair, Translational Neuroscience, Psychiatry and Behavioral Sciences, Stanford University, (2018- present)
- Associate Chair, Research Strategy, Psychiatry and Behavioral Sciences, Stanford University, (2016-2018)
- Chair, Steering Committee, Major Laboratories and Clinical Translational Neurosciences Incubator, Psychiatry and Behavioral Sciences, Stanford University, (2015-2018)
- Director of PTSD Education and Dissemination, VA Palo Alto Sierra-Pacific MIRECC, (2013-2019)

HONORS AND AWARDS

- Fellow, American College of Neuropsychopharmacology (2017)
- Chairman's Award for Advancing Science, Stanford University (2016)
- Ernst Strüngmann Award: "Schizophrenia evolution and synthesis", Ernst Strüngmann Institute for Neuroscience in Cooperation with Max Planck Institute (2012)
- Presidential Award, American Psychosomatic Society (2008)
- Senior Biomedical Research Fellowship, Pfizer Foundation (2004)
- Young Investigator Award, International Schizophrenia Congress (2001)
- Senior Scientist Award, 10th Biennial Winter Workshop on Schizophrenia (2000)
- Research Award for advanced study at the Institute of Psychiatry London, Wellcome Trust-Ramaciotti Foundation (1998)
- Outstanding Postgraduate Lecturer of the Year, University of Sydney (1997)
- Postgraduate scholarship for Oxford University, British Council (1991)
- Australian Postgraduate Research Award, Australian federal government (1990)
- Prize for Top Honors Research Thesis, Australian Psychological Society (1990)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scientific Advisory Board, One Mind Psyberguide, of the One Mind Institute (2015 - present)
- Program Chair, 2021 Society for Biological Psychiatry Annual Meeting (2019 - present)
- Member, Global Future Council on Technologies for Mental Health - World Economic Forum (2019 - present)
- Member, American College for Neuropsychopharmacology (2012 - present)
- Member, Society for Biological Psychiatry (2009 - present)
- Member, Society for Biological Psychiatry Women's Leadership Group (2016 - present)
- Editorial Board, Depression and Anxiety (Wiley-Blackwell) (2018 - present)
- Editorial Board, Network Neuroscience (MIT Press) (2017 - present)
- Editorial Board, Personalized Medicine for Psychiatry (Elsevier) (2016 - present)
- Faculty member, Stanford Precision Health and Integrated Diagnostics Center (PHIND) (2018 - present)
- Faculty member, Stanford Neurosciences Institute (2016 - present)

COMMUNITY AND INTERNATIONAL WORK

- Brain Research and Integrative Neuroscience Network: BRAINnet, www.BRAINnet.net

PATENTS

- Leanne Williams. "United States Patent 16/368,774 Systems and Methods for Detecting Complex Networks in MRI Image Data", Jul 7, 2020
- Leanne Williams. "United States Patent 16/921,388 Systems and Methods for Detecting Complex Networks in MRI Image Data", Jul 31, 2018

