The Resonant Architecture of Cognition

A Unified Cognitive Ontological Framework Rooted in Neurodivergent Phenomenology

Introduction

This collection of documents presents a novel cognitive-ontological framework, termed the Resonant Architecture of Cognition, derived from an intensive, first-person case study of a neurodivergent individual with traits of ASD and ADHD. This work challenges traditional, deficit-based models of cognition by proposing a self-consistent, alternative architecture where executive function is not driven by conventional willpower, but is instead modulated by an intrinsic alignment with personal meaning, coherence, and authenticity.

Core Constructs

The framework is built upon three core constructs that describe a cognitive system in which meaning serves as the primary catalyst for action and thought:

© 2025 Anthony Janus – Licensed CC BY-NC-ND 4.0

Ontologically Modulated Executive Function (OMEF)

A non-volitional executive gating mechanism wherein the initiation and sustenance of effort are entirely contingent on a task’s resonance with the individual's internal sense of coherence and purpose. This is empirically anchored by the subject's exceptionally low Industriousness (3rd percentile), indicating a system functionally incompatible with duty-based or externally imposed motivation.

False-Structure Intolerance (FSI)

A protective, neurocognitive preservation mechanism that triggers an immediate, full-system shutdown, a "somatic veto," in response to external demands, structures, or expectations perceived as meaningless, inauthentic, or incoherent. This response is energetically powered by the subject's exceptionally high Neuroticism-Volatility (97th percentile), which fuels the intense, irritable reaction to ontological threats.

State-Contingent Motivational Filtering (SCMF)

A dynamic mechanism that governs the characteristic oscillation between intense, high-engagement flow states and quiescent periods of low-engagement incubation. Motivation is contingent upon the alignment of external stimuli with the individual's internal cognitive-emotional "state vectors," producing an all-or-nothing pattern of productivity.

© 2025 Anthony Janus – Licensed CC BY-NC-ND 4.0

Methodology

This model was developed through an innovative Recursive LLM Co-Modeling Protocol, a methodology where the subject utilized multiple AI systems as "epistemic mirrors" and "cognitive prostheses". Through iterative dialogue, raw phenomenological data was refined into robust constructs, which were then triangulated with the empirical data from the Big Five Aspects Scale (BFAS) personality assessment to ensure validity.

Prototype Application: The GSSE

The practical application of this framework is demonstrated through the blueprint for the Gestalt Systems Synthesis Environment (GSSE), a proposed workspace and ecosystem meticulously designed to align with this cognitive architecture. The GSSE serves as a model for neuro-inclusive design, creating a "resonance chamber" that minimizes FSI triggers and amplifies the subject's strengths in high-bandwidth pattern recognition and systems synthesis.

Project Status: ALPHA

Please note that the documents in this collection represent a work in progress and are currently in their ALPHA stage. Though each document contributes to a unified cognitive-ontological system, their recursive development process has led to partial redundancy and conceptual overlap in this ALPHA-stage release.

© 2025 Anthony Janus – Licensed CC BY-NC-ND 4.0

The goal is to refine and revise each document to serve a more distinct and targeted purpose within the collection, enhancing clarity and providing unique value for different audiences. This revision process will focus on sharpening the individual focus of each text while ensuring they remain interconnected parts of a cohesive whole. Thank you for your understanding as this research continues to evolve.

“I exist, therefore I become.”
—A.J.

© 2025 Anthony Janus – Licensed CC BY-NC-ND 4.0

Document Guide

Foundations: Understanding Meaning-Driven Minds

Purpose: To answer the question, "What is this?"

Role: Establish the conceptual entry point by outlining the core constructs and their relevance to meaning-driven cognition.

Summary: This document provides a high-level executive summary of the entire framework. It introduces the core constructs of OMEF, FSI, and SCMF and outlines the interdisciplinary potential of the work. It is designed as a concise entry point for readers to quickly grasp the foundational concepts, their empirical grounding in personality data, and their societal implications for reframing neurodivergence.

Origins: The Science and Story Behind the Framework

Purpose: To answer, "Where did this come from, and how does it work internally?"

Role: Expose the epistemic and phenomenological roots of the framework through a recursive reconstruction of its emergence.

Summary: This document details the genesis and internal mechanics of the cognitive architecture. It explains the first-person phenomenological origins of the model and elaborates on the recursive, AI-assisted methodology used to distill raw experience into formal constructs. It provides a deep dive into the definitions and functions of OMEF, FSI, and SCMF, establishing the internal logic of this meaning-driven system.

© 2025 Anthony Janus – Licensed CC BY-NC-ND 4.0

Integration: How All the Elements Work Together

Purpose: To answer, "How do all the parts fit together at once?"

Role: Unify all constructs, methods, and principles into a single, coherent cognitive-ontological system.

Summary: This meta-synthesis integrates the insights from all source documents into a single, coherent cognitive-ontological framework. It moves beyond individual construct definitions to show how they interrelate to form a self-consistent system governed by "ontological gating." The document places a greater emphasis on the model's philosophical context, its validation through the Trait-Construct Matrix, and the emergent insights that arise from the unified view.

Applications: Building Systems for Cognitive Diversity

Purpose: To answer, "How can we use it for building things?"

Role: Translate the framework into actionable blueprints for designing neurodivergent-compatible systems across domains.

Summary: This document translates the theoretical framework into practical applications for systems design. It provides a comprehensive blueprint for the Gestalt Systems Synthesis Environment (GSSE), a recursive, neuro-aligned ecosystem designed to amplify resonance-driven cognition and mitigate FSI triggers. It details how physical, informational, technological, and interpersonal structures can be engineered to create a state of cognition-environment fit, offering a tangible model for neuro-inclusive design.

© 2025 Anthony Janus – Licensed CC BY-NC-ND 4.0

Implications: Transforming Society Through Understanding

Purpose: To answer, "What does this mean for the world?"

Role: Extrapolate the societal, educational, and clinical consequences of adopting the framework's cognitive-ontological paradigm.

Summary: This document explores the broader societal, educational, and clinical implications of the Resonant Architecture of Cognition. It deconstructs pathological framings of neurodivergence, recasting traits like ASD and ADHD as high-bandwidth specializations. It discusses the friction between this cognitive model and current productivity paradigms and advocates for an ontological reorientation in policy, pedagogy, and therapy to better support cognitive diversity and unlock human potential.

© 2025 Anthony Janus – Licensed CC BY-NC-ND 4.0