

# LEANNE WILLIAMS, Ph.D.

Psychiatry and Behavioral Sciences  
Stanford School of Medicine  
and  
VA Palo Alto, Sierra-Pacific MIRECC

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## EDUCATION

1987 B.A., Clinical Psychology  
University of Queensland, Australia

1990. B.A., Psychology Honors year (Class I)  
University of New England, Australia

1996 Ph.D., Cognitive Neuroscience  
conferred by University of New England  
PhD undertaken at Oxford University, on a British Council  
scholarship. Dissertation title: "The construct of schizophrenia: A  
continuum perspective"

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## ACADEMIC APPOINTMENTS

May 2013 - present Professor (Research), Psychiatry and Behavioral Sciences  
Stanford University School of Medicine (tenured)

February 2013 - present Director of PTSD Education and Dissemination,  
VA Palo Alto (Sierra-Pacific MIRECC)

Feb 2013 - April 2013 Acting Professor, Psychiatry and Behavioral Sciences  
Stanford University School of Medicine

April 2011 - Jan 2013 Visiting Professor, Psychiatry and Behavioral Sciences  
Stanford University School of Medicine

Jan 2007 - Jan 2013 Foundation Professor of Cognitive Neuropsychiatry  
University of Sydney Medical School, Sydney, Australia

Sept 2004 - Dec 2006 Associate Professor (by Dean's appointment) (tenured)  
University of Sydney Medical School, Sydney, Australia

Jan 2002 - Sept 2004 Associate Professor, Psychology (tenured)  
University of Sydney, Sydney, Australia

Sept 1999 - Dec 2001 Senior Lecturer, Psychology (tenured)  
University of Sydney, Sydney, Australia

Jan 1998 - Sept 1999 Senior Lecturer, Psychology (contract)  
University of New England, Armidale, Australia

June 1998 - Dec 1998 Visiting Senior Lecturer  
Institute of Psychiatry, London UK

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## RESEARCH LEADERSHIP

September 2018 - present	Associate Chair, Translational Neuroscience, Department of Psychiatry and Behavioral Neurosciences, Stanford University School of Medicine
March 2018 - present	Founding Director of the Stanford Center for Precision Mental Health and Wellness
February 2013 - present	Director, Williams PanLab Precision Psychiatry and Translational Neuroscience Laboratory Department of Psychiatry and Behavioral Neurosciences, Stanford University School of Medicine <a href="http://med.stanford.edu/williamslab.html">http://med.stanford.edu/williamslab.html</a>
September 2016 - August 2018	Associate Chair, Research Strategy, Department of Psychiatry and Behavioral Neurosciences, Stanford University School of Medicine
September 2015 – August 2018	Chair of Steering Committee for the Major Laboratories and Clinical Translational Neurosciences Incubator, Department of Psychiatry and Behavioral Neurosciences, Stanford University School of Medicine
Jan 1 2002 - February 2013	Director, Brain Dynamics Center Westmead Millennium Institute for Medical Research and University of Sydney Medical School <a href="https://www.westmeadinstitute.org.au/about/research-centres/brain-dynamics-centre">https://www.westmeadinstitute.org.au/about/research-centres/brain-dynamics-centre</a>

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## UNIVERSITY LEADERSHIP ACADEMY

2016 - 2017	Selected for the intensive Stanford School of Medicine Leadership Academy. 18-month program with 14 fellow faculty. Completed a special initiative project, executive coaching, monthly leadership workshops and bi-annual School of Medicine retreats.
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## HONORS AND AWARDS

### Post-training

2016	Chairman's Award for Advancing Science, Stanford University Department of Psychiatry and Behavioral Sciences
2012	Ernst Strüngmann Award; "Schizophrenia evolution and synthesis". Invited delegate to inaugural forum, Berlin
2008	Presidential Award. American Psychosomatic Society
2004	Pfizer Foundation Senior Biomedical Research Fellowship (Internationally competitive. 1 to 2 awarded per annum to Associate Professor level researchers to stay in Australia or come back to Australia to build a program of high risk biomedical research not typically funded by federal government agencies)
2003	Australian Museum Eureka UNSW Prize for Science Prize, First Finalist

- 2001 Young Investigator award,  
International Schizophrenia Congress
- 2000 Senior Scientist Award for 10<sup>th</sup> Biennial Winter Workshop on Schizophrenia
- 1998 Wellcome Trust-Ramaciotti Research Award  
(for sabbatical program at the Institute of Psychiatry, London)
- 1997 ‘Outstanding Postgraduate Lecturer of the Year’ award (University of Sydney)

### **Scholarships and Fellowships during training**

- 1991 British Council Postgraduate scholarship,  
for graduate research at Oxford University
- 1990 Australian Psychological Society (APS) Prize for Best BA. Honors Research  
Thesis (national)
- 1990 Australian Postgraduate Research Award  
(federal award for graduate students ranked in the top 1% nationally)

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## **TEACHING AND MENTORING**

### **Courses and Lectures**

- May, 2019 Psychology 234: Topics in Depression, May 9, 2019
- April, 2019 RDoC “Bootcamp” for Psychiatry Career Development Institute, Stanford  
University
- March 2019 PGY4 Residents. “Neuroscience-informed precision psychiatry” (March 7<sup>th</sup> and 21<sup>st</sup>)
- March 2019 Didactic presentation to T32 training fellows in Adult Psychiatry: “RDoC and  
Precision Psychiatry: Developing a brain-based taxonomy for mental disorder”  
(March 14<sup>th</sup>)
- 2018 Didactic presentations on neuroscience-informed precision psychiatry to PGY4  
Neuropsychiatry Fellows. (October 8<sup>th</sup> and 22<sup>nd</sup>)
- 2017 weekly Weekly case series and neuroscience-informed precision psychiatry teaching  
sessions for residents in Psychiatry Continuity Clinic.
- 2016 - 2017 Medical student undertaking an independent project, and awarded independent  
MedScholar funding (Fall 2016 – Winter 2017)
- August, 2017 K-to-R program (PI, Hong): “Transition from K to R-series research”, August 2017
- August, 2016 Guest mentor to lead a discussion on “Career development and professional topics”  
for the child psychiatry (Reiss) T32 fellowship program
- January, 2016 Didactic presentation to T32 training fellows in Adult Psychiatry: “RDoC and  
Precision Psychiatry: Developing a brain-based taxonomy for mental disorder”.
- December, 2015 Stanford and VA MIRECC webinar - “PTSD Updates” - for Stanford/VA trainees  
and clinicians

November, 2015	PSYC 250 - Methodology of Research in Behavioral Sciences Guest panelist – “Big Data and Psychiatric Research: Limitations and Benefits”.
Fall 2015	PSYC 299. Advisor for graduate neuroscience student who completed an independent reading project which has led to a published review in Journal of Neuroscience Research.
May, 2015	MIRECC educational presentation: “New Directions in Education: Research Domain Criteria, RDoC”
March, 2015	RDoC “Bootcamp” for Psychiatry Career Development Institute, Stanford University
January, 2015	Geriatric Psychiatry Fellow, individual guest lecture, as part of the fellowship program, on “Personalized Neuroscience approaches to cognitive and emotional function across the lifespan”
December, 2014	“NIMH Research Domain Criteria (RDoC) Bootcamp” for faculty and trainees, Stanford Department of Psychiatry and Behavioral Sciences
November, 2014	Stanford and VA MIRECC webinar - “PTSD Updates” - for Stanford/VA trainees and clinicians
November, 2014	PSYC 250 – Methodology of Research in Behavioral Sciences Guest lecture – “NIMH Research Domain Criteria (RDoC)”
June, 2014	National VA MIRECC Fellowship Program. Guest lecture - “Rapidly Translating Biomarkers into Mental Health Clinical Practice”
May, 2014	Didactic I: “Introduction to Human Neuroscience and its Relevance to Clinical Psychology (Part 1) and Didactic II: “Human Neuroscience and the Transdiagnostic Approach to Treating Emotional Disorders (Part 2) to PsyD/PhD students at Palo Alto University and Gronowski Center
2013 - 2015	PSYC199 (Independent Study). Advisor for an undergraduate medical student who completed four quarters of independent study and has subsequently matriculated. (Winter)
2005 - 2012	Coordinated and taught courses in neuroscience to medical students in the graduate medicine program, Years 2 and 3 in semester 2 (equivalent to two quarters), University of Sydney Medical School
2003 - 2005	Developed and coordinated the Cognitive Neuroscience and Neuropsychology Unit. This was a new course that I established. I designed the curriculum, course content, assignments, examination and accompanying practicums. The unit was one semester (two quarters) in total. I coordinated the course and taught 18 lectures per semester for the Year 3 undergraduate Psychology students enrolled in this course (250 students).
2000 - 2002	Lecture and tutorial teaching on the Behavioral Neuroscience Unit, PSYC3024. The unit was one semester (two quarters) in total. I developed the content of the lecture series. I taught a total of 8 lectures and 12 tutorials per semester for Year 3 undergraduate Psychology students (300 students).

- 2000 - 2002           Lecture and tutorial teaching on the Perception, Learning and Neuroscience Unit, PSYC2111.  
The unit was one semester (two quarters) in total. I developed the content of the lecture series and an accompanying tutorial program that was interactive and web-based. I taught a total of 12 lectures and 12 tutorials per semester for Year 2 undergraduate Psychology students (500 students).
- 1999 - 2004           Taught a 4-lecture module within the Introductory Psychology course, for Year 1 undergraduate Psychology students (1600 students).
- 1994 - 1998           Coordinator for the undergraduate Psychology unit "Psychological Assessment". Taught one full semester (equivalent to two quarters) per year. In addition I coordinated and taught a parallel unit by distance, that comprised two x one-week intensive on-campus sessions supported by email and telephone communication with individual students.

### **Dissertation and Defense Committees**

- 2019           Chair of the graduate student defense committee for Ian Eisenberg in Psychology (defense 8.2.2019)
- 2019           Member of the Dissertation committee for graduate student in the Clinical Psychology Program, Palo Alto University, (defense 5.6.2019)
- 2018           Mentor for rotation for graduate student in the Neurosciences Program, Stanford University, LeeAnn Perry
- 2018           Member of the Dissertation committee for graduate student in the Neurosciences Program, Stanford University, Akua Nimarko
- 2016           Chair of the graduate student defense committee for Matthew Sacchet in Neuroscience (defense 5.8.2016)

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### **Research Mentoring**

#### ***Summary***

At Stanford I have mentored 12 post-doctoral fellows, four of whom are MD or MD/PhD and three of whom have already obtained junior faculty level positions. During my previous position on faculty at the University of Sydney, I mentored 11 post-doctoral fellows. In addition I have supervised 34 graduate (PhD) students (30 funded by federal government scholarships awarded to the top 1% of applicants ranked nationally), 4 Doctor of Clinical Psychology (DPsych) and 25 research Honors (equivalent to a Masters dissertation) students. In Australia, there are relatively fewer available post-doctoral fellowships compared to graduate awards.

My PhD students have won 43 prizes, which include best PhD thesis (University of Sydney) for consecutive years during the period I supervised Sydney students. A summary of my primary mentoring roles is provided in the table over the page.

\*Students who are MDs directing clinics, and enrolled on a part-time basis in their PhD research program.

\*\* Recipients of Career Development Awards funded by the Australian government equivalent to K/NRSA.

