

# Stanford

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## Leonardo Tozzi

Research Engineer, Psych/Major Laboratories and Clinical & Translational Neurosciences Incubator

### Bio

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#### BIO

Leonardo Tozzi, M.D., Ph.D., graduated as a Medical Doctor from Pisa University and Sant'Anna School of Advanced Studies in 2013. In 2018, he was awarded his Ph.D. from Trinity College Dublin for his research on the impact of genetic risk factors, epigenetic modifications and environmental stressors on structural and functional brain changes related to depression.

Leonardo joined Stanford in 2018 as a post-doctoral researcher working within the framework of the Human Connectome Project. Since 2022, he leads the Computational Neuroscience & Neuroimaging Program at the Stanford Center for Precision Mental Health and Wellness.

The goal of Leonardo's research is to develop quantitative biomarkers for psychiatry that are reliable, interpretable and can be used to guide treatment selection and estimate therapy response. To this end, he integrates behavioral measures and symptoms with large scale recordings of brain structure and function as well as other biological markers.

In his free time, Leonardo enjoys practicing martial arts, playing video-games, learning philosophy and discovering the local culture.

### Publications

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#### PUBLICATIONS

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- **Convergence, preliminary findings and future directions across the four human connectome projects investigating mood and anxiety disorders.** *NeuroImage*  
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- **Canonical correlation analysis in high dimensions with structured regularization** *STATISTICAL MODELLING*  
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- **Coping Strategies, Neural Structure, and Depression and Anxiety During the COVID-19 Pandemic: A Longitudinal Study in a Naturalistic Sample Spanning Clinical Diagnoses and Subclinical Symptoms.** *Biological psychiatry global open science*  
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- **Reduced functional connectivity of default mode network subsystems in depression: Meta-analytic evidence and relationship with trait rumination.** *NeuroImage. Clinical*  
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- **Test-retest reliability of the human functional connectome over consecutive days: identifying highly reliable portions and assessing the impact of methodological choices** *NETWORK NEUROSCIENCE*  
Tozzi, L., Fleming, S. L., Taylor, Z. D., Raterink, C. D., Williams, L. M.  
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