

## PERSPECTIVE

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# Overcoming the translational crisis of contemporary psychiatry – converging phenomenological and spatiotemporal psychopathology

Georg Northoff<sup>1,2\*</sup>, Jonas Daub<sup>2</sup> and Dusan Hirjak<sup>2,3†</sup>

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Despite all neurobiological/neurocomputational progress in psychiatric research, recent authors speak about a ‘crisis of contemporary psychiatry’. Some argue that we do not yet know the computational mechanisms underlying the psychopathological symptoms (‘crisis of mechanism’) while others diagnose a neglect of subjectivity, namely first-person experience (‘crisis of subjectivity’). In this perspective, we propose that Phenomenological Psychopathology, due to its focus on first-person experience of space and time, is in an ideal position to address the crisis of subjectivity and, if extended to the brain’s spatiotemporal topographic-dynamic structure as key focus of Spatiotemporal Psychopathology, the crisis of mechanism. We demonstrate how the first-person experiences of space and time differ between schizophrenia, mood disorders and anxiety disorders allowing for their differential diagnosis – this addresses the crisis of subjectivity. Presupposing space and time as shared features of brain, experience, and symptoms as their “common currency”, the structure of abnormal space and time experience may also serve as template for the structure of the brain’s spatiotemporal neuro-computational mechanisms – this may address the crisis of mechanism. Preliminary scientific evidence in our examples of schizophrenia, bipolar disorder, anxiety disorder, and depression support such clinically relevant spatiotemporal determination of both first-person experience (crisis of subjectivity) and the brain’s neuro-computational structure (crisis of mechanism). In conclusion, converging Phenomenological Psychopathology with Spatiotemporal Psychopathology might help to overcome the translational crisis in psychiatry by delineating more fine-grained neuro computational and -phenomenal mechanisms; this offers novel candidate biomarkers for diagnosis and therapy including both pharmacological and non-pharmacological treatment.

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## INTRODUCTION

Psychiatry made enormous scientific progress in the last 50 years in various fields including genetics and brain imaging. However, recently some authors declared a ‘crisis of contemporary psychiatry’ [1–3], because both disciplines failed to deliver the promised results for daily clinical application in diagnosis and therapy [4]. While some authors suggest to more strongly develop computational psychiatry to resolve the ‘crisis of mechanisms’ [3, 5], others propose that there is lack of appreciation of the subjective component of psychopathological symptoms [6–11] (Fig. 1). The subjective component is, for instance, taken into focus in Phenomenological Psychopathology (PP) [12, 13] which targets first-person experience of time and space, self, body and world as the subjective core of psychopathological symptoms and/or related cognitive-affective function [14–17]. However, this leaves open how first-person experience including the psychopathological symptoms link to third-person observation about the brain’s neural activity changes.

The main claim of our perspective is to show how to address this gap in our current knowledge. We propose that PP provides an ideal

stepping stone to address both the crisis of subjectivity and crisis of mechanism. For that, PP needs to converge with what recently has been introduced as Spatiotemporal Psychopathology (STPP) [18–20]: the key assumption here is that brain, experience and symptoms are intimately connected through their shared basic spatiotemporal disturbance as a “common currency” [18, 21]. Such merger of PP with STPP can address both the crisis of subjectivity and the crisis of mechanisms. This shall be illustrated by space and time experience as well as their possibly related neuronal correlates in schizophrenia (SZ), mood (uni- and bipolar) and anxiety disorders (AD). The two sections on space and time organization in both experience and brain share the same structure: First, we introduce the historical and phenomenological origins of the spatiotemporal concepts as such. Second, we discuss those EEG and MRI studies in SZ, bipolar disorders (BD), major depressive disorders (MDD) and AD that conjointly examined subjective experience of space or time including their neuronal correlates (see supplement for methodological approach). We hypothesize that the altered experience of space and time in psychiatric disorders can be mapped onto correspondingly altered spatiotemporal dynamics of the brain’s

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# Repression And Fear New Approaches To Resolve The Crisis In Psychopathology

**Yacov Rofe**



## **Repression And Fear New Approaches To Resolve The Crisis In Psychopathology:**

*The Rationality of Psychological Disorders* Yacov Rofé, 2012-12-06 Rof's book is a unique scientific contribution to the understanding of psychopathological phenomena. He does more to unravel the mystery of the underlying causes of psychological disorders than we've seen in a long time. His book *The Rationality of Psychological Disorders* is a true endeavor that presents a definite challenge to the scientific community of Psychology. This book is a must read for scientists, mental health professionals, and others who search for the logic and rationale in the irrational and bizarre. Elizabeth F. Loftus, University of Washington, Past President, American Psychological Society. The notion of repression is crucial to many psychological theories, but serious questions have been raised about it. Indeed, some investigators have questioned whether repression even exists. In this book, Professor Rof offers provocative ideas concerning repression and its role in psychopathology in general. His ideas merit attention, and I can highly recommend his book for both researchers and clinicians. David S. Holmes, Chancellor and Distinguished Professor, University of Kansas.

**Rationality Of Irrationality, The: Schizophrenia, Criminal Insanity And Neurosis** Yacov Rofe, 2020-03-10 This book challenges the validity of all traditional theories of psychopathology, particularly with regard to schizophrenia. It demonstrates that the accepted belief that schizophrenia is a brain disease is wrong, a result of the inability of traditional theories to provide an alternative explanation for the correlation between schizophrenia and genetic neurological impairments. Psych Bizarreness Theory (PBT) presented in this book demonstrates that bizarre mad behaviors, schizophrenia, criminal insanity, and neuroses are rational coping mechanisms to extreme levels of emotional distress, usually depression, which are chosen by the individual to improve his quality of life. PBT integrates the scientific contributions of all traditional theories into one theoretical framework. It also integrates all therapeutic interventions of mad behaviors into one theoretical umbrella and suggests a new humanistic therapeutic approach. [National Library of Medicine Current Catalog](#) National Library of Medicine (U.S.), 1990. *Coping with War-Induced Stress* Zahava Solomon, 2013-11-11 In the wake of an earlier book, Solomon (1993) this new work *Coping with War-Induced Stress: The Gulf War and the Israeli Response* promises to make Zahava Solomon a modern maven with respect to the psychological effects of war. Dr. Solomon is a high-ranking officer serving as a psychiatric epidemiologist in the Mental Health Department of the Israeli Defense Forces Medical Corps. She also teaches at Tel Aviv University. The earlier book dealt with the reactions of the Israeli Defense Forces to the 1982 war in Lebanon, which divided the population of Israel concerning its wisdom and justification. The new book deals with the emotional consequences of the United Nations effort against Iraq after its invasion of Kuwait. Because Israel agreed not to participate actively so as not to endanger the fragile Arab coalition against Iraq, it was, in a sense, a nonwar, as Solomon refers to it, yet with many features of a war. Although they had quite limited casualties, largely in the Tel Aviv area, the Israelis faced the actuality of damaging Scud missile attacks and the threat that these missiles could not only be targeted to much of Israel but also carry poison gas to other Israeli cities.

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