<b>Post-Doctoral Fellows</b>	<b>Year(s)</b>	<b>My Mentoring Role</b>	<b>Position &amp; Area of Research</b>	<b>Current Position (for former mentees)</b>
Joseph Weilgosz	2018-	Primary Mentor	Ph.D Postdoctoral Fellow MIRECC Fellow	Commenced 9/1/18
Sahar Harati	2018-	Primary Mentor	Postdoctoral Fellow	Commenced 9/1/19
Laura Hack	2018-	Primary Mentor	Research Track MD/PhD MIRECC Fellow	Commenced 8/6/18
Christina Young	2018-	Primary Mentor	Clinical Neuropsychology Post-doctoral Fellow	Commenced 7/2/18
Leonardo Tozzi	2018-	Primary Mentor	MD/PhD Post-doctoral Fellow	Commenced 1/1/18
Adina Fischer	2017-19	Primary Mentor	Research Track MD/PhD T32 Fellow	Commenced 1/10/17
Matthew Sacchet	2016-18	Primary Mentor	Post-doctoral Fellow funded in part by my NIH UH2 project. Received School of Medicine Dean's Fellowship 1/5/17.	Commenced 9/25/16 Transitioned to Research position at Harvard University Sept 2018
Zoe Samara	2015-19	Primary mentor	Post-doctoral Fellow funded by my NIMH RO1 in 2016. Received a Stanford Neurosciences Institute interdisciplinary scholar award that commenced 1/5/17.	Commenced 1/5/16
Tali Ball	2015-18	Primary mentor	T32 Fellow, Adult Psychiatry.	Awarded K23 7/1/18
John Leikauf	2015-18	Primary mentor	T32 Fellow, Child Psychiatry Appointed to Clinical Instructor in Sept. 2017	Promoted to Clinical Asst. Professor Sept 2018
Claudia Padula	2015-16	Primary mentor	VA MIRECC Fellow. Since awarded a Career Development Award (CDA).	Commenced CDA 10/1/16
Erin Green	2015-16	Primary mentor	VA MIRECC Fellow	Clinical Neuropsychologist at John Muir Health
Andrea Goldstein-Piekarski	2014-17	Primary mentor	Post-doctoral Fellow funded by my NIMH RO1. Received an NIH F32 National Research Service Award.	Appointed Faculty Instructor at Stanford and VA MIRECC, 3/1/ 2017. Promoted to Asst. Professor Dec. 2018.
Mayuresh Korgaonkar**	2009-13	Primary mentor	Senior Imaging Scientist	Succeeded me as Director, Brain Dynamics Center, Sydney Medical School. Faculty Associate Professor, University of Sydney.

Justine Gatt**	2005-13	Primary mentor	Postdoctoral Fellow in cognitive neuroscience funded by a fellowship attached to my Australian Research Council funding	Associate Professor faculty, Psychology, University of NSW, Sydney
Pritha Das	2004-07	Primary mentor	Postdoctoral Research Fellow in brain imaging models of schizophrenia funded by Schizophrenia Research Institute (state funding agency)	Senior Research Fellow, Psychiatry, University of Sydney Medical School
Tom Whitford**	2007	Primary mentor	Postdoctoral research fellow funded by my Pfizer Fellowship	2008-11 Postdoctoral Research Fellow (K-award equivalent "CJ Martin Fellowship" from National Health & Medical Research Council, NHMRC), for joint research at Harvard Medical School (with Bob McCarley) and University of Melbourne (with Pat McGorry) 2012-present. Faculty position at University of NSW, Sydney
Andrew Kemp**	2007-09	Primary mentor	Postdoctoral Research Fellow funded by "Peter Doherty Fellowship", National Health & Medical Research Council, NHMRC	Faculty Associate Professor, Psychology, University of Swansea, Wales
Kim Felmingham**	2007-09	Primary mentor	Postdoctoral Research Fellow (funded by "Clinical Training Fellowship", NHMRC)	Faculty Full Professor, Psychology, University of Melbourne
Michael Breakspear	2004-05	Primary mentor	Postdoctoral Research Fellow funded by a fellowship attached to my Australian Research Council funding	Faculty Full Professor, Queensland Medical Research Institute and Psychiatry, University of Queensland
Daniel Hermens	2006-07	Primary mentor	Postdoctoral Research Fellow funded by my Australian Research Council funding	Faculty Associate Professor, University of Sydney Medical School
Tom Farrow	2002	Primary mentor	Postdoctoral Research Fellow funded by his own British Council award	Faculty Senior Lecturer, University of Sheffield, UK
Belinda Liddell**	2006-07	Primary mentor	Postdoctoral Research Associate funded by my Australian Research Council funding	Senior Research Fellow and Deputy Director at the Refugee Trauma and Recovery Program, University of NSW, Sydney
Stacey Kuan	2005-07	Primary mentor	Postdoctoral Research Associate (funded by federal ARC grant)	Research Fellow, University of NSW, Sydney (as of 2012)
<b>MedScholar Students</b>	<b>Year(s)</b>	<b>My Mentoring Role</b>	<b>Position &amp; Area of Research</b>	<b>Current Position (for former mentees)</b>

Chloe O'Connell	2016-17	Primary mentor	Medical scholar awardee	Medical Resident at Stanford
<b>Graduate students (PhD)</b>	<b>Year(s)</b>	<b>My Mentoring Role</b>	<b>Position &amp; Area of Research</b>	<b>Current Position (for former mentees)</b>
Arielle Keller	2017-	Primary advisor	PhD, Stanford Neurosciences program	Commenced 2017
Annie Brennan	2012-17	Primary supervisor till 2014, then co-supervisor due to my move to Stanford	PhD (Brain imaging models of neural circuit disconnection in first onset schizophrenia)	Awarded 7/7/17
Anna Watters	2010-15	Primary supervisor	PhD (Neural markers of risk for depression)	Commenced Postdoctoral fellowship at University of Pennsylvania 6/1/16
Jean Starling, MD*	2007-14	Primary supervisor	PhD (Clinical neuroscience of early onset schizophrenia)	Awarded 7/1/16
Michael Kohn, MD*	2008-16	Primary supervisor	PhD Cognitive outcomes and non-stimulant treatment of ADHD	Awarded 4/27/16
Claire Day	2010-13	Primary supervisor	PhD (Brain-behavior markers of melancholic depression)	Awarded, 12/19/14
Kasia Kozłowska, MD*	2007-12	Primary supervisor	PhD (Developing a cognitive neuroscience model of conversion disorder)	Associate Professor, University of Sydney Medical School and Child and Adolescent Psychiatrist at the Children's Hospital at Westmead, Sydney
Ainslie Hatch	2005-09	Primary supervisor	PhD/DClinPsych combined (Developing a cognitive neuroscience model of anorexia nervosa)	Director of Clinical Sciences, Digital Medicine at Otsuka America Pharmaceutical, Inc., NYC
Donna Palmer	2005-09	Primary supervisor	PhD (Brain imaging and ERP markers of maturation of emotional brain circuits)	Chief Scientific Officer, Brain Resource Limited, Sydney and San Francisco, CA
Kristan Kang	2003-07	Primary supervisor	PhD (An EEG model of ADHD)	Research Fellow, University of NSW, Sydney (as of 2012)
Tom Whitford	2003-07	Primary supervisor	PhD (Structural imaging to track trajectories in first onset schizophrenia)	Postdoctoral Research Fellow (details above)
Belinda Liddell	2002-06	Primary supervisor	PhD (Neuroimaging and electrophysiological profiles of nonconscious emotion processing)	Postdoctoral Research Fellow (details above)



Daniel Hermens	2002-06	Primary supervisor	PhD (Markers of ADHD and stimulant response)	Postdoctoral Research Fellow (details above)
Pamela Marsh	2001-05	Primary supervisor	PhD (Visual scanpaths as an objective marker of emotional dysfunctions in ADHD)	Research Fellow and Lecturer (equiv to Assistant Professor), Macquarie Centre for Cognitive Science, Macquarie University, Sydney
Carmel Loughland	1998-02	Primary supervisor	PhD (Visual scanpaths as an objective marker of emotional dysfunctions in Schizophrenia)	Faculty Associate Professor, School of Medicine and Public Health, University of Newcastle, Australia
Kwang-Hyuk Lee	1998-02	Primary supervisor	PhD (EEG Gamma synchrony in schizophrenia)	Faculty position, University of Sheffield, UK
Melissa Green**	1998-02	Primary supervisor	PhD (A cognitive neuroscience model of emotion biases in delusions)	Faculty Associate Professor, University of NSW, Sydney
Denise Chu	2009-14*	Associate supervisor	PhD (A cognitive neuroscience modl of complex trauma)	Transferred to new advisor due to my move to Stanford
Sandra Graovac	2011-13	Associate supervisor	PhD (EEG Gamma synchrony in first onset schizophrenia)	Transferred to new advisor due to my move to Stanford
Karen Oakley	2011-13	Associate supervisor	PhD (Heritability of anxiety and depression)	Transferred to new advisor due to my move to Stanford
Donald Rowe	2000-04	Associate supervisor	PhD (Biophysical brain modeling)	Clinical Psychologist in private practice
Ilario Lazzaro	2000-04	Associate supervisor	PhD (ERP markers of attentional dysfunction in ADHD)	Clinical Psychologist in private practice
Kaye Horley	2000-04	Associate supervisor	PhD (Visual scanpath markers of emotional dysfunction in social anxiety disorder)	Clinical Psychologist in private practice
Kerri Brown	2000-04	Associate supervisor	PhD (ERP markers of selective attention dysfunction in schizophrenia)	Head of Multidisciplinary Education, NSW Institute of Psychiatry, Sydney
Anthony Harris	1999-03	Associate supervisor	PhD (Relating EEG disruptions to symptoms in first onset schizophrenia)	Associate Professor, Psychiatry, University of Sydney Medical School
Barry Manor	1999-03	Associate supervisor	PhD (Developing a visual scanpath methodology)	Director, Manor Sustainability Consulting Pty Ltd
Kim Felmingham	1999-03	Associate supervisor	PhD (A cognitive neuroscience model of PTSD)	Full Professor (details above)

Albert Haig	1998-02	Associate supervisor	PhD (Developing a methodology for quantifying whole brain EEG Gamma synchrony)	Director of Research, Melbourne College of Divinity
Chris Rennie	1998-02	Associate supervisor	PhD (A neurophysiological brain model tested with EEG/ERP data)	Emeritus Senior Hospital Scientist, Medical Physics, Westmead Hospital and Head of Brain Modeling, Brain Dynamics Center, University of Sydney. Retired 2014.
Homi Bahramali	1998-02	Associate supervisor	PhD (EEG and schizophrenia)	Research Associate, Centre for the Mind, University of Sydney
Michael Breakspear	1998-02	Associate supervisor	PhD (Nonlinear neural systems and schizophrenia)	Full Professor, Queensland Medical Research Institute (details above)
Shameran Slewa-Younan	1998-02	Associate supervisor	PhD (Sex differences in EEG Gamma synchrony in schizophrenia)	Faculty Senior lecturer, University of Western Sydney
Jim Lagopoulos	1995-99	Associate supervisor	PhD (ERPs and cognitive disruption in parkinsons disease)	Faculty Associate Professor in Neuroimaging, Brain & Mind Research Institute, University of Sydney
<b>Graduate students</b> (Doctorate or Masters in Clinical Psychology research dissertation)	<b>Year(s)</b>	<b>My Mentoring Role</b>	<b>Position &amp; Area of Research</b>	<b>Current Position (for former mentees)</b>
Sophie Barkl	2012	Primary supervisor	MClinPsych	Clinical Psychologist, Basten & Associates, Sydney
Anna Sidis	2000-04	Primary supervisor	DClinPsych	Clinical Psychologist, The Brain & Mind Research Institute, University of Sydney
Matthew Symond	2000-04	Primary supervisor	DClinPsych	-
Thomas Arena	2000-04	Primary supervisor	DClinPsych	-
<b>Graduate-level researchers</b>				
Scott Flemning	2017-18	Primary mentor	Masters student researchship	Commenced PhD in Computer Science in Sept 2018
Marie Nagy	2008-10	Primary mentor	Graduate Senior Research Associate funded by my Pfizer Fellowship	Senior Researcher, Choice Magazine (as of 2012)
<b>Honors research students</b>	<b>Year(s)</b>	<b>My Mentoring Role</b>	<b>Position &amp; Area of Research</b>	<b>Current Position (for former mentees)</b>
Andrew Bueno	2018-19	Primary supervisor	Human Biology, Stanford	Commenced 2018-