LINKS

- Stanford Center for Precision Mental Health and Wellness (PMHW): <http://med.stanford.edu/pmhw.html>
- "Brain Waves" article in Stanford Medicine Magazine: <http://stanmed.stanford.edu/2016winter/brain-waves.html>
- "Doctors can predict if antidepressants will work for you" in Time Magazine: <http://time.com/4525613/antidepressants-depression-stress/>
- "Will antidepressants work for you?" in Huffington Post: http://www.huffingtonpost.com/entry/antidepressants-effective-test_us_5805319ae4b0dd54ce3485cc
- "Researchers predict with high accuracy if antidepressants will help" in Stanford News: <http://med.stanford.edu/news/all-news/2016/10/technique-can-predict-if-antidepressants-will-help.html>
- "A game changer for the treatment of depression" in Stanford Medicine SCOPE: <http://scopeblog.stanford.edu/2016/10/11/a-game-changer-for-the-treatment-of-depression/>
- "A new approach to mental health" podcast: <http://med.stanford.edu/news/all-news/one-to-one/2016/will-antidepressants-help-a-new-approach-to-mental-health.html>
- "Predicting the usefulness of antidepressants" in NIH News: <https://www.nih.gov/news-events/news-releases/predicting-usefulness-antidepressants>
- "New biomarkers take the guesswork out of finding the right antidepressant": <https://www.researchgate.net/blog/post/new-biomarkers-take-the-guesswork-out-of-finding-the-right-antidepressant>
- "Thanks To You" Flash talk, Medical Center Development 2.12.17: <https://med.stanford.edu/williamslab/Donate.html>
- Top Stanford Medicine SCOPE stories of 2016: <http://scopeblog.stanford.edu/2016/12/30/top-scope-stories-of-2016/>
- "New Stanford study takes steps toward integrating brain imaging into psychiatric care" in Stanford Medicine SCOPE: <http://scopeblog.stanford.edu/2017/10/17/new-stanford-study-takes-steps-toward-integrating-brain-imaging-into-psychiatric-care/>
- "Many different types of anxiety and depression exist, new study finds" in Stanford Medicine SCOPE: <http://scopeblog.stanford.edu/2017/12/04/many-different-types-of-anxiety-and-depression-exist-new-study-finds/>
- Stanford Report: "Beyond the Blues": <http://mailchi.mp/stanford/nobel-presentation-trustees-meet-the-blues?e=2fed604cf9>
- "There may be at least 5 kinds of depression and anxiety" at Futurity.org: <http://www.futurity.org/five-depression-anxiety-types-1624262/>
- "Many different types of anxiety and depression exist, new study finds" at Laboratoryequipment.com: <https://www.laboratoryequipment.com/news/2017/12/many-different-types-anxiety-depression-exist-study-finds>
- "Many different types of anxiety and depression exist, new study finds" at MedicalXPress.com: <https://medicalxpress.com/print431941754.html>
- "Many different types of anxiety and depression exist, new study finds" at MedicalXPress.com: <https://medicalxpress.com/print431941754.html>
- "Many different types of anxiety and depression exist, new study finds" at Neurosciencenews.com: http://neurosciencenews.com/anxiety-depression-types-8138/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+neuroscience-rss-feeds-neuroscience-news+%28Neuroscience+News+Updates%29
- Science feature. "READING AN ANGUISHED BRAIN". Brain scans could help personalize treatment for people who are depressed or suicidal.: <https://www.sciencemag.org/news/2019/08/brain-scans-could-help-personalize-treatment-people-who-are-depressed-or-suicidal>
- "Many different types of anxiety and depression exist, new study finds" at Neurosciencenews.com: http://neurosciencenews.com/anxiety-depression-types-8138/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+neuroscience-rss-feeds-neuroscience-news+%28Neuroscience+News+Updates%29
- "Stanford scientists classify 5 subtypes of anxiety and depression" at ThinkBig.com: http://bigthink.com/21st-century-spirituality/stanford-scientists-classify-5-new-categories-of-anxiety-and-depression?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+bigthink%2Fmain+%28Big+Think+Main%29
- "Protein variant may help predict antidepressant outcomes": <https://www.healio.com/psychiatry/depression/news/online/%7bc01a6214-2c52-4829-9059-550e3e02b9b4%7d/protein-variant-may-help-predict-antidepressant-outcomes>
- "Brain scans and DNA tests personalise mental health care" in Financial Times: <https://www.ft.com/content/54b53350-de73-11e7-a0d4-0944c5f49e46>
- New Stanford Center focuses on Precision Mental Health: <https://scopeblog.stanford.edu/2018/04/12/new-stanford-center-focuses-on-precision-mental-health/>
- "Can precision medicine do for depression what it's done for cancer?" in STAT: <https://www.statnews.com/2018/05/09/precision-medicine-depression-treatment/>
- World Economic Forum 2019: Using big data to diagnose and treat clinical depression faster & more accurately: <https://youtu.be/VD-c79d4OTI>
- "Deeper learning: Machine learning makes new sense of psychiatric symptoms" in Nature Medicine: <https://www.nature.com/articles/s41591-018-0313-2>
- "Brain scans could help personalize treatment for people who are depressed or suicidal" in Science Magazine: <https://www.sciencemag.org/news/2019/08/brain-scans-could-help-personalize-treatment-people-who-are-depressed-or-suicidal>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

A revolution is under way in psychiatry.

