



From Data to Care: Precision Medicine in Action for Mental Health

4th Annual Precision Mental Health Symposium

POSTER SESSION

Friday, September 13, 2024 | 3:30-5:00 pm
Li Ka Shing Center

1. Physical activity among pregnant inpatients and outpatients and associations with anxiety

Co-Authors

Danielle M. Panelli MD MS, Hayley E. Miller MD, Samantha L. Simpson BA, Janet Hurtado BA, Chi-Hung Shuy PhD, Ana C. Boncompagni BA, Jane Cheuh MD, Brendan Carvalho MBChB, Pervez Sultan MBChB, Nima Aghaeepour PhD, Maurice L. Druzin MD

Danielle Panelli, *Presenter*

Stanford Obstetrics and Gynecology Department

2. Effect of concurrent transcranial direct current stimulation during cognitive training on brain microstructure and network homogeneity in older adults

Co-Authors

Junghee Ha, Yu Fang, Chandan Kittur, Greg O. Cron, Ok kyu Song, Jin Young Park, Jin Hyung Lee

Junghee Ha, *Presenter*

Stanford University/ Neurology and Neurological Sciences

3. To Be Named

Co-Authors

Colette B. Kling*, Lauren R. Borchers*, Ian H. Gotlib

Lauren Borchers, *Presenter*

Stanford University Department of Psychology

4. Single-Dose Psilocybin for Veterans with Severe Treatment-Resistant Depression: Secondary Outcomes

Co-Authors

Carlton M. Kelly, Mathieu Fradet, Sara Ellis, Catherine Bostian, Anna Donnelly, Eileen G. Fischer, Wendy Feng, Garrett Schwartz, Katie Eisen, Melanie Lean, Betsy Conlan, Jihun Lyu, Michael Ostacher, Scott Aaronson, Trisha Suppes

Carlton Max Kelly, *Presenter*

Exploratory Therapeutics Laboratory, Stanford Medicine Department of Psychiatry

5. Cross-Network Masked Auto-Encoders for Self-Supervised Representation of Brain Functional Profiles

Co-Authors

Karanpartap Singh, Ehsan Adeli

Karan Singh, *Presenter*

Stanford Electrical Engineering Department

6. Long-term Outcomes of Single-Dose Psilocybin in Veterans with Severe Treatment-Resistant Depression: 12-Month Follow-up

Co-Authors

Anna Donnelly, Sara Ellis, Catherine Bostian, Eileen Fischer, Wendy Feng, Garrett Schwartz, Carlton M Kelly, Katie Eisen, Melanie Lean, Betsy Conlan, Jihun Lyu, Michael Ostacher, Scott Aaronson, Trisha Suppes

Anna Donnelly, *Presenter*

Stanford Psychiatry and Behavioral Sciences

7. Cognitive Change Predicts Decreased Depression & PTSD Symptoms for Veterans receiving Transcranial Magnetic Stimulation for MDD

Co-Authors

Lisa N. Cruz, PhD, Michelle L. Wong, BS, & Michelle R. Madore, PhD

Matthew Moore, *Presenter*

Stanford Medicine Psychiatry Department, Palo Alto VA

8. The Relationship between the Number of TMS Sessions and Successful Clinical Treatment Outcomes for Veterans with PTSD

Co-Authors

Mia M. Gonzalez, Bo Dehm Wicklund, Michelle R. Madore

Mia Gonzalez, *Presenter*

Veterans Affairs Research Department

9. Evaluating the Role of Quality of Life in Forecasting Depression Outcomes After Transcranial Magnetic Stimulation Treatment

Co-Authors

Bo Dehm Wicklund, Dr. Michelle R. Madore

Bo Dehm Wicklund, *Presenter*

VA Palo Alto

10. Hallucinations in Females and Males with Borderline Personality Disorder and Comorbid Depression

Co-Authors

Catherine Daye, B.S.; Wiebke Struckmann, PhD; Jennifer Lissemore, PhD; Cammie Rolle, PhD; Nolan Williams, M.D.

Catherine Daye, *Presenter*

Department of Psychiatry and Behavioral Sciences

11. Weak reward effect on inhibitory control in children with ADHD

Co-Authors

Helena Huynh*, Elizabeth Kammer*, Zhiyao Gao, Stacie Warren, Vinod Menon, Weidong Cai

Elizabeth Kammer, *Presenter*
Department of Psychiatry

12. Multimodal Large Language Model for Assessing Depression and Anxiety from Video, Audio, and Transcript Data

Co-Authors

David Dai*, Jenny Xu*, Amelia Sattler*, Nirav Shah, Arnold Milstein, Ehsan Adeli
*Co-Lead Authors

Jenny Xu, *Presenter*
Department of Psychiatry and Behavioral Sciences, Department of Computer Science,
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13. Effectiveness of a Socially Assistive Robot Dog for Improving Pediatric Mask Induction of Anesthesia