Stuart Grieve	2006	Primary supervisor	Graduate Medical Program honors research, University of Sydney	Parker Hughes Professor of Diagnostic Radiology, University of Sydney Medical School
Corinne Renneberg	2005	Primary supervisor	Psychology Honors, University of Sydney	-
Josephine D'Agostino	2005	Primary supervisor	Psychology Honors, University of Sydney	-
Nathan Jacobs	2004	Primary supervisor	Psychology Honors, University of Sydney	-
Samira Sidwhani	2004	Primary supervisor	Psychology Honors, University of Sydney	Psychologist, Northern Sydney Psychology Clinic
Donna Palmer	2002	Primary supervisor	Psychology Honors, University of Sydney	Details above
Rebecca Hamilton	2002	Primary supervisor	Psychology Honors, University of Sydney	Won university medal. Project coordinator, United Nations, NYC
A Hodgkinson	2001	Primary supervisor	Psychology Honors, University of Sydney	-
Kristan Kang	2001	Primary supervisor	Psychology Honors, University of Sydney	Details above
Olivia Munn	2001	Primary supervisor	Psychology Honors, University of Sydney	-
Daniel Hermens	2000	Primary supervisor	Psychology Honors, University of Sydney	Details above
Belinda Liddell	2000	Primary supervisor	Psychology Honors	Details above
Jennifer Rathjen	2000	Primary supervisor	Psychology Honors, University of Sydney	Clinical Psychologist in private practice, Sydney
Joanna Maley	1997	Primary supervisor	Psychology Honors, University of New England	-
Margaret Gunter	1997	Primary supervisor	Psychology Honors, University of New England	-
Rita Tropea	1997	Primary supervisor	Psychology Honors	-
Tom McHugh	1997	Primary supervisor	Psychology Honors, University of New England	Clinical Psychologist in private practice
Kim Kilpatrick	1996	Primary supervisor	Psychology Honors, University of New England	Clinical Psychologist in private practice
Jocelyn Barry	1995	Primary supervisor	Psychology Honors, University of New England	-
Melissa Green	1995	Primary supervisor	Psychology Honors, University of New England	Details above
Pamela Marsh	1995	Primary supervisor	Psychology Honors, University of New England	Details above

Carmel Loughland	1994	Primary supervisor	Psychology Honors, University of New England	Details above
Anna Vlasoff	1994	Primary supervisor	Psychology Honors, University of New England	-
Debbie Bayliss	1994	Primary supervisor	Psychology Honors, University of New England	Writer
Richard Kocsis	1994	Primary supervisor	Psychology Honors, University of New England	Forensic Psychologist
Peter Barron	1992	Primary supervisor	Psychology Honors, University of New England	Manager for Bruker Corporation Pty Ltd (as of 2012)

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### **Mentoring contributions to the field**

2012 - present	Mentor, Career Development Institute for Psychiatry
2016	Travel Awardee Mentor, Society of Biological Psychiatry
2014, 2016	Travel Awardee Mentor, American College of Neuropsychopharmacology
2014, 2016 - present	Women's Mentor, American College of Neuropsychopharmacology
2017	Mentor for Early Career faculty on the Stanford Psychiatry and Behavioral Sciences mentorship program

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### **NATIONAL LEADERSHIP, COMMUNITY ENGAGEMENT, INSTITUTIONAL SERVICE**

#### **Fellow of Professional association**

2017 - present	Fellow of the American College of Neuropsychopharmacology
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#### **Membership of Professional associations**

2019 – present	Global Future Council on Technologies for Mental Health - World Economic Forum
2018 - present	Anxiety and Depression Association of America
2013 - present	Society for Biological Psychiatry
2013 - present	American College of Neuropsychopharmacology
2002 - present	Society for Neuroscience
1998 - 2013	Australian Society for Biological Psychiatry
2007 - 2012	American Psychosomatic Society

#### **National Committees**

2016 - present	Member of the Senior Women's Leadership Group of the Society for Biological Psychiatry
2019	Women's Task Force Leader for the American College of Neuropsychopharmacology

- 2014 - 2016           Invited member of the ACNP membership committee that assesses new applications for membership to ACNP
- 2009 - 2013           Member of American Psychosomatic Society panel for assessing the Presidential Paul McLean Award for research integrating emotion and neuroscience

### **Journal Editorial Boards**

- 2017 - present           Editorial Board, *Depression and Anxiety* (Wiley journal)
- 2016 - present           Editorial Board, *Personalized Medicine for Psychiatry* (Elsevier journal)
- 2016 - present           Editorial Board, *Network Science* (MIT Press journal)

### **Advisory Boards and Prize Committees**

- 2019                    Spinoza Prize selection committee (funding scheme directed at individuals at the very top of the research profession)
- 2018 - present           Advisory Board for Laureate Institute for Brain Resource NeuroMAP center grant.
- 2015 - present           Advisory Board, Stanford Center for Cognitive and Neurobiological Imaging
- 2015 - present           Advisory Board, Psyberguide (member of One Mind Institute)
- 2008                    Pfizer Advisory Board for Ziprasidone

### **Faculty Search Committees**

- 2016-2017            Chair of the search committee for a UTL/NTL/MCL faculty position in Computational Neuropsychiatry, Stanford School of Medicine
- 2016                    Chair of the search committee for a UTL/NTL/MCL faculty position in Computational Neuropsychiatry, Stanford School of Medicine
- 2015                    Member of search committee for the new Editor for the *Clinical Psychological Science* journal (chaired by Deanna Barch, Chair of Psychology, Washington University, St Louis)
- 2015                    Member of the search committee for an MCL faculty position in Neuroradiology, Stanford School of Medicine (chaired by Max Wintermark)

### **Grant Panels**

#### ***Federal grant programs***

- 2015                    NIH grant panel member for the Adult Psychopathology and Disorders of Aging Study Scientific Review group (10/22-10/23)
- 2004 - 2014            ARC Discipline Panel Reader (ARC OzReader).  
This role is by invitation from the ARC. It spans all section panels. In this role I read and assessed all grants related to biological psychology, across sections, and the goal was to ensure consistency of review scores.  
In a typical year I would assess 35 applications.
- 2009, 2011            NHMRC grant panel member (Brain Imaging/Psychiatry & Brain Imaging)  
This is membership of a section panel.

## **Grant Reviewer**

### ***Federal grant programs***

2010 - present	Pfizer Neuroscience Grants
1999 - present	Wellcome Trust project grants
1999 - 2014	Australian Research Council; Discovery, Fellowships and linkage grants
1999 - 2014	National Health and Medical Research Council: Project grants, Fellowships
2002, 2004, 2011	UK Medical Research Council grants

### **Ad Hoc Journal Reviewer**

*Nature Neuroscience, Nature Medicine, Archives of General Psychiatry (JAMA Psychiatry), American Journal of Psychiatry, Molecular Psychiatry, Biological Psychiatry, Journal of Psychiatric Research, Neuropsychopharmacology, Journal of Neuroscience, Neuroimage, Human Brain Mapping, Depression and Anxiety, Journal of Psychiatry and Neuroscience, Journal of Clinical and Experimental Neuropsychology, Biological Psychology, Schizophrenia Bulletin, Neuroscience and Biobehavioral Reviews.*

### **Conference Organization**

2019 - present	Program committee, 2021 Society for Biological Psychiatry Annual Meeting
2010	Organizing committee, Australasian Schizophrenia Conference
2006, 2007	Organizing committee, International Organization for Human Brain Mapping, held in Melbourne June 2008.
2006	Organizing committee, Australasian Society for Psychiatric Research
2002 - 2006	Scientific advisory committee, Australasian Society for Psychophysiology conferences.
2002	Conference Convenor, First combined national meeting for Australasian Society for Psychophysiology and Functional Brain Mapping symposium
2001	Scientific advisory committee, Functional Brain Mapping conference, Melbourne
2001	Organizing Committee, 7 <sup>th</sup> Australasian Schizophrenia Conference, Sydney

### **Institutional Service and Activities**

2016 - present	Member of the T32 Training Fellowship Selection Committee for Adult Psychiatry, Psychiatry and Behavioral Sciences
2018	Community Area Steering Group Stanford Long Range Planning
2015 - 2017	Member of Selection Committee for the Neurosciences graduate program, Stanford University School of Medicine
2016	Member of the DSMB for Dr. Sean Mackey's RO1 project.

2014-2016	Member of the Professoriate Appointments & Promotions Committee, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine
2013-2016	Member of Community Engagement Advisory Committee, Psychiatry and Behavioral Sciences, University School of Medicine
2002- 2013	Executive committee, Westmead Millennium Institute for Medical Research (WMI), Sydney
2008-2011	Representative for Psychiatry on the Scientific Review committee for the Human Research Ethics Committee (IRB), WMI and Sydney Medical School.
2009, 2010	Dean's Representative on Promotion panels (to Associate Professor and to Professor), University of Sydney Medical School
2000 - 2003	Graduate selection committee and student coordinator, Psychology, University of Sydney
2000	Associate Postgraduate Coordinator, Psychology, University of Sydney
1999	Deputy Head (Chair) of School, Psychology, University of New England (UNE)
1996 - 1997	Coordinator, Postgraduate Studies and Research sub-committee (UNE)
1994 - 1997	Test library officer, School of Psychology, UNE
1996	Departmental Representative, Faculty of Arts faculty search committee (3), UNE
1994 - 1996	Member of Finances and Resource Allocation sub-committee, UNE
1995	Acting Head (Chair) of School, Psychology, UNE (June and November)
1994	Member of Selection committee for Postgraduate Research Awards, UNE
1992 - 1994	Member of the Teaching and Assessment Sub-committee, School of Psychology, UNE

### **Community Contributions during tenure at Stanford**

2013- ongoing	Established and ongoing researcher-clinician-education partnership with the Gronowski Center, Los Altos, CA
2019	15 <sup>th</sup> Annual Mood Disorders Education Day. "Personalized Treatments for Mood Disorders". July 13, 2019.
2018	14 <sup>th</sup> Annual Mood Disorders Awareness Day, Stanford. "Using Neuroscience in the Pursuit of Precision Medicine". July 14, 2018.
2017	13 <sup>th</sup> Annual Mood Disorders Awareness Day, Stanford. "Neural and Depression Subtype Predictors of Antidepressant Treatment ", August 19
2016	CAMINAR 2 <sup>nd</sup> Mental Health Symposium. "Personalizing treatments for Depression and Anxiety". Filoli Gardens, May 25. (Broadcast live)

- 2015 Stanford Distinguished Career Institute. “Neuroscience and the Paradigm Shift in Psychiatry”, (Chair, Dean Pizzo), April 10
- 2015 11<sup>th</sup> annual Mood Disorders Awareness Day, Stanford. “Personalizing neuroscience for depression ”, August 29