We can now understand mental illness as an expression of underlying brain circuit disruptions, shaped by experience and genetics.

Our challenge is to now accelerate the translation of these insights into new models of mental disorder, and improve lives. Right now, mental disorders are our number one cause of ruined lives. At least 1 in 10 of us is affected by these disorders but only a fraction get access to treatment. Fewer still get better after the first treatment they try.

My lab is finding solutions to these problems.

We are defining precision brain circuit types for mood, anxiety and attention disorders. We apply computational models to large amounts of brain imaging, behavior and other data. These precision brain types inform our translational intervention studies. To close the loop, field ready insights are applied in practice.

We are advancing a neuroscience-informed approach to Precision Mental Health for Psychiatry.

1. Neural circuit taxonomy

We have developed a novel brain-based taxonomy for understanding mental disorders. Each person's experience of mental disorder is characterized as an expression of the way in which underlying circuits are disrupted. Our model accounts for how circuit disruptions are shaped by early life experience, by daily function, and by genetic contributions.

2. Advanced computational models

To continually refine our taxonomy, and to discover new types, we use advanced machine-learning approaches. By choosing to use common data elements, we have amassed the largest available databank of integrated imaging, physiological, behavioral and genetic data on a spectrum of mood, anxiety and attention disorders, people at risk of these disorders and healthy people. With these large amounts of data, we are accelerating the discovery of new types, and the detailed mapping between brain circuits, behavior and experience.

3. Mapping human connectomes

In a new human connectome study, we are adding higher resolution imaging of brain connectivity to our brain circuit model. With these connectome data, we extend our taxonomy to the precise mapping of how each person's brain circuits connect and communicate, and how "short circuits" in these connections cause particular types of symptom experiences.

4. Biomarkers to predict treatment

Our lab led the first multi-site international studies to identify imaging and genetic biomarkers that predict the right treatment for the right person at the right time. With these advances, we can double the number of people who recover from depression.

5. Accelerating translation into practice

There is a giant chasm between neuroscience insights and their application in practice to improve lives for people experiencing mental disorders. To close this loop, we lead first-in-nation studies to accelerate the translation of field-ready insights into clinical practice and education.

Because our focus is on changing the way we understand mental disorder, our lab embraces the heterogeneity of these disorders. We focus on the commonly co-occurring experiences of mood, anxiety and attentional disruption in adults and in young people. We also investigate other commonly associated experiences such as substance use.

For more about what motivates us see:

<http://stanmed.stanford.edu/2016winter/brain-waves.html>

<https://youtu.be/cddq5ZIVCcY>

CLINICAL TRIALS

- International Study to Predict Optimised Treatment - in Depression, Recruiting
- Neural Circuit Biomarkers of Transcranial Magnetic Stimulation Study, Recruiting
- Research Aimed at Improving Both Mood and Weight, Recruiting
- Stanford RAD-AT Study (Research on Anxiety and Depression - Anhedonia Treatment), Recruiting
- Stanford Regulating Circuits of the Brain Study - MDMA, Recruiting

PROJECTS

- Precision Health for Depression
- Precision Psychiatry Continuity Clinic Project: Translating neuroscience into mental health care - Stanford (7/25/2017)
- RAD-AT Project: Research on Anxiety and Depression – Anhedonia Treatment - Stanford University School of Medicine and VA Palo Alto
- RAD Project: Neural Dimensions of Threat Reactivity and Regulation for Understanding Anxiety - Stanford University and PAVIR (September 1, 2013 - present)
- ENGAGE Project: Engaging self-regulation targets to understand the mechanisms of behavior change and improve mood and weight outcomes - Stanford University and University of Chicago Illinois (9/30/2015)
- iSPOT-D: International Study to Predict Optimized Treatment - in Depression - Stanford University and collaborating sites
- Family Study: Emotional and Cognitive Brain Function Biomarkers of Risk in First Degree Relatives of Depressed Proband - Stanford University and Sydney Medical School
- GEM Study: General and Emotional Cognition in First Onset Psychosis - Stanford University and Sydney Medical School
- ACTION Study: ADHD Controlled Trial Investigation Of a Non-stimulant - University of Sydney Medical School and Stanford University
- TWIN-E Project: The Twin study in Wellbeing using Integrative Neuroscience of Emotion - Sydney Medical School, Flinders University, Neuroscience Australia and Stanford University
- LIMCA Project: Limbic Maturational Changes in Adolescence and young adulthood
- Brain Connectivity Imaging Markers to Confirm Diagnosis for Bipolar vs. Unipolar Depression - University of Sydney Medical School (3/1/2015)

