

Gerrit Ian van Schalkwyk, MD

EXECUTIVE PROFILE

Psychiatrist, academic educator, editor, and physician leader developing clinically rigorous artificial intelligence and translational neuroscience approaches for behavioral health. Current work centers on functional neuroscience, longitudinal patient modeling, clinical AI specification and governance, child and adolescent care, and health-system implementation. Emphasis is placed on provenance, uncertainty, human agency, and clinician responsibility rather than opaque scores or autonomous decision-making.

TRANSLATIONAL NEUROSCIENCE	LONGITUDINAL MODELING	CLINICAL AI ARCHITECTURE	CHILD & ADOLESCENT CARE
Functional variables bridging presentation and biology	Dynamic, multi-source patient models updated over time	Specification, provenance, uncertainty, verification, oversight	Psychiatry, education, systems design, developmental formulation

SELECTED AI LEADERSHIP & PROJECTS

Functional Neuroscience Layer for Behavioral Health

Developing a translational framework between clinical presentation and genes/cells/circuits/computations. The model decomposes presentations into capacities, processes, states, representations, and learning/plasticity variables, creating a clinically useful functional layer for reasoning and treatment research without treating DSM labels as mechanistic explanations.

DaiMIND™ — Dynamic AI Modeling of an INDividual

Architect and clinical lead for a longitudinal person-modeling framework that integrates heterogeneous narrative and structured data into an evolving, traceable representation. Current R&D is deliberately simplifying the architecture to rely more on strong base-model reasoning, structured context, provenance, explicit uncertainty, targeted clarification, and human review rather than excessive workflow scaffolding.

Continuous Child & Adolescent Patient Modeling

Developing an AI-enabled shared model in which encounters and longitudinal data update an evolving representation of a child's strengths, vulnerabilities, functioning, exposures, and interventions. Clinicians retain responsibility for correction, interpretation, and action; the goal is continuity of understanding rather than episodic note generation.

Clinical AI Specification & Controls Framework

Developing a practical architecture for explicit control of generative AI in clinical work: source and identity boundaries, separation of documented facts from inference, evidence lineage, uncertainty preservation, verification, stopping rules, and bounded transformation. The accompanying 'specification literacy' work argues that safe clinical AI requires more than prompt quality.

Bounded Editions — AI-Enhanced Scholarly Publishing & CME

Building source-bounded interactive editions for books, academic chapters, and educational content, with text-grounded search and optional AI layers. Current prototypes include pediatric clinical neuroscience publishing and a CME model designed to preserve editorial control while making static knowledge more explorable.

Behavioral Health Utilization-Review Workflow Transformation

Designed and tested an AI-assisted workflow that converts clinical records into standardized review summaries, decision-support questions, and structured documentation while preserving physician determination. The approach treats AI as a controlled transformation layer rather than an autonomous adjudicator.

Preserve Africa — AI Knowledge Preservation Initiative

Concept development for a partnership-based initiative to preserve and represent indigenous African knowledge, values, and cultural frameworks in future AI systems, including Ubuntu-informed perspectives and community-governed collection strategies.

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CLINICAL AI · PSYCHIATRY · NEUROSCIENCE · HEALTH SYSTEM DESIGN

AI-FOCUSED CURRICULUM VITAE ·
SEPTEMBER 2026

AI MANUSCRIPTS & SCHOLARLY WORK

UNDER REVIEW

- van Schalkwyk GI, James T, Martín A. Artificial intelligence in clinical care: toward a continuously updated model of the child. *Journal of the American Academy of Child & Adolescent Psychiatry*. Under review, 2026.

IN DEVELOPMENT

- Clinical translational neuroscience / functional-layer manuscript — a framework linking behavioral-health presentations to capacities, processes, states, representations, learning/plasticity, and biological implementation.
- van Schalkwyk GI, Martín AS. Beyond Prompting: Specification Literacy for Clinical AI — proposes explicit, auditable controls over data, instructions, evidence, inference, outputs, and verification rather than reliance on prompt quality alone.

SELECTED AI & DIGITAL HEALTH PUBLICATIONS

2023 van Schalkwyk GI. Artificial intelligence in pediatric behavioral health. *Child and Adolescent Psychiatry and Mental Health* 2023;17(1):38. PMID: 36907862. PMCID: PMC10009954. DOI: 10.1186/s13034-023-00586-y.

2023 Agapoff JA, van Schalkwyk GI. A dimensional approach to emotional lability in youth. *Journal of the American Academy of Child & Adolescent Psychiatry* 2023;63(4). DOI: 10.1016/j.jaac.2023.07.004.

2017 Ross DA, Arbuckle MR, Travis MJ, Dwyer JB, van Schalkwyk GI, Ressler KJ. An integrated neuroscience perspective on formulation and treatment planning for posttraumatic stress disorder: an educational review. *JAMA Psychiatry* 2017;74(4):407–415. PMID: 28097353. PMCID: PMC5504531.

2017 van Schalkwyk GI, Volkmar FR, Corlett PR. A predictive coding account of psychotic symptoms in autism spectrum disorder. *Journal of Autism and Developmental Disorders* 2017;47(5):1323–1340. PMID: 28108825. PMCID: PMC5401012.