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## MEDIA HIGHLIGHTS

- 2019 Science Magazine, August 20. “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>
- 2019 Nature Medicine, January 7. “Deeper Learning: Machine learning makes new sense of psychiatric symptoms. <https://www.nature.com/articles/s41591-018-0313-2>
- 2018 ResearchGate news, November 16. “Bringing Depression out of Darkness”.  
[https://www.researchgate.net/publication/328955594\\_Leanne\\_Williams\\_Bringing\\_Depression\\_out\\_of\\_the\\_Darkness](https://www.researchgate.net/publication/328955594_Leanne_Williams_Bringing_Depression_out_of_the_Darkness)
- 2018 Stat news, May 9. “Can precision medicine do for depression what it’s done for cancer? It won’t be easy”. <https://www.statnews.com/2018/05/09/precision-medicine-depression-treatment/>
- 2018 Stanford Medicine SCOPE Blog, April 1. “New Stanford center focuses on precision mental health”. <https://scopeblog.stanford.edu/2018/04/12/new-stanford-center-focuses-on-precision-mental-health/>
- 2017 Stanford Medicine SCOPE Blog, December 4. “Many different types of anxiety and depression exist, new study finds”. <http://scopeblog.stanford.edu/2017/12/04/many-different-types-of-anxiety-and-depression-exist-new-study-finds/>  
Picked up by multiple other national news and media forums:  
<https://jamanetwork.altmetric.com/details/29952040/news>
- 2017 Stanford Medicine SCOPE Blog, October 17. “New Stanford study takes steps toward integrating brain imaging into psychiatric care”.  
<http://scopeblog.stanford.edu/2017/10/17/new-stanford-study-takes-steps-toward-integrating-brain-imaging-into-psychiatric-care/>
- 2017 ResearchGate news, April 10. “New biomarkers take the guesswork out of finding the right antidepressant”. <https://www.researchgate.net/blog/post/new-biomarkers-can-help-patients-find-the-right-antidepressant-faster>
- 2016 NIH Research Matters News, November 1. “Predicting the usefulness of antidepressants”. <https://www.nih.gov/news-events/news-releases/predicting-usefulness-antidepressants>
- 2016 Stanford 1:2:1 Podcast, October 11. “Will Antidepressants Help?: A New Approach to Mental Health”. <http://med.stanford.edu/news/all-news/one-to-one/2016/will-antidepressants-help-a-new-approach-to-mental-health.html>
- 2016 Stanford Medicine SCOPE Blog, October 11. “A game-changer for the treatment of depression”. <http://scopeblog.stanford.edu/2016/10/11/a-game-changer-for-the-treatment-of-depression/>



- 2016 Time Magazine, October 10. "Doctors can predict if antidepressants will work for you". <http://time.com/4525613/antidepressants-depression-stress/>. Based on the publication: Goldstein-Piekarski AN, Korgaonkar MS, Green E, Suppes T, Schatzberg AF, Hastie T, Nemeroff CB, Williams LM (2016). 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, 113 (42): 11955-11960.
- 2016 Stanford Medicine news, October 10. "Researchers predict with high accuracy if antidepressants will help". <http://med.stanford.edu/news/all-news/2016/10/technique-can-predict-if-antidepressants-will-help.html>
- 2016 Huffington Post, October 18. "Will antidepressants work for you? There will soon be a test for that". [http://www.huffingtonpost.com/entry/antidepressants-effective-test\\_us\\_5805319ae4b0dd54ce3485cc](http://www.huffingtonpost.com/entry/antidepressants-effective-test_us_5805319ae4b0dd54ce3485cc). Based on the publication: Goldstein-Piekarski AN et al. (2016). 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, 113 (42): 11955-11960.
- 2016 Stanford Medicine Magazine. Full story in Winter issue focused on "Precision Health": "Brain Waves. How neuroscience could determine your mental healthtreatment" <http://stanmed.stanford.edu/2016winter/brain-waves.html>
- 2014 San Francisco Chronicle, August 12. "Robin Williams' death shines light on depression's grip". <http://m.sfgate.com/health/article/Robin-Williams-death-shines-light-on-5684974.php>
- 2013 Los Angeles Times, November 18. "Scientists define brain network behind attention, day-dreaming". <http://www.latimes.com/science/sciencenow/la-sci-sn-brain-network-cognition-20131117-story.html> Based on the publication: Chen AC et al. Causal interactions between fronto-parietal central executive and default-mode networks in humans. PNAS, 2013.
- 2011 Sunday Telegraph, August 14. "School fails quiet girls". <http://www.dailytelegraph.com.au/news/school-fails-quiet-girls/story-e6freuy9-1226114483035>
- 2010 Sydney Morning Herald, February 18. "Computer test catches children with ADHD". [http://newsstore.smh.com.au/apps/viewDocument.ac?page=1&sy=smh&kw=adhd&pb=all\\_ffx&dt=selectRange&dr=6months&so=relevance&sf=text&sf=headline&rc=10&rm=200&sp=nrm&clsPage=1&docID=SMH1002188N5E6CUAMIE#](http://newsstore.smh.com.au/apps/viewDocument.ac?page=1&sy=smh&kw=adhd&pb=all_ffx&dt=selectRange&dr=6months&so=relevance&sf=text&sf=headline&rc=10&rm=200&sp=nrm&clsPage=1&docID=SMH1002188N5E6CUAMIE#)
- 2010 The Age, February 18. "Computer test catches children with ADHD". <http://www.theage.com.au/technology/computer-test-catches-children-with-adhd-20100217-odz2.html>
- 2010 Frontiersin.org, September 24. "Grand challenges in psychosomatic research". Ripu D. Jindal and J. Richard Jennings
- 2009 Australian Associated Press General News, March 17. "FED: Australia leads global study on depression treatments"

- 2009 Sydney Morning Herald Article, March 18. “Drug Response Study Could Keep the Black Dog Down”
- 2007 Good Weekend Magazine Article, March 31. “States of Mind” (in Sydney Morning Herald & the Melbourne Age)
- 2006 Sydney Morning Herald Article, September 14. “The Quest to Unlock the Mysteries of ADHD”
- 2006 Daily Telegraph, Career One Feature Article, May 24. “How Do Our Minds Work”
- 2006 Sun-Herald (Health Report) Article, May 7. “New Hope for the Mentally Ill”
- 2005 Australian, Biotechnology News, March 7. “Schizophrenic Brains out of Synchrony”

### **National Television (Australian)**

- 2012 ABC News. Twins project on emotional wellbeing (May 21)
- 2010 7PM Project (30 June)
- 2010 7PM Project (18 February) <http://7pmproject.com.au/2401.htm>
- 2009 Australian Broadcasting Corporation (ABC) News “400 Aussies wanted for depression test” (April 23)
- 2008 ABC TV ‘Sleek Geeks’ Program (January 24)
- 2007 SBS TV ‘Insight’ Program (March 20)
- 2006 ABC TV ‘Australian Story’ Program “Lover’s Leap” (August 21)
- 2006 ABC TV ‘Catalyst’ Program “Wisdom” (October 5)
- 2001 ABC TV ‘Catalyst’ Program: ‘Emotional brain’ and Emotional Brain and Schizophrenia’ (2 part series)
- 2001 Qantas In Flight segment. Part I of Catalyst program also shown as Qantas in flight Program
- 2000 National ABC TV News Interview on fMRI Schizophrenia Research (June 1)

### ***International articles***

- 2016 Reuters Health News. “Past child abuse may influence adult response to antidepressants” (May 13).
- 2014 News Medical, “Thought Leaders” series: “How do people become depressed? An interview with Anna Watters and Professor Lea Williams” (February 19). <http://www.news-medical.net/news/20140219/How-do-people-become-depressed-An-interview-with-Anna-Watters-and-Professor-Lea-Williams-University-of-Sydney.aspx>
- 2007 Wall Street Journal. “The Upside of Aging”, Sharon Begley (February 16). <http://hpp.beckman.illinois.edu/news/UpsideAgingWSJFeb162007.pdf>

- 2007 Boston Globe “Finally, a study older folks can be happy about” Judy Foreman, 934 words (July 9).
- 2007 St. Petersburg Times “You're not getting older, you're getting happier” Judy Foreman, Special to the Times, 810 words (July 31).
- 2006 Society for Neuroscience News Release. The Mellow Years: New Research Using Brain Scanning Shows More Positive Emotional Stability as Humans Grow Older. (June 13).
- 2006 Science News. Mellow Years: More Positive Emotion as Humans Grow Older. (June 24).
- 2005 Science Magazine. News Section. ‘Sex and the Suffering Brain’, Vol. 308, pp. 1574-1577. (June 10). (Covering my research on sex differences in Williams et al. 2005). *NeuroImage* 28, 618-626).
- 2005 Sydney Morning Herald Weekend News Review “Matter Over Mind” (October 8-9)
- 2005 Sunday Herald Sun, Sunday Telegraph, Sunday Mail, “The Year of Living Fearlessly” Lollie Barr 1246 words (November 6).
- 2004 Sydney Morning Herald “Surf Helps with the Brainwaves” Vanessa Wilson 695 words (March 18).
- 2004 Sydney Morning Herald “They Know What You're Thinking” Deborah Smith 2646 words (April 9).
- 2004 The Age “Science's Mind Games” Deborah Smith 1507 words (April 10).
- 2004 Daily Telegraph, Career One Feature Article “The Brains of the Operation – Truth is out There.” (November 6).
- 2004 Sydney Morning Herald/The Age article “They Know What You're Thinking/Sciences Mind Games” (April 9/10).
- 2001 Sydney Morning Herald. “Once More With Feelings: Smells, Tunes Stored in Brain for Instant Rewind.” (April 2).
- 2001 The Australian. “Gamblers Problem Could Be in The Genes.”(November 28).
- 2001 The Australian. “Gamblers Brain Numb to Danger.”(December 1).
- 2000 Sunday Telegraph Article “Happiness is in The Eyes.” (May 7).
- 2000 Sun Herald article “Crows Feet May Tell Truth on Our Smiles.” (May 7).
- 2000 Sunday Age article “Real Smiles to Crow About.” (May 7).
- 2000 25 UK and European print articles (inc. Times newspaper) on Duchenne Smile Research, (January - March).

1999 The Australian, Higher Education Supplement Article on Eye Movement Research ‘Schizophrenics Don’t See Eye to Eye’, (July 28)

### **Online Video**

2017 - present Williams PanLab Youtube videos on Neuroscience-Informed Precision Psychiatry for mood and anxiety disorders:  
[https://www.youtube.com/channel/UCN8g9b2eCpSRMs6AyY15U3g/videos?disable\\_polymer=1](https://www.youtube.com/channel/UCN8g9b2eCpSRMs6AyY15U3g/videos?disable_polymer=1)

2019 World Economic Forum, Davos. Using big data to diagnose and treat clinical depression faster & more accurately <https://youtu.be/VD-c79d4OTI>

2018 Stanford Big Data in Precision Health Conference: Video of talk on “Precision Mental Health” <https://youtu.be/FNgWE7XFfIE>

2017 Flash Talk for Stanford Medical Center Development “Thank you” day, February <https://med.stanford.edu/williamslab/Donate.html>

### **Radio**

2018 BBC 4. “Futureproofing Mental Health”. Podcast (May 29)

2000 BBC World Service radio interview on Duchenne smile research (January 13)

2007 BBC radio interview on ‘Mellow Years’: Emotional Brain and Aging

### **Exhibits**

2000 Exhibit in Wellcome Wing Project, Science Museum, London on Duchenne research, invited March.

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## **GRANT FUNDING**

### **Current Federal Funding**

#### **As PI**

R01 MH120126 09/10/2019 - 05/31/2024

Role: **PI**

Funder: NIH (NIMH)

Mechanistic circuit markers of transcranial magnetic stimulation outcomes in pharmacoresistant depression

5UH2HL132368-03 09/1/2018 - 09/29/2020

Role: co-PI (Williams and Ma)

Funder: NIH

NIH Science of Behavior Change initiative UH3 phase

Engaging self-regulation targets to understand the mechanisms of behavior change and improve mood and weight outcomes

1 P50 DA042012-01

Role: **Project 4 PI**

Overall Center PI: Karl Deisseroth

Funder: NIDA

09/01/2017 - 08/31/2022

NIDA Research "Center of Excellence" Grant Program (P50)

Overall Center title: Neural circuit dynamics of drug action

Mapping the Influence of Drugs of Abuse on Risk and Reward Circuits

U01MH109985 07/01/2017 - 06/30/2021  
Role: **PI**  
Funder: NIH (Human Connectome Project)  
Mapping connectomes for disordered emotional states

*As co-I*

R01MH105461-01A1 09/01/2015 - 08/31/2020  
Role: **Co-Investigator** (PI: Rodriguez, Stanford)  
Funder: NIH (NIMH)  
NMDAR Modulation As A Therapeutic Target and Probe of Neural Dysfunction in OCD  
To determine how NMDA receptor modulation modifies the underlying pathology of OCD to relieve repetitive thoughts and behaviors.