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Lauren Borchers, Corey Fernandez

Postdoctoral Faculty Sponsor

Sarah Hagerty, Katie Warthen, Xue Zhang

Doctoral Dissertation Co-Advisor (AC)

Olamide Abiose, Paula Munoz Rodriguez

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)
- Psychiatry and Behavioral Science (Fellowship Program)

Publications

PUBLICATIONS

- **Valence processing alterations in SAPAP3 knockout mice and human OCD.** *Journal of psychiatric research*
Kajs, B. L., van Roessel, P. J., Davis, G. L., Williams, L. M., Rodriguez, C. I., Gunaydin, L. A.
2022; 151: 657-666
- **Association of COVID-19 impact with outcomes of an integrated obesity and depression intervention: Posthoc analysis of an RCT.** *Obesity research & clinical practice*
Kringler, E. A., Lv, N., Ronneberg, C. R., Wittels, N., Rosas, L. G., Steinman, L. E., Smyth, J. M., Gerber, B. S., Xiao, L., Venditti, E. M., Ajilore, O. A., Williams, L. M., Ma, et al
2022
- **Targeting the Salience Network: A Mini-Review on a Novel Neuromodulation Approach for Treating Alcohol Use Disorder.** *Frontiers in psychiatry*
Padula, C. B., Tenekedjieva, L., McCalley, D. M., Al-Dasouqi, H., Hanlon, C. A., Williams, L. M., Kozel, F. A., Knutson, B., Durazzo, T. C., Yesavage, J. A., Madore, M. R.
2022; 13: 893833
- **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
- **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
- **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
- **Transdiagnostic Symptom Clusters and Associations With Brain, Behavior, and Daily Function in Mood, Anxiety, and Trauma Disorders** *JAMA PSYCHIATRY*
Grisanzio, K. A., Goldstein-Piekarski, A. N., Wang, M., Ahmed, A. R., Samara, Z., Williams, L. M.
2018; 75 (2): 201-209
- **Identification of biotypes in Attention-Deficit/Hyperactivity Disorder, a report from a randomized, controlled trial.** *Personalized medicine in psychiatry*
Leikauf, J. E., Griffiths, K. R., Saggar, M., Hong, D. S., Clarke, S., Efron, D., Tsang, T. W., Hermens, D. F., Kohn, M. R., Williams, L. M.
2017; 3: 8-17
- **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
- **Precision psychiatry: a neural circuit taxonomy for depression and anxiety** *LANCET PSYCHIATRY*
Williams, L. M.
2016; 3 (5): 472-480
- **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