Co-Authors

Gabriel B. El-Jaouny

Gabriel El-Jaouny, *Presenter*
Stanford Children's Health | Pediatric Anesthesia

14. Evaluating the Impact of Virtual Reality Education on Pediatric Patients' Well-Being

Co-Authors

Lucy Shang, BA; Ruth Feng, BA; Faaizah Arshad, BA; Michelle Zuniga-Hernandez, BS; Mo Hijazi, BS; Avani Ganesan; Man Yee Suen, MMedSc; Charles Cocanower; Michael Khoury, BS; Faith Collins, BS; Thomas Caruso, MD, PhD

Lucy Shang, *Presenter*, Faith Collins, *Presenter*
Stanford Chariot Program, Lucile Packard Children's Hospital Stanford

15. Reducing Caregiver Anxiety with Virtual Reality: A Randomized Controlled Study in a Pediatric Emergency Department

Co-Authors

Ricardo Jimenez, BA; Michelle Zuniga-Hernandez, BS; Man Yee Suen, MedSc; Castro, Samuel, BS; Ruth Feng, BA; Kassandra Pinedo, MD; Faaizah Arshad, BA; Faith Collins, BS; Avani Ganesan; Ellen Wang, MD; Thomas Caruso, MD, PhD

Samuel Castro, *Presenter*, Ricardo Jimenez, *Presenter*
Anesthesia
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16. Assessing Awe-Inducing Factors in Virtual Reality for Hospitalized Children: A Prospective Study

Co-Authors

Astrid MY. Suen, MMedSc; Holland E. Stacey, Mohamad A. Hijaz, BS, Pinyang Liu, BHA; Sam Rodriguez, MD; Ellen Wang, MD; Thomas J. Caruso, MD, PhD

Astrid Suen, *Presenter*
Department of Anesthesiology

17. Co-existence of negative and positive associations between cognition and psychiatric symptoms reveal necessity of socioeconomic and clinical enrichment

Co-Authors

Adam Pines¹, Leonardo Tozzi¹, Claire Bertrand¹, Arielle S. Keller^{2,3}, Xue Zhang¹, Susan Whitfield-Gabrieli⁴, Trevor Hastie^{5,6}, Bart Larsen^{2,3}, John Leikauf¹, & Leanne M. Williams^{1,7}

Adam Pines, *Presenter*
Psychiatry and Behavioral Sciences

18. Acute Effects of MDMA on the Negative Affective Brain Circuit: Stratification of Mechanistic Neuroimaging Trial

Co-Authors

Xue Zhang

Xue Zhang, *Presenter*
Psychiatry and Behavioral Sciences

19. Effects of Psilocybin on Brain Circuits Underlying Immediate Improvement in Treatment-resistant Depression

Co-Authors

Xue Zhang

Xue Zhang, *Presenter*
Psychiatry and Behavioral Sciences

20. Personalized models of BeamF3 targeting in transcranial magnetic stimulation for depression: Implications for precision clinical translation

Co-Authors

Divya Rajasekharan, BS; Michelle R. Madore, PhD; Paul Holtzheimer, MD; Kelvin O. Lim, MD; Noah S. Philip, MD; Leanne Maree Williams, PhD

Divya Rajasekharan, *Presenter*
Stanford University School of Medicine/Psychiatry and Behavioral Sciences

21. To Be Named

Co-Authors

Daniel M. McCalley, Colleen A. Hanlon, William J. Giardino, M. Windy McNerney, Claudia B. Padula

Dan McCalley, *Presenter*
Psychiatry and Behavioral Sciences

22. Toward Auditory Enhancement of Daily Interactions to Support Mindfulness

Co-Authors

Yujie Tao, Andrew Zhang, Jingjin Li, Sean Follmer

Yujie Tao, *Presenter*
Stanford University, Computer Science Department

23. A Precision Medicine-Based Blood Biomarker Panel for Neurodegeneration

Co-Authors

Edward N. Wilson

Ted Wilson, *Presenter*

Neurology & Neurological Sciences

24. Imaging Synapses to Enable Precision Therapeutics for Schizophrenia

Co-Authors

Chae Park, Eliza Dameron, Mehdi Khalighi, Guido Davidzon, Jacob Ballon, Kate Hardy, Agnes Kalinowski, Jong Yoon

Chae Park, *Presenter*

School of Medicine/Department of Psychiatry and Behavioral Sciences

25. Precision Medicine for Suicide Prevention in Older Veterans

Co-Authors

Sherry A. Beaudreau, PhD, ABPP, Julie A. Lutz, PhD, Booil Jo, PhD, Christine E. Gould, PhD, ABPP, Beatriz Hernandez, MS, & Ruth O'Hara, PhD

Sherry A. Beaudreau, *Presenter*

VA Palo Alto HCS/SP-MIRECC & Stanford/Psychiatry & Behavioral Medicine

26. A Transformer-Based Foundation Model for Functional Neuroimaging

Co-Authors

Teddy J. Akiki, Mihir Tripathy, Xue Zhang, Adam Pines, Josue Ortega Caro, David van Dijk, Chadi G. Abdallah, Leanne M. Williams

Teddy Akiki, *Presenter*

Stanford Medicine, Psychiatry and Behavioral Sciences; VA Palo Alto, National Center for PTSD