1R33AT009305-01 08/15/2016 - 07/31/2019  
Role: **Co-investigator** (PI: Williams, N)  
Funder: NIH (NCCIH)  
Use of repetitive transcranial magnetic stimulation to augment hypnotic analgesia

Project Grant 1087560\* 03/01/2015 - 02/28/2018  
Role: **Co-Investigator** (PI: Korgaonkar, Sydney Medical School)  
Funder: National Health and Medical Research Council of Australia (NHMRC)\*.  
Brain connectivity imaging markers to confirm diagnosis for Bipolar vs. Unipolar Depression.

**Other Current Funding**

Catalyst for Collaborative Solutions 04/01/2017 - 04/01/2020  
Role: Co-PI (with Bao, PI)  
Funder: Stanford University. Program is focused catalyzing collaborations across Engineering, Medical and Sciences and Humanities.  
Effective, Scalable, and Affordable Strategies for Mental Health

Stanford Neurosciences Institute "Big Ideas" full funding 2016 - 2020  
Role: Collaborator  
Funder: Stanford Neurosciences Institute  
Neurochoice

Translational and Clinical Biomedical Innovation Award 2017 - 2019  
Role: **PI**  
Funder: Stanford School of Medicine Biomedical Innovation program  
Precision mental health: Evaluating biotype-guided interventions for depression

Apple Watch seed grant 2017 - 2019  
Role: **PI**  
Funder: Stanford Center for Digital Health  
Stop watch: Reducing hyperactivity and supporting attention for youth with ADHD

**Previous NIH Funding**

1UH2AG052163-01 09/01/2015 - 08/31/2019  
Role: **co-PI** (Williams and Ma, Palo Alto Medical Foundation)  
Funder: NIH.  
Competitive renewal for the UH3 phase awarded 09/01/2018.  
Engaging self-regulation targets to understand the mechanisms of behavior change and improve mood and weight outcomes

An integration of human neuroscience and behavioral science, in response to the NIH Commons Science of Behavior Change initiative. A 2-phased project to identify, validate and refine a set of brain imaging and behavioral assays to measure self-regulation targets, and to engage these targets to optimize behavioral treatment of depression comorbid with obesity.

R01 MH101496

09/01/2013 - 08/30/2018

Role: **PI**

Funder: NIH (NIMH)

Neural Dimensions of Threat Reactivity and Regulation for Understanding Anxiety

To examine the RDoC construct of reactivity and regulation of potential threat in a sample of treatment seeking individuals experiencing anxiety symptoms using neuroimaging, symptom and behavioral measures.

### **Previous Other Competitive Federal Funding**

Project Grant 1004822\*

06/30/2011 – 12/31/2014

Role: **PI**

Funder: National Health and Medical Research Council

General and Emotional Cognition in Early Onset Psychosis: GEM Study

Using functional MRI and behavioral measures to identify which young individuals have impairments in emotional and cognitive functions at first onset of psychosis, and which predict clinical outcomes at 6 months.

Project Grant 1008080\*

06/30/2011 – 12/31/2014

Role: **Co-Investigator** (PI: Korgaonkar, University of Sydney)

Funder: National Health and Medical Research Council

Limbic Maturational Changes in Adolescence and Young Adulthood (LIMCA): A Longitudinal Study

Using brain imaging to specify the brain circuitry changes that occur over adolescence, since it is such a peak period for the onset of major disorders of depression, anxiety and psychosis.

Discovery Project DP120104496

03/31/2011 – 03/31/2013

Role: **PI**

Funder: Australian Research Council

Understanding the Emotional Brain in Risk for Depression

To use fMRI and EEG measures of fear circuitry in a longitudinal design to identify which participants at high risk, defined by genetic variants and family history, convert to clinical depression over 12 months.

Center of Excellence 455431\*\*

03/01/2007 – 12/31/2011

Role: **Co-PI**

Funder: National Health and Medical Research Council

Centre of Clinical Research Excellence (CCRE) in Anxiety and Neuroscience

To establish an inter-disciplinary program of clinical neuroscience research to translate findings from animal work to human patients with anxiety – focusing on PTSD - to identify predictors of treatment outcomes.

Linkage LP0883621

07/01/2008 – 12/31/2011

Role: **PI**

Funder: Australian Research Council

Gene-Brain Pathways in Emotional Brain Stability and Instability

A prospective study of a national twin cohort, designed to identify endophenotypes for emotional brain health using self-report, genomic, cognitive, psychophysiological and brain imaging modalities.

Project 457424\*

03/01/2009-06/30/2011

Role: **Co-Investigator** (PI: Kohn)

Funder: National Health and Medical Research Council

ACTION: A Controlled Trial of Non-stimulants in ADHD

Senior Research Fellowship

09/05/2004–05/30/2010

Role: **PI**

Funder: Pfizer Foundation

Missing Links: The Cause and Treatment of Functional Disconnections in Brain Disorders

This is a \$1M fellowship for high-risk biomedical research, awarded to one or two researchers in the country each year and aimed at retaining talented researchers at the Associate Professor level. The focus was on characterizing the brain circuits disconnections that classify and predict treatment outcome in the major psychiatric disorders

Discovery Project DP077394\*

03/01/2007 – 06/30/2010

Role: **PI**

Funder: Australian Research Council

Identifying Risk Factors for Depression: A Cognitive Neuroscience Approach

To assess neurobiological risk factors for depression and associated anxiety, focusing on brain imaging of emotional circuits and their modulation by genetic variants.

Discovery Project DP0452237\*

03/01/2008-06/30/2010

Role: **PI**

Funder: Australian Research Council

Towards a Continuum Model of Orienting and Defense

Linkage Project LP0455104\*

03/01/2007-06/30/2009

Role: **PI**

Funder: Australian Research Council

Development of Integrative Markers of Brain Function

Discovery Project DP0345481\*

03/01/2005-06/30/2007

Role: **PI**

Funder: Australian Research Council

A biosignature for supraliminal and subliminal emotion processing

Linkage Project LP0212048\*

03/01/2004-06/30/2006

Role: Co-I (PI Bryant)

Funder: Australian Research Council

Identifying Malingered Posttraumatic Stress Disorder: Biological Markers for Legal Assessment

Project A00104478\*

03/01/2003-06/30/2005

Role: **PI**

Funder: Australian Research Council

When, Where and How of Emotion Processing

\* In terms of scope and competitiveness, NHMRC Project Grants are the equivalent of NIH R01 grants, and ARC Discovery Project (DP) Grants are the equivalent of NSF grants.

\*\* NHMRC CCRE grants are the equivalent of NIH P50 Center of Excellence grant.

### **Past Clinical Trial Agreement (CTA) Funding**

CTA

Academic PI

09/01/2008 – 02/01/2014

Sponsor: Brain Resource Ltd

<sup>[1]</sup>*International Study to Predict Optimized Treatment for Depression (iSPOT-D).*

A practical trial coupled with neurobiological assessments to identify predictors of treatment response outcomes in major depressive disorder. Standardized measures of behavioral performance, EEG and brain imaging recordings were undertaken pre-treatment and 8-weeks post-treatment, after randomization to one of three antidepressant medications.

Sponsor: Brain Resource Ltd.

*International Study to Predict Optimized Treatment for ADHD (iSPOT-A).*

A practical trial coupled with neurobiological assessments to identify predictors of treatment response in ADHD. Clinical, cognitive, EEG and brain imaging measures were undertaken pre-treatment and following six weeks treatment with stimulant medication in children and adolescents with ADHD.

### Other Previous Funding

Center for Neurobiological Imaging (CNI) Seed Grant  
Stanford University

10/29/2014-03/31/2015

Role: Co-Investigator (PI: Padula, Stanford University)

“Neural mechanisms of reward and emotional brain circuitry underlying alcohol craving in men and women”.

To examine neural correlates of emotion and reward in men and women with alcohol use disorders and provide pilot data for career development award.

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### PATENTS

1. **Williams LM** (2018). Systems and methods for detecting complex networks in MRI image data. US Patent App. 15/997, 631.
2. **Williams LM** (2018). Systems and methods for detecting complex networks in MRI image data. US Patent App. 15/830, 338.

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### BIBLIOGRAPHY

Summary: 291 peer-reviewed articles reporting original research (292 published),  
13 invited reviews/reports/editorials/peer-reviewed commentaries, 11 book chapters (11 published).

#### Peer-Reviewed Articles (292 published)

1. Griffiths KR, Jurigova BG, Leikauf JE, Palmer D, Clarke SD, Tsang TW, Teber ET, Kohn MR, **Williams LM**. (2019). A signature of attention-elicited electrocortical activity distinguishes response from non-response to the non-stimulant atomoxetine in children and adolescents with ADHD. *Journal of Attention Disorders* 23(7): 744-753. DOI: doi: 10.1177/1087054717733044
2. Tozzi L, Goldstein-Piekarski AN, Korgaonkar MS, **Williams LM** (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*. DOI: <https://doi.org/10.1016/j.biopsych.2019.08.005>
3. Goldstein-Piekarski AN, Holt-Gosselin B, O’Hora K, **Williams LM** (2019). Integrating sleep, neuroimaging, and computational approaches for precision psychiatry. *Neuropsychopharmacology*, 1-15. DOI: <https://doi.org/10.1038/s41386-019-0483-8>
4. Hellewell SC, Welton T, Maller JJ, Lyon M, Korgaonkar MS, Koslow SH, **Williams LM**, Rush AJ, Gordon E, Grieve SM (2019). Profound and reproducible patterns of reduced regional gray matter characterize major depressive disorder. *Translational psychiatry* 9 (1), 176. DOI: <https://doi.org/10.1038/s41398-019-0512-8>
5. Watters AJ, Carpenter JS, Harris AWF, Korgaonkar MS, **Williams LM** (2019). Characterizing neurocognitive markers of familial risk for depression using multi-modal imaging, behavioral and self-report measures. *Journal of affective disorders* 253, 336-342. DOI: <https://doi.org/10.1016/j.jad.2019.04.078>
6. Graziano RC, Bruce CE, Paul RH, Korgaonkar MS, **Williams LM** (2019). The effects of bullying in depression on white matter integrity. *Behavioural Brain Research* 363, 149-154. DOI: <https://doi.org/10.1016/j.bbr.2019.01.054>
7. Braund TA, Palmer DM, **Williams LM**, Harris AWF (2019). Dimensions of anxiety in Major depressive disorder and their use in predicting antidepressant treatment outcome: an iSPOT-D report. *Psychological Medicine*, 1-11. DOI: <https://doi.org/10.1017/S0033291719000941>