- **Interactions between BDNF Val66Met polymorphism and early life stress predict brain and arousal pathways to syndromal depression and anxiety** *MOLECULAR PSYCHIATRY*
Gatt, J. M., Nemeroff, C. B., Dobson-Stone, C., Paul, R. H., Bryant, R. A., Schofield, P. R., Gordon, E., Kemp, A. H., Williams, L. M.
2009; 14 (7): 681-695
- **Mode of functional connectivity in amygdala pathways dissociates level of awareness for signals of fear** *JOURNAL OF NEUROSCIENCE*
Williams, L. M., Das, P., Liddell, B. J., Kemp, A. H., Rennie, C. J., Gordon, E.
2006; 26 (36): 9264-9271
- **Dysregulation of arousal and amygdala-prefrontal systems in paranoid schizophrenia** *AMERICAN JOURNAL OF PSYCHIATRY*
Williams, L. M., Das, P., Harris, A. W., Liddell, B. B., Brammer, M. J., Olivieri, G., Skerrett, D., Phillips, M. L., David, A. S., Peduto, A., Gordon, E.
2004; 161 (3): 480-489
- **TWIN-10: protocol for a 10-year longitudinal twin study of the neuroscience of mental well-being and resilience.** *BMJ open*
Park, H. R., Williams, L. M., Turner, R. M., Gatt, J. M.
2022; 12 (7): e058918
- **Intrinsic Functional Connectivity in the Default Mode Network Differentiates the Combined and Inattentive Attention Deficit Hyperactivity Disorder Types.** *Frontiers in human neuroscience*
Saad, J. F., Griffiths, K. R., Kohn, M. R., Braund, T. A., Clarke, S., Williams, L. M., Korgaonkar, M. S.
2022; 16: 859538
- **Mapping Brain Circuit Function to Symptoms and Behavioral Dimensions of Depression and Anxiety**
Williams, L.
ELSEVIER SCIENCE INC.2022: S52
- **Acute Ketamine Modulates Cognitive Control Network Activity During Cognitive Inhibition: Evidence From a Mechanistic Trial**
Zhang, X., Hack, L., Brawer, J., Gray, N., Heifets, B., Suppes, T., van Roessel, P., Rodriguez, C., Knutson, B., Williams, L.
ELSEVIER SCIENCE INC.2022: S225
- **Deconstructing Ketamine-Induced Changes in Cortisol and Dissociative and Affective States in a Controlled Mechanistic Study**
Hack, L. M., Zhang, X., Brawer, J., Gray, N., Heifets, B., Suppes, T., van Roessel, P., Rodriguez, C., Knutson, B., Williams, L.
ELSEVIER SCIENCE INC.2022: S178-S179
- **Reduced Stability of Dynamic Functional Connectivity Across and Within Neural Circuits is Associated With Lower Effort-Related Behavioral Drive in a Transdiagnostic Sample of Depression and Anxiety**
Warthen, K., Keller, A., Williams, L.
ELSEVIER SCIENCE INC.2022: S227
- **Cross-trial prediction of depression remission using problem-solving therapy: A machine learning approach.** *Journal of affective disorders*
Kannampallil, T., Dai, R., Lv, N., Xiao, L., Lu, C., Ajilore, O. A., Snowden, M. B., Venditti, E. M., Williams, L. M., Kringle, E. A., Ma, J.
2022
- **Grey matter covariation and the role of emotion reappraisal in mental wellbeing and resilience after early life stress exposure.** *Translational psychiatry*
Park, H. R., Quide, Y., Schofield, P. R., Williams, L. M., Gatt, J. M.
2022; 12 (1): 85
- **Negative association between anterior insula activation and resilience during sustained attention: an fMRI twin study** *PSYCHOLOGICAL MEDICINE*
Montalto, A., Park, H. P., Williams, L. M., Korgaonkar, M. S., Chilver, M. R., Jamshidi, J., Schofield, P. R., Gatt, J. M.
2022
- **Moral Injury, Traumatic Stress, and Threats to Core Human Needs in Health-Care Workers: The COVID-19 Pandemic as a Dehumanizing Experience** *CLINICAL PSYCHOLOGICAL SCIENCE*
Hagerty, S. L., Williams, L. M.
2022
- **Attention enhances category representations across the brain with strengthened residual correlations to ventral temporal cortex.** *NeuroImage*
Keller, A. S., Jagadeesh, A., Bugatus, L., Williams, L. M., Grill-Spector, K.
2022: 118900