2016 van Rensburg SH, Klingensmith K, McLaughlin P, Qayyum Z, van Schalkwyk GI. Patient–provider communication over social media: perspectives of adolescents with psychiatric illness. *Health Expectations* 2016;19(1):112–120. PMID: 25040474. PMCID: PMC5055203.

2015 van Schalkwyk GI, Klingensmith K, McLaughlin P, Qayyum Z. The use of social networking sites in adolescents with psychiatric illness: a qualitative study. *Scandinavian Journal of Child and Adolescent Psychiatry and Psychology* 2015;3(2):108–114.

APPOINTMENTS EFFECTIVE NOVEMBER 1, 2026

2026-present | Consulting Psychiatrist · BrightQuest Treatment Centers

Psychiatric care in a residential treatment setting, with individualized treatment planning, medication management, and multidisciplinary coordination.

From Nov 1, 2026 | Consulting Psychiatrist · Looking Glass Community Services

Contracted through Resilient Minds Psychiatry PMC. Telepsychiatric assessment, medication management, case and referral consultation, and discharge planning for regional crisis care.

Ongoing | Psychiatrist & Consultant · Resilient Minds Psychiatry PMC

Private psychiatric practice; clinical consultation and medicolegal / expert-witness work. Consulting in behavioral health, medical necessity, autism/neurodevelopmental care, and clinical-program and process design; development and evaluation of clinical AI workflows.

2023-present | Assistant Clinical Professor · Yale Child Study Center

Yale School of Medicine. Teaching and scholarship in child and adolescent psychiatry, translational neuroscience, formulation, and clinical AI.

2026 | Course Faculty / Curriculum Developer · Yale School of Medicine

Advanced teaching in translational neuroscience and case formulation.

PRIOR LEADERSHIP & ACADEMIC APPOINTMENTS

2025-Oct 2026 (planned) Medical Director · Centene Corporation

2022-2025 Medical Director, Inpatient Unit · Naval Medical Center San Diego

2020-2022 Medical Director, Inpatient & Crisis Stabilization · Intermountain Children's Health

2019-2020 Chief, Adolescent & Young Adult Services · Butler Hospital

2017-2020 Assistant Professor of Psychiatry & Human Behavior · Brown University

2017-2019 Unit Chief, Adolescent Inpatient Unit · Butler Hospital

2015-2017 Fellow, Child & Adolescent Psychiatry · Yale Child Study Center

2012-2015 Resident, Adult Psychiatry · Yale University

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EDITORIAL & SCHOLARLY LEADERSHIP

- Associate Editor, Child and Adolescent Psychiatry and Mental Health (2024–present); Co-Editor-in-Chief (2021–2023).
- Associate Editor, Journal of Autism and Developmental Disorders (2019–2022).
- Editor, Pediatric Gender Identity (Springer, 2020).
- Co-editor, Lewis's Child and Adolescent Psychiatry: A Comprehensive Text, 6th ed. (Wolters Kluwer, 2026).
- Editorial and peer-review experience spanning psychiatry, autism, medical education, and clinical research.

EDUCATION, CERTIFICATION & SELECTED HONORS

2006–2011 **MBChB, cum laude** · Stellenbosch University, South Africa

2016–present **Board Certified, Psychiatry** · American Board of Psychiatry & Neurology

2017–present **Board Certified, Child & Adolescent Psychiatry** · American Board of Psychiatry & Neurology

SELECTED HONORS

- 2024 Medical Student Teaching Award, Uniformed Services University.
- 2019 Outstanding Teaching Award in General Psychiatry, Brown University.
- 2019 Dean's Excellence in Teaching Award for Undergraduate Teaching, Brown University School of Medicine.
- 2017 Melvin Lewis Medical Student Teaching Award, Yale Child Study Center.
- 2011 Best Graduating Medical Student, Stellenbosch University.

SELECTED NON-AI SCHOLARSHIP

46 peer-reviewed original research publications listed in the current academic CV, plus editorials and commentaries, two edited books, and nine book chapters. Selected examples:

- Hadler NL, van Schalkwyk GI. Beyond psychotropics: critical strategies for supporting youth in foster care. Child and Adolescent Psychiatry and Mental Health 2026;19(1):18.
- Agapoff JA, Chong Z, Meek M, van Schalkwyk GI. Pharmacologic and non-pharmacologic interventions for emotional lability: a meta-analysis. Neuroscience & Biobehavioral Reviews 2023;149:105184.
- van Schalkwyk GI, Lewis AS, Beyer C, Johnson J, van Rensburg S, Bloch MH. Efficacy of antipsychotics for irritability and aggression in children: a meta-analysis. Expert Review of Neurotherapeutics 2017;17(10):1045–1053.
- van Schalkwyk GI, Wilkinson ST, Davidson L, Silverman WK, Sanacora G. Acute psychoactive effects of intravenous ketamine during treatment of mood disorders. Journal of Affective Disorders 2018;227:11–16.