8. Korgaonkar MS, Erlinger M, Breukelaar IA, Boyce P, Hazell P, Antees C, Foster S, Grieve SM, Gomes L, **Williams LM**, Harris AWF, Mahli GS (2019). Amygdala activation and connectivity to emotional processing distinguishes asymptomatic patients with bipolar disorders and unipolar depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* 4 (4), 361-370. DOI: <https://doi.org/10.1016/j.bpsc.2018.08.012>
9. Kirkanski K, Williams LM, **Gotlib I**. (2019). Heart rate variability as a biomarker of anxious depression response to antidepressant medication: an iSPOT-D report. *Depression and Anxiety* 36 (1), 63-71
10. Braund TA, Palmer DM, **Williams LM**, Harris AWF (2019). Characterizing anxiety in major depressive disorder and its use in predicting antidepressant treatment outcome: An iSPOT-D report. *Australian & New Zealand Journal of Psychiatry*. DOI: <https://doi.org/10.1177/0004867419835933>
11. Lyon M, Welton T, Varda A, Maller JJ, Broadhouse K, Korgaonkar, Koslow S, **Williams LM**, Gordon E, Rush J, Grieve S (2019). Gender-specific structural abnormalities in major depressive disorder revealed by fixel-based analysis. *NeuroImage Clinical*. DOI: <https://doi.org/10.1016/j.nicl.2019.101668>
12. Breukelaar A, **Williams LM**, Antees C, Grieve SM, Foster SL, Gomes L, Korgaonkar MS. (2018). Cognitive ability is associated with changes in the functional organization of the cognitive control brain network. *Human Brain Mapping* 39 (12), 5028-5308. doi: 10.1002/hbm.24342.
13. Hamilton JP, Sacchet MD, Hjørnevik T, Chin FT, Shen B, Kämpe R, Park J, Knutson B, **Williams LM**, Borg, N, Zaharchuk G, Camacho M, Mackey S, Heilig M, Drevets W, Glover G, Gambhir S, Gotlib I (2018). Striatal dopamine deficits predict reductions in striatal functional connectivity in major depression: a concurrent 11 C-raclopride positron emission tomography and functional magnetic resonance imaging investigation. *Translational Psychiatry* 8, article number: 264. DOI: <https://doi.org/10.1038/s41398-018-0316-2>
14. Gatt JM, Burton KLO, Routledge KL, Grasby KL, Korgaonkar MS, Grieve SM, Schofield PR, Harris AWF, Clark CR, **Williams LM**. (2018) A negative association between brainstem pontine grey-matter volume, well-being and resilience in healthy twins. *Journal of Psychiatry and Neuroscience*. 43 (5), 386. 170125. doi: 10.1503/jpn.170125.
15. Griffiths KR, Leikauf J, Tsang TW, Clarke S, Hermens DF, Efron D, **Williams LM**, Kohn MR. (2018). Response inhibition and emotional cognition improved by atomoxetine in children and adolescents with ADHD: The ACTION randomized controlled trial. *Journal of Psychiatric Research* 102, 57-64 (doi: 10.1016/j.jpsychires.2018.03.009).
16. Routledge KM, **Williams LM**, Harris AWF, Schofield PR, Clark CR, Gatt JM. (2018). Genetic correlations between wellbeing, depression and anxiety symptoms and behavioral responses to the emotional faces task in healthy twins. *Psychiatry Research*. (doi: 10.1016/j.psychres.2018.03.042).
17. Grisanzio KA, Goldstein-Piekarski AN, Wang MY, Ahmed APR, Samara Z, **Williams LM**. (2018). Transdiagnostic symptom clusters and associations with brain, behavior and daily function in mood, anxiety and trauma disorders. *JAMA Psychiatry*. 75(2): 201-209; doi:10.1001/jamapsychiatry.2017.3951). PMID: 29197929
18. **Williams LM**, Pines A, Goldstein-Piekarski AN, Rosas LG, Kullar M. et al. (2018). The ENGAGE study: Integrating neuroimaging, virtual reality and smartphone sensing to understand self-regulation for managing depression and obesity in a precision medicine model. *Behavior Research and Therapy*. 101: 58-70; (doi: 10.1016/j.brat.2017.09.012). PMID: 29274893.
19. Pines AR, Sacchet MD, Kullar M, Ma J, **Williams LM**. (2018). Multi-unit relations among neural, self-report, and behavioral correlates of emotion regulation in comorbid depression and obesity. *Scientific Reports* 8 (1), 14032.
20. Goldstein-Piekarski AN, Staveland B, Ball T, Yesavage J, Korgaonkar MS, **Williams LM**. (2018). Intrinsic functional connectivity predicts remission on antidepressants: A randomized-controlled trial to identify clinically applicable imaging biomarkers. *Translational Psychiatry*. 8(57). (doi: 10.1038/s41398-018-0100-3)

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Schizophrenia. *Psychiatric Times*, 17: 46 - 48.

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279. Harris AWF, **Williams LM**, Gordon E, Bahramali H & Slewa-Younan S (1999). Different Psychopathological Models and Quantified EEG in Schizophrenia. *Psychological Medicine*, 29 (5) 1175-1181. PMID:10576309
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283. My role as 2<sup>nd</sup> author reflects the Psychology tradition at the time that Advisor was 2<sup>nd</sup> rather than Last/senior author
284. Kilpatrick KL, & **Williams LM** (1997). Post-Traumatic Stress Disorder in Child Witnesses to Domestic Violence. *American Journal of Orthopsychiatry*, 67: 639 - 644. PMID:9361870
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290. **Williams LM** (1993). Paranormal Belief and its Relationship to Schizotypy. *Australian Parapsychological Review*, 18: 18-20.
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**Other: Invited Reviews, Reports, Editorials and Peer-reviewed Commentaries  
(13 published)**

1. O'Connell C\*, Goldstein-Piekarski AN\*, Nemeroff C, Schatzberg A, Debattista C, Carillo-Roa T, Binder E, Dunlop B, Mayberg H, **Williams LM**. (2018). More Research Needed on the Association Between Genotype and Antidepressant Response: Response to Fabbri et al (vol 175, pg 576). *American Journal of Psychiatry*. 175(7): 685-685.
2. Humphreys KN and **Williams LM** (2018). What can treatment research offer general practice? *The Lancet Psychiatry*, 5(4): 295-297. [http://dx.doi.org/10.1016/S2215-0366\(17\)30512-6](http://dx.doi.org/10.1016/S2215-0366(17)30512-6)
3. **Williams LM**. (2017). Amygdala-guided neurofeedback for major depression. *American Journal of Psychiatry*, 174 (8): 717-718.
4. **Williams LM**. (2017). Getting personalized: Brain scan biomarkers for guiding depression interventions. *American Journal of Psychiatry*, 174(6): 503-505. doi: 10.1176/appi.ajp.2017.17030314
5. Perry L, Goldstein-Piekarski AN, **Williams LM** (2017). Sex differences modulating serotonergic polymorphisms implicated in the mechanistic pathways of risk for depression and related disorders. *Journal of Neuroscience Research*. 95 (1-2): 737-762
6. Day CVA & **Williams LM** (2012). Finding a biosignature for melancholic depression. *Expert Rev. Neurother.*, 12(7), 835-847.
7. Koslow S, **Williams LM** & Gordon E (2010). Personalized medicine for the Brain: a Call for Action. *Molecular Psychiatry*, 15 229-230 PMID:20065956 (commentary)
8. **Williams LM**, Nagy MT, Docherty J & Gordon E (2010). Emotion, Thinking, and Brain Synchrony in Schizophrenia: An Integrative Model. *Mind & Brain, the Journal of Psychiatry*, 1(1), 87-99 (review)
9. **Williams LM**, Tsang TW, Clarke S et al. (2010). An 'Integrative Neuroscience' Perspective on ADHD: Linking Cognition, Emotion, Brain and Genetic Measures with Implications for Clinical Support. *Expert Review of Neurotherapeutics*. 10 (10) 1607–1621. PMID:20925475
10. **Williams LM** (2008). Voxel Based Morphometry in Schizophrenia: Implications for Neurodevelopmental Connectivity Models and Cognition and Affect. *Expert Review of Neurotherapeutics*, 8(7), 1049-1065 PMID:18590476 (review)
11. **Williams LM** & Gordon E. (2007). Dynamic Organization of the Emotional Brain: Responsivity, Stability, and Instability. *Neuroscientist*, 13(4) 349-70 PMID:17644766 (review)
12. Hermens D, Rowe DL, Gordon E & **Williams LM**. (2006). Integrative Neuroscience Approach to Predict ADHD Stimulant Response. *Expert Review of Neurotherapeutics* 6 (5) 753–763 PMID:16734523 (review)
13. **Williams LM**, Lee K-H, Haig A & Gordon E (2003). High-frequency Synchronization in

Schizophrenia: Too Much or Too Little? Behavioral and Brain Sciences, 26(1): 109-110 (commentary).

### **Book chapters (12 published)**

1. **Williams LM.** (2019) Applying a Neural Circuit Taxonomy in Depression and Anxiety for Personalized Psychiatry. In Precision Psychiatry. Elsevier. ISBN: 978-0-12-813176-3 (Copyright date: Oct 31, 2019)
2. Goldstein-Piekarski AN, **Williams LM.** (2019). A neural circuit-based model for depression anchored in a synthesis of insights from functional neuroimaging. In Neurobiology of Depression. Elsevier. DOI: <https://doi.org/10.1016/B978-0-12-813333-0.00021-4>
3. **Williams LM.** (2016) Applying a Neural Circuit Taxonomy in Depression and Anxiety for Personalized Psychiatry. In Precision Psychiatry. Elsevier
4. Padula C, Vanden Bussche AB & **Williams LM.** (2018). Mood Disorders. Military and Veteran Mental Health, 199-223. 10.1007/978-1-4939-7438-2\_14.
5. **Williams, L.M., & Gott, C.** (2013). What dimensions of heterogeneity are relevant for treatment outcome? In: Schizophrenia: Evolution and Synthesis, eds. S. M. Silverstein, B. Moghaddam, and T. Wykes. Strüngmann Forum Reports, vol. 13. Cambridge: The MIT Press.
6. Palmer, D., **Williams, L.** (2013). The Normal Development of the Adolescent Brain. In Kate Steinbeck, Michael Kohn (Eds.), A Clinical Handbook in Adolescent Medicine: A Guide for Health Professionals Who Work with Adolescents and Young Adults, (pp. 15-26). Singapore: World Scientific Publishing.
7. **Williams LM** and Gordon E. (2010). Personalized Medicine and Integrative Neuroscience: Toward Consensus Markers for Disorders of Brain Health In Koslow SH, Gordon E (eds), Integrative Neuroscience and Personalized Medicine Oxford University Press
8. Kohn M, Clark S, **Williams LM** (2010). Personalized Integrative Markers for Attention Deficit/HyperActivity Disorder in Children and Adolescents In Koslow SH, Gordon E (eds), Integrative Neuroscience and Personalized Medicine Oxford University Press
9. **Williams, L.** (2003). Nonconscious perception: the contribution of neuroimaging. In Meares, Nolan (Eds.), The Self in Conversation: volume 2, (pp. 154-163). Australia: Watermark Press.
10. Beech A, **Williams LM** (1997). Investigating Cognitive Processes in Schizotypal Personality and Schizophrenia. In Matthews G (eds.), Cognitive science perspectives on Personality and Emotion. London, Elsevier Science.
11. Claridge G, Mason O, **Williams LM** (1997). Questionnaire measurement of Schizotypy. In Claridge G (eds.), Schizotypy: Implications for Illness and Health. Oxford, Oxford University Press.
12. **Williams LM** & Beech A (1997). Investigations of Cognitive inhibitory processes in Schizotypy and Schizophrenia. In Claridge G (eds.), Schizotypy: Implications for Illness and Health. Oxford, Oxford University Press.

