

Fundamental problems for main-stream Social & Life Sciences

Time series of observables of living systems
(e.g. human physiology, performance and self-reports of well-being)

- Often no *stationarity* of central moments
- Often no characteristic scale of fluctuation (*homogeneity*)
- No *memoryless-ness* property (nontrivial after-effects of interactions)
- *Anomalous diffusion* rather than typical diffusion
- *Ageing* (losing identity over time)
- *Scaling* (1/f noise, multifractal spectrum, multiplicative cascades)

>> non-ergodic, non-equilibrium, non-linear phenomena

Most common model in Social Sciences: General Linear Model

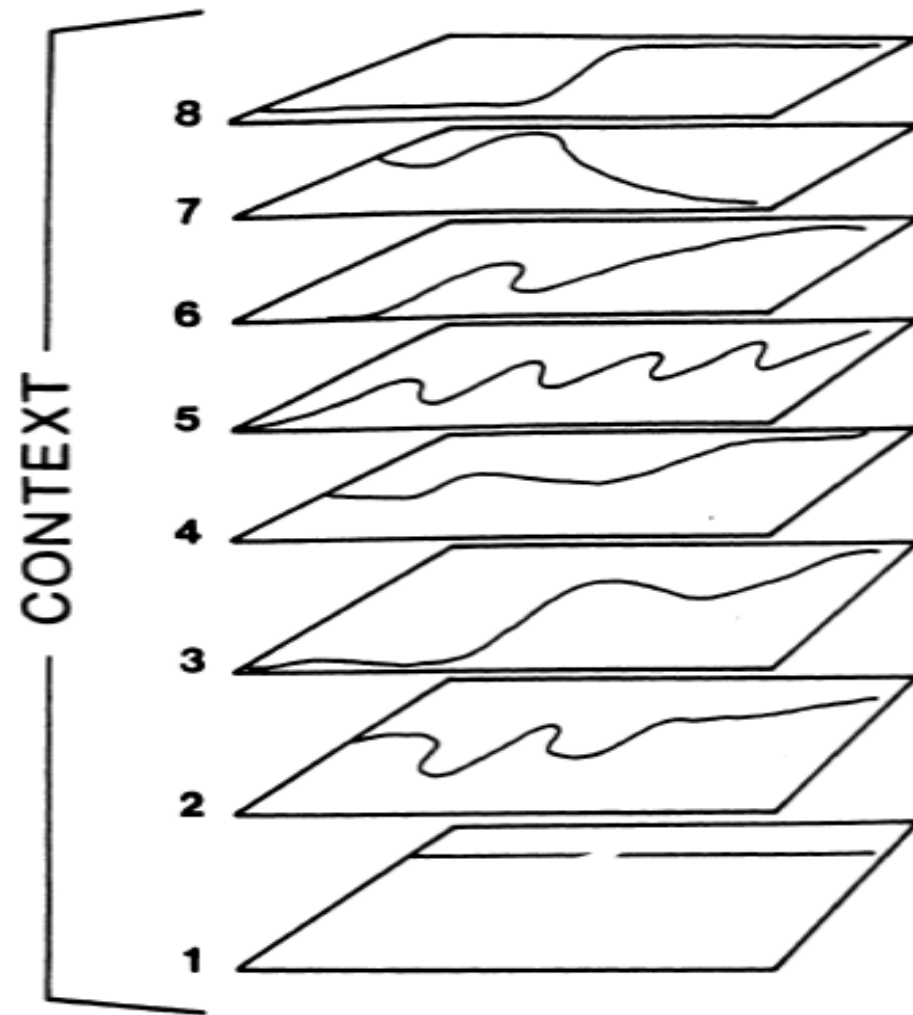
A Manifesto on Psychology
as Idiographic Science: Bringing the
Person Back Into Scientific Psychology,
This Time Forever

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Special Section On A Biological
Window on Psychological
Development. Edited by Clancy Blair
& Jean-Louise Gariepy

**On the Implications of the
Classical Ergodic Theorems:
Analysis of Developmental
Processes has to Focus on
Intra-Individual Variation**



Development:

Continuous

Occurs across and within multiple nested temporal and spatial scales

The result of interactions with the internal and external environment