- **Spatial attention impairments are characterized by specific electroencephalographic correlates and partially mediate the association between early life stress and anxiety (Dec, 10.3758/s13415-021-00963-0, 2021) *COGNITIVE AFFECTIVE & BEHAVIORAL NEUROSCIENCE***
Keller, A. S., Ling, R., Williams, L. M.
2021
- **Neural correlates of emotional processing in panic disorder. *NeuroImage. Clinical***
Korgaonkar, M. S., Tran, J., Felmingham, K. L., Williams, L. M., Bryant, R. A.
2021; 32: 102902
- **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.
SPRINGER NATURE.2021: 281
- **Survivors of SARS-CoV-2 Infection Show Neuropsychiatric Sequelae Measured by Surveys, Neurocognitive Testing, and Magnetic Resonance Imaging: Preliminary Results**
Hack, L., Brawer, J., Zhang, X., Wintermark, M., Jiang, B., Stetz, P., Yesavage, J., Grant, P., Bonilla, H., Subramanian, A., Williams, L.
SPRINGER NATURE.2021: 205-206
- **Toward Precision Characterization of Dimensions of Threat Response Pathology in Depression and Anxiety: Testing a Theoretical Model That Integrates Circuits, Symptoms and Quality of Life**
Hagerty, S., Zhang, X., Tozzi, L., Williams, L.
SPRINGER NATURE.2021: 516-517
- **Mapping Dimensions of Neural Circuits to Symptoms, Behaviors and Treatments Across Mood and Anxiety Disorders**
Williams, L.
SPRINGER NATURE.2021: 42
- **Spatial attention impairments are characterized by specific electro-encephalographic correlates and partially mediate the association between early life stress and anxiety *COGNITIVE AFFECTIVE & BEHAVIORAL NEUROSCIENCE***
Keller, A. S., Ling, R., Williams, L. M.
2021
- **Emotional face processing correlates with depression/anxiety symptoms but not wellbeing in non-clinical adults: An event-related potential study. *Journal of psychiatric research***
Chilver, M. R., Park, H. R., Schofield, P. R., Clark, C. R., Williams, L. M., Gatt, J. M.
2021; 145: 18-26
- **Convergence, preliminary findings and future directions across the four human connectome projects investigating mood and anxiety disorders. *NeuroImage***
Tozzi, L., Anene, E. T., Gotlib, I. H., Wintermark, M., Kerr, A. B., Wu, H., Seok, D., Narr, K. L., Sheline, Y. I., Whitfield-Gabrieli, S., Williams, L. M.
2021: 118694
- **Dissecting the Shared Genetic Architecture of Suicide Attempt, Psychiatric Disorders, and Known Risk Factors. *Biological psychiatry***
Mullins, N., Kang, J., Campos, A. I., Coleman, J. R., Edwards, A. C., Galfalvy, H., Levey, D. F., Lori, A., Shabalin, A., Starnawska, A., Su, M., Watson, H. J., Adams, et al
2021
- **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
- **Greater baseline connectivity of the salience and negative affect circuits are associated with natural improvements in anxiety over time in untreated participants. *Journal of affective disorders***
Holt-Gosselin, B., Keller, A. S., Chesnut, M., Ling, R., Grisanzio, K. A., Williams, L. M.
2021; 295: 366-376
- **Cognitive and Executive Contributions to Trail-Making Task Performance on Adolescents With and Without Attention Deficit Hyperactivity Disorder. *Journal of attention disorders***

Harvie, G., Braund, T. A., Kohn, M. R., Korgaonkar, M. S., Clarke, S., Williams, L. M., Griffiths, K. R.
2021: 10870547211036743

- **Associations between mental wellbeing and fMRI neural bases underlying responses to positive emotion in a twin sample** *PSYCHOLOGICAL MEDICINE*
Park, H. P., Chilver, M. R., Montalto, A., Jamshidi, J., Schofield, P. R., Williams, L. M., Gatt, J. M.
2021
- **Corrigendum to 'The heritability of mental health and wellbeing defined using COMPAS-W, a new composite measure of wellbeing': Psychiatry Research, 219, (2014), 204-213, 10.1016/j.psychres.2014.04.033.** *Psychiatry research*
Gatt, J. M., Burton, K. L., Schofield, P. R., Bryant, R. A., Williams, L. M.
2021; 304: 114141
- **Coping Strategies, Neural Structure, and Depression and Anxiety During the COVID-19 Pandemic: A Longitudinal Study in a Naturalistic Sample Spanning Clinical Diagnoses and Subclinical Symptoms.** *Biological psychiatry global open science*
Holt-Gosselin, B., Tozzi, L., Ramirez, C. A., Gotlib, I. H., Williams, L. M.
2021
- **THE ROLE OF NEURAL REWARD EXPECTANCY AND VALUATION IN READINESS TO CHANGE AMONG TREATMENT SEEKING VETERANS WITH ALCOHOL USE DISORDER: IMPLICATIONS FOR TREATMENT**
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PRESENTATIONS

- Practical biomarkers for depression: Findings from the iSPOT-D international prediction study and their translation to the clinic - Stanford Psychiatry Grand Rounds (October 25, 2012)
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