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### **INVITED PRESENTATIONS**

#### *Chronological order*

#### **During training**

- 1992 College Seminar series. Oxford University, Magdalen College, 'Early Visual Processing in Schizophrenia and Schizotypy'. January 16
- 1998 Institute Seminar series: Institute of Psychiatry, London seminar, 'Face Processing in Schizophrenia: An Eye Movement Study'. July 27
- 1999 New England Branch of Australasian Psychological Society presentation, Armidale. 'Why do schizophrenics misinterpret a smile: An eye movement study', July 14.

#### **International and National Keynote presentations**

- 2000 Keynote: Schizophrenia Fellowship of NSW “Real Change or Just Rhetoric? Turning Knowledge into Practice” Symposium. ‘The What, Where and When of Emotion Processing in Schizophrenia’. Masonic Centre, Sydney. May 26
- 2002 Platform Presentation. Australasian Society for Neuropsychology conference, “The Emotional Brain”, May 28.
- 2002 Keynote: Australian and NZ Association of Psychotherapy 11<sup>th</sup> Annual conference. ‘The Emotional Brain; Neuroimaging and Unconscious Perception’. Sydney, August 8
- 2005 Keynote: Australian and New Zealand Association of Psychotherapy Annual Conference. “The Emotional Brain: Nonconscious Perception and Trauma”. Sydney, September 4
- 2006 Keynote: Dalai Lama Mind & Its Potential Conference. “An ‘Integrative Neuroscience of Brain, Mind and Consciousness”. Sydney, September 2
- 2006 Keynote: Australian Association for Cognitive Behavior Therapy National Conference, “The Emotional Brain: Evidence from Cognitive Neuroscience and Implications for Therapy”. Sydney, October 18
- 2008 Presidential Address: An Integrative Framework for Emotional Brain Organization: The Continuum of Wellness and Illness. American Psychosomatic Society. March 8
- 2009 Keynote: International Society for Affective Disorders Conference. “Pathways of Risk for Depression: BDNFVal66Met, Stress and Emotional Brain Systems.” February 28
- 2009 Panel Presentation. Dalai Lama, Mind & Its Potential Conference. ‘Can we Teach Ourselves to Regulate Emotions?’ Sydney, December 3
- 2010 Platform Presentation. Biological Psychiatry Australasia, inaugural meeting. “Psychiatry and the Emotional Brain”, Melbourne, Sept 6.
- 2016 Opening Plenary Presentation. “Childhood Trauma and its Impact on Emotional Brain Circuits, Mood Disorder and Treatment Outcomes” at the inaugural conference of the Missouri Institute of Mental Health conference on Traumatic Stress: New Mechanisms and Treatment. Clayton Plaza Hotel, St Louis, Missouri, March 9.
- 2016 Keynote. “Precision Psychiatry: Toward a Neural Circuit Taxonomy for Mood and Emotion Regulation Circuit Disorders”. International Society for Bipolar disorders., Washington DC. May 5.
- 2016 Plenary Presentation. Society of Biological Psychiatry, “Precision Psychiatry”, Atlanta, May 14.
- 2019 World Economic Forum Annual Meeting, “The future of Precision Psychiatry”, Davos, Switzerland January 22.
- 2019 National VA Advance Training Fellowship Program via VTEL. “NIH Research Domain Criteria”. June 19.

### **Grand Rounds and Invited Colloquia and Panel presentations**

- 1998 Institute seminar series: Maudsley Hospital, London. 'What's in a Smile?: Visual Scanpaths and Facial Affect in Schizophrenia', Institute of Psychiatry, London UK. (during sabbatical at the Institute of Psychiatry), October 28
- 2005 California Institute of Technology (CALTECH), USA. ‘Towards an Integrative Neuroscience of Fear Perception’. June 7
- 2006 Institute seminar series. Wellcome Institute of Cognitive Neurology, ‘Emotional Brain’ Systems: Exploring the Role of Genetics, Constitutional Factors and Awareness. London, UK, June 15
- 2006 University “Jo Wales” seminar series. “The ‘emotional brain’ Its role in the subconscious, wellbeing and the impact of trauma”. James Cook University, Queensland, March 31
- 2007 Westmead Hospital Psychiatry Grand Rounds. “Markers of schizophrenia relevant to the real world”, Sydney, April 12.

- 2009 Columbia University. Psychiatry, special seminar. “Using an ‘Integrative Neuroscience’ to link brain with cognition and clinical outcomes in psychiatry”, Nov 11
- 2010 University of Western Sydney medical school seminar series. “An integrative framework: The emotional brain in wellness and illness”, May 21
- 2009 Prince of Wales Medical Research Institute seminar series. “Identifying Integrative Markers of psychiatric disorder and treatment”, June 12.
- 2010 Stanford University. Psychiatry and Behavioral Sciences. An ‘Integrative Neuroscience for Psychiatry’. Palo Alto, California, October 6
- 2012 Columbia University Cognitive Neuroscience seminar series. “Integrating cognitive neuroscience with treatment prediction designs: First outcomes from iSPOT-D”. New York, June 26
- 2013 National Center for PTSD, VA Menlo Park (hosted by Joe Ruzek, PhD) . “Applied Personalized Neuroscience: Focusing on the Emotional Brain”, Sept 11.
- 2014 Stanford/VA Geriatric Psychiatry and Neuroscience (GPN) Grand Rounds. "A translational neuroscience model for affective disorders across the lifespan", Oct 20.
- 2015 Vanderbilt University. 2014-15 Psychology Colloquium Series. Presented on “A translational neuroscience model: implications for diagnosis and treatment”. April 1-2.
- 2015 Berkeley University. 2015 Clinical Science Colloquium Series. Presented on “ Personalized Neuroscience: Developing a brain-based taxonomy for mental disorder”, November 17.
- 2017 University of Minnesota. Department of Psychiatry Grand Rounds. “Precision Psychiatry: Using human neuroscience insights to guide clinical decisions”, May 3
- 2017 Laureate Institute for Brain Research, Tulsa. William K. Warren Frontiers in Neuroscience conference series keynote. “Neuroscience Informed Precision Psychiatry”, August 7.
- 2018 NIH Science of Behavior Change Steering Committee and External Scientific Panel Meeting. “Engaging Self-Regulation Targets to Understand the Mechanisms of Behavior Change and Improve Mood and Weight Outcomes”. January 10, NIH Bethesda, DC.
- 2018 University of Miami. Department of Psychiatry Grand Rounds. “Neuroscience-informed Precision Psychiatry”. January 17
- 2018 University of California San Francisco. Department of Psychiatry Grand Rounds. “Neuroscience-informed Precision Psychiatry for Mood Disorders”, May 18, San Francisco.
- 2018 Invited (by NIH) panel presentation at the 4th Annual BRAIN Initiative Investigators Meeting. “Quantifying targets for non-invasive network modulation”. April 10, 2018. Bethesda, DC.
- 2018 Invited to present in the NIMH Director’s research-track symposium at the American Psychiatric Association (APA) conference: “Big Data in Mental Health”. Michele Ferrante (Chair). Presentation title: Big Data in Mental Health: Identifying types of depression and anxiety. Symposium co-presenters: Bing Brunton, Justin Taylor, Raquel E. Gur, Alik Widge. May 9, New York City.
- 2018 Invited presentation in the American Society of Neuroradiology (ASNR) 56<sup>th</sup> Annual Meeting and The Foundation of the ASNR Symposium: “Value of Neuroimaging for Psychiatric Disorders”. Presentation title: Psychiatric Disorders: The Human Disconnectome? June 4, 2018, Vancouver Canada.
- 2019 Fortune Brainstorm Healthy Conference, “Where Mental Health Meets Technology”. April 3, San Diego, CA.
- 2019 Stanford Psychiatry and Behavioral Sciences, “Neuroscience and Computation Informed Precision Psychiatry”, Co-presenters John Leikauf and Daniel Rubin. June 20, Stanford CA

**Invited Stanford, institute, training and workshop presentations**

- 2000 Inaugural ‘Matter to Mind’ Conference, Institute of Psychiatry and Maudsley Hospital. Emotion Perception in Schizophrenia: Integrating Central and Autonomic Nervous System Measures, Institute of Psychiatry, London, UK. September 30
- 2001 NIMH workshop, ‘Integrative Neurobiology’, University of Chicago-Illinois Medical Center. “Integrating fMRI and ANS Measures”, Chicago, June 23-30
- 2001 Invited symposium on functional Brain Mapping for psychiatry, Melbourne May 12.
- 2002 Australasian Skeptics’ conference. ‘A Cognitive neuroscience perspective’, Oct. 5
- 2002 Keynote: NSW Clubs ‘Towards a Better Future’ Conference on problem gaming, “Brain imaging and Problem Gambling”, Fairmont Resort, Leura, Blue Mountains, Australia, May 7
- 2004 Queensland Brain Institute. “The cognitive neuroscience of fear systems underlying trauma reactions”. Oct 6
- 2004 Australasian & New Zealand Association of Psychotherapists. “Understanding trauma from a neuroscience perspective”, Sydney, Oct 31
- 2004 Workshop on brain function and individual differences in sleep. Woolcock Institute. “Integrative neuroscience and implications for sleep”. Sydney. Nov. 18
- 2005 Eli-Lilly. ‘A Standardized Approach to Brain Imaging’, Indianapolis, August 16
- 2006 Westmead Hospital Psychotherapy Training program seminar series. “The Emotional Brain: Nonconscious Perception and Trauma”, Sept 3
- 2006 Pfizer Australia fellowship program. “Functional brain markers of schizophrenia and ADHD”, Melbourne, Nov 20
- 2006 Platform. Youth Health Conference (state government funded). “The impact of development on the emotional brain”. Sydney, Nov 15.
- 2006 fMRI Experience Conference. “Using fMRI to understand schizophrenia as a disorder of brain system integration”, Melbourne, June 30.
- 2007 Westmead Hospital Psychotherapy Training program seminar series. “The Emotional Brain and Trauma”, April 26
- 2007 Rivendell Psychiatric Center, Concord Hospital seminar series. “Brain imaging in early schizophrenia”, Sept 4
- 2007 Pfizer Australia fellowship program. “Missing links’: Functional brain markers of schizophrenia”, Sydney, Nov 26
- 2008 Pfizer Australia fellowship program. “Identifying Integrative Markers of psychiatric disorder and treatment”, Sydney, Nov 25
- 2009 Special seminar, hosted by Australian and New Zealand Association of Psychotherapy. “Understanding the emotional brain”. Australian Museum, Sydney, Aug 8
- 2014 Center for Innovation to Implementation forum event. “Personalizing neuroscience in primary care and community settings: Pragmatic trials of depression and anxiety”, May 27
- 2014 VA San Francisco, NCIRE (The Veteran’s Health Research Institute”). Hosted by Tom Neylan, MD). “Personalized Neuroscience”, Jan 21
- 2017 Stanford 3<sup>rd</sup> Annual Innovations in Psychiatry and Behavioral Health: Virtual Reality and Behavior Change. “VR, Brain Circuits and Precision Psychiatry – Targeting Depression”, October 6.
- 2018 Stanford Big Data in Precision Health conference. “Precision Mental Health”. May 24.
- 2018 Stanford Medicine Board of Fellows. “Precision Mental Health”. June 19, 2018.



- 2018 Stanford Catalyst for Collaborative Solutions. “Effective, Scalable, and Affordable Strategies for Mental Health”. May 29, 2018
- 2018 Presentation and Participant in Stanford's Mood Disorders Education Day. In session on “Using Neuroscience in the Pursuit of Precision Medicine. July 14, 2018.
- 2018 Brain Mind Summit presentation. “Envisioning the Brain Mind Clinic Lab of the Future”. Sept. 8, 2018.
- 2018 Second Annual Symposium of Stanford Precision Health for Ethnic and Racial Equity (SPHERE). “Precision Mental Health”. Sept. 20, 2018.
- 2018 Stanford LeadWell Network: Bringing Depression Out of the Dark, Stanford November 15
- 2019 Stanford extends warm welcome to visitors during Family Weekend, February 20. “Empowering Yourself: Knowing Your Own Brain”.  
<https://news.stanford.edu/.../stanford-extends-warm-welcome-visitors-family-weekend/>

### **Invited laboratory seminar presentations**

- 2009 Cornell University. “Using an Integrative Neuroscience to link brain and clinical outcomes in aging and psychiatry disorder, Nov 9
- 2009 Cornell University. Sackler Institute. “Integrative Neuroscience and psychiatry”, Dec 1
- 2011 Stanford University. Research Laboratory for the Study of Behavioral Medicine, Psychiatry and Behavioral Sciences. “A platform for brain health”, June 10
- 2012 Stanford University Psychiatry and Behavioral Sciences Grand Rounds. “Biomarker predictors for treatment response in depression”. October 25
- 2012 Stanford University. Center for Interdisciplinary Brain Sciences Research, Psychiatry and Behavioral Science. "Emotion circuits in children and adolescents; attention, anxiety and treatment prediction", June 5.
- 2014 Center for Innovation to Implementation forum event. “Personalizing neuroscience in primary care and community settings: Pragmatic trials of depression and anxiety”, May 27
- 2014 VA San Francisco, NCIRE (The Veteran’s Health Research Institute”). Hosted by Tom Neylan, MD).“Personalized Neuroscience” , Jan 21
- 2015 Stanford’s Developmental Trauma Special Interest Group (DTSIG). “Childhood trauma and its impact on emotional brain circuits, mood disorder and treatment outcomes”, Aug. 11

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### **PEER-REVIEWED PANEL AND SYMPOSIUM PRESENTATIONS**

#### ***Chronological order***

- 2002 Opening symposium. International Congress of Psychophysiology, ‘Towards an Integrated Model of Orienting and Emotion’. Montreal, July 29
- 2004 Panel presentation. “Data Analysis that Takes More than One Paradigm in the Experimental Design”. 10th Annual Meeting of the Organization for Human Brain Mapping, Brain and Behaviour: Budapest, Hungary, June 13
- 2006 Symposium. Australasian Society for Psychiatric Research (ASPR) Conference. “Integrative Neuroscience and Psychiatry”: Identifying cognitive, affective and brainwave markers of psychiatric disorder, Sydney Dec 8.
- 2006 Symposium. International Neuropsychiatry Association conference. “Functional Connectivity Distinguishes Level of Awareness for Emotionally Significant Stimuli: fMRI and Gamma Synchrony in the Healthy Brain and Psychosis”. Sydney, September 11

- 2006 Symposium. International Neuropsychiatry Association Conference. "Integrating Cognitive and Affective Markers of ADHD". Sydney, September 13
- 2007 Symposium. International Congress on Schizophrenia Research. "Too much or too little?: High frequency neural synchrony in schizophrenia, Colorado Springs, March 28.
- 2009 Panel presentation. American College of Neuropsychopharmacology 48<sup>th</sup> Annual Meeting." The Application of Gene-Brain-Behavior Markers of Emotion in Anxiety, Depression and ADHD, in Panel on 'The Emotional Brain: Integrating Basic Knowledge & Translation into Novel Therapeutic Approaches for Anxiety in Major Depressive Disorder (MDD), Post-traumatic Stress Disorder (PTSD) & Attention Deficit Hyperactivity Disorder (ADHD). December 6
- 2009 Panel presentation. American College of Neuropsychopharmacology 48<sup>th</sup> Annual Meeting. BDNFVal66Met, Stress and Emotional Brain Systems: Pathways in Risk for Depression, in Panel on 'Deciphering the Impact of BDNF V66M'. December 8
- 2010 Symposium. Society for Neuroscience. "Neural Basis of Emotional States", San Diego, November 15
- 2011 Panel presentation. ISSPD. International Society on the Study of Personality Disorders (ISSPD) "Loss of Self Regulation in Borderline Personality Disorder: A Brain Basis in Neural 'Dis-Integration'", Melbourne, March 2.
- 2011 Symposium. American Psychiatric Association. Markers for depression. Presentation on "International Study to Predict Optimized Treatment in Depression: iSPOT-D".
- 2012 Symposium. Society for Biological Psychiatry. "Emotion and cognition in schizophrenia: Integrating psychophysiology, imaging and behavior ". Chair and presenter, with Deanna Barch (Washington U), Paul Fletcher (Cambridge U) and Cameron Carter (UC Davis)
- 2012 Symposium. NCDEU - American Society of Psychopharmacology. "Prefrontal dysfunction in major depression: Preliminary functional magnetic resonance imaging results". Arizona, June 1.
- 2013 Symposium. Society for Biological Psychiatry. "Toward Personalizing Treatment for Depression: New Imaging and Physiological Findings". With Gerry Bruder (Chair, Columbia U), Helen Mayberg (Emory U) and Amit Etkin (Stanford U). May 17
- 2013 Symposium. American Psychiatric Association. "Using biomarkers to select treatments: An illustration from the international study to predict optimized treatment for depression (iSPOT-D)". With Alan Schatzberg (Chair, Stanford U), A. John Rush (Discussant, National U of Singapore), Charles DeBattista (Stanford U), Amit Etkin (Stanford U) and Radu Saveanu (Miami U), May 19.
- 2014 Symposium (Co-Chair). American Psychiatric Association. "Circuits for cognition and emotion predict treatment outcomes in the iSPOT-D study of major depressive disorder". With Alan Schatzberg (Chair, Stanford), Radu Saveanu (Miami U) and Evian Gordon (Brain Resource).
- 2014 Symposium (Chair). Society for Biological Psychiatry. "Dimensions of negative emotional states defined by circuits, genetics and behavior". With Ian Gotlib (co-Chair, Stanford), Brandon Gibb (Binghamton University), Ruben Gur (U Penn) and Bruce Cuthbert, NIMH Director of the RDoC Unit (Discussant). May 10, New York City.
- 2015 Symposium. Society for Biological Psychiatry. "New Findings and Future Outlooks from Studies of Biomarkers for Precision Medicine in Affective Disorders (MDD and Mania)". Martijn Arns (Chair) and Gerard Bruder (Co-Chair) with co-presenters Arns (BrainClinics, Netherlands), Gerard Bruder (Columbia University), Mayuresh Korgaonkar (University of Sydney) and Ulrich Hegerl (University Hospital, Leipzig). Presentation title: Pre-treatment Brain MRI Measures to Identify Individuals Who Will and Will Not Remit During Acute Phase Treatment With Anti-depressant Medications - Results From the iSPOT-D Study (presenter Korgaonkar; senior author Williams). May 14, Toronto Canada.
- 2015 Symposium. Society for Biological Psychiatry. "Stress and the Developing Brain: Pathways to Demise and Resilience". Justine Gatt (Chair) and Cyndi Shannon-Weickert (Co-Chair). Co-presenters Cyndi Shannon Weickert (NeuRA and University of NSW, Sydney), Rhoshel Lenroot ((NeuRA and University of NSW, Sydney) and Kim Felmingham (University of Tasmania).

- Presentation title: Wellbeing and Resilience in the Healthy Twin Brain (presenter, Gatt, senior author, Williams). May 15, Toronto Canada.
- 2015 Symposium. Society for Biological Psychiatry. “Allelic Variation in CRH-R1 SNP’s as Biomarkers for Depression and Anxiety”. Alan Schatzber (Chair) and Ned Kalin (co\_Chair). With co-presenters Ned Kalin (co-Chair, Wisconsin), Alan Schatzberg (Stanford) and David Hsu (Stony Brook); Presentation title: rs110402 Variation Mediates Neural Activation to Emotional Faces and Response to Treatment. May 15, Toronto Canada.
- 2015 Symposium. Anxiety and Depression Association of America. “What Will RDoC Studies of Negative Valence Systems Tell Us About Anxiety and Depression?” John Hettema, MD, PhD and Scott Langenecker, PhD. Co-Presenters. John Hettema (Virginia Commonwealth University), Harold H. Goldsmith, PhD (University of Wisconsin– Madison), Stewart Shankman, PhD (University of Illinois at Chicago, Scott Langenecker, PhD, (University of Illinois at Chicago) and Peter Lang, PhD (University of Florida). Presentation title: “A Translational Model of Negative Emotion States”. Discussant: Holly Garriock, PhD, National Institute of Mental Health. April 11, Miami.
- 2015 Symposium. American Psychological Society, “A Psychological Perspective on the RDoC Initiative”. Benjamin B. Lahey (Chair). Co-Presenters Ben Lahey (University of Chicago), David Zald (Vanderbilt University). Discussant: Uma Vaidyanathan (National Institutes of Mental Health, RDoC Unit). Presentation title: Developing a dimensional neural circuit model of depression and anxiety. May 21, New York.
- 2016 Symposium, Society for Biological Psychiatry, “Neural and Behavioral Correlates of Impaired Emotion Regulation in Mood, Anxiety and Personality Disorders and Their Implications for Treatment”. Presentation title: Emotional Reactivity and Regulation in Proband with Major Depressive Disorder and their Relatives: Implications for Treatment and Disease Risk. May 14, Atlanta
- 2016 Symposium, International Society for Psychoendocrinology (ISPNE). “Stress, Hedonic Processes and Neuroplasticity” Ned Kalin and Aaron Heller (co-Chairs). Co-presenters: Elaine Walker (Emory University), Aaron Heller (Miami University), Alan Schatzberg (Stanford University), Ned Kalin (University of Wisconsin). Presentation title: CRH Genotypes Moderate Neural Circuits, Cognitive Emotional Function and Response to Antidepressants, Sept 10, Miami.
- 2016 Panel presentation. American College of Neuropsychopharmacology 55<sup>th</sup> Annual Meeting. Identifying a reward dysfunction biotype of anhedonia by functional imaging, neurocognition and intervention outcomes, in Panel on ‘Identifying Multimodal Imaging Biomarkers and Treatment Targets for aberrant, Transdiagnostic Behaviors Associated with Abnormal Reward Circuitry Function’. Panel Co-Chairs LM Williams and LM Phillips. Other presenters: R. Kaiser, D. Zald
- 2017 Hot topics presentation. American College of Neuropsychopharmacology 56<sup>th</sup> Annual Meeting. “Clustering Identifies Symptom-Brain-Behavior Subtypes That Cut Across Mood, Anxiety and Trauma Disorders”, December 3, Palm Springs.
- 2018 Symposium, Anxiety and Depression Association of America (ADAA). “Prediction of Treatment Response in Major Depression”. Charlie Nemeroff and Ed Craighead (co-Chairs). Presentation title: Brain, Behavior and Gene Predictors of Antidepressant Treatment Outcomes in an International Personalized Medicine Biomarker Study. April 6, Washington DC.
- 2018 Symposium, Society for Biological Psychiatry (SOBP). “Bayesian Multi-Level Approaches for Integrating Psychiatric Data across Units of Analyses”. Martin Paulus (Chair). Presentation title: Integrating Brain-Behavior Data to Identify Clinically Meaningful Biotypes for Depression and Anxiety. May 12, New York City.
- 2019 Faculty Presentation. University of Illinois Chicago. Neuroscience-informed Behavior Change. May 15, Chicago.

## **PUBLISHED CONFERENCE ABSTRACTS**

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4. **Williams LM**, Loughland CM & Gordon E. Visual Scanpaths and Recognition of Positive and Negative Facial Emotions in Schizophrenia. (1999). *Schizophrenia Research*, 36, S268.
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16. Phillips ML, Parker A, **Williams LM** et al (2001). Investigation of the Variability and Magnitude of Right and Left Amygdala Responses to Fear in Schizophrenia: An fMRI Study. *Biological Psychiatry*, 49 (8) 151S.

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