

Albert Buchard

MD, MSc

Geneva, Switzerland

[Website](#) • [Full CV](#)

[GitHub](#) • [Google Scholar](#)

[LinkedIn](#)

MEDICAL QUALIFICATIONS

Medical degree • 2006–2013

Sorbonne University, MD-PhD track;
Swiss federal recognition obtained in 2014.

Doctorate in Medicine • 2022–2026

Machine learning and computational psychiatry, University of Geneva;
expected submission in 2026.

RESEARCH RECORD

Google Scholar • 9 Aug 2026

1,151 citations; h-index 11; i10-index 13.

Clinical machine-learning review

698 citations for a 2020 review of
clinical decision support in infectious
diseases.

SELECTED TRAINING AND AWARDS

Ecole de l'INSERM • 2007

National competitive
physician-scientist programme;
two-year master's scholarship.

MSc Neurosciences • 2009–2011

Magna cum laude; ranked second of
60; research at the Ecole normale
superieure and Brain and Spine
Institute.

Swiss National Science Foundation • 2015

MD-PhD scholarship of CHF 180,000
over three years.

Stanford • 2019

Best poster and invited panelist in
artificial-intelligence-assisted care.

Physician-Scientist in Medical Artificial Intelligence

I began programming at nine before training in medicine, neuroscience, and psychiatry through selective physician-scientist programmes. I now work as a Chef de clinique and Clinical Research Scientist at Geneva University Hospitals while completing a doctorate on the causal validity of deep sequence models. My research spans medical triage and safety at Babylon Health, neural and physiological signal modelling at BIOS Health, and causal drug-repurposing systems at [RE]MEDs Research, where I led the artificial-intelligence programme. I take health-machine-learning work from a clinically relevant question through method development, causal and statistical validation, and production software, while keeping patient safety, privacy, and implementation constraints explicit. I also build independent clinical-education products.

— Clinical responsibility and causal research

Chef de clinique (senior hospital physician)

2023–present

Geneva University Hospitals, Department of Psychiatry

Geneva

- Provide senior psychiatric care in the psychogeriatric crisis programme from 2025.
- From 2023 to 2025, conducted psychedelic-assisted-psychotherapy research on Schema Therapy constructs and processes; also conduct computational-psychiatry research.

Clinical Research Scientist

2021–present

Geneva University Hospitals

Geneva

- Develop causal deep-learning methods for multimodal sequential modelling in psychiatry.
- Led the end-to-end development of a React Native, React, Node.js, Python, and R digital mental-health research platform; contribute to outcomes, safety, biomarker, and implementation studies.

Doctoral Researcher, Machine Learning and Computational Psychiatry

2022–present

University of Geneva, Faculty of Medicine

Geneva

- Test when deep sequence models recover generative signal and when they exploit confounding, selection, or nuisance information using structural simulations and known-truth neuroimaging evaluations.
- Dissertation: *From Prediction to Causal Inference in Modern Deep Sequential Task-fMRI Models*; expected in 2026.

— Physiological signals

Machine Learning Researcher

2020

BIOS Health

Cambridge

- Developed sequence-to-sequence models for peripheral-nerve recordings and physiological time series for neural-signal biomarker discovery.
- Applied Bayesian optimisation and reinforcement learning to nerve-stimulation research; contributed Swift, Python, and C++ software for data collection and cardiological monitoring.

SELECTED PUBLICATIONS

Clinical outcomes · 2026

Real-world effectiveness and safety of psychedelic-assisted psychotherapy. [Psychiatry Research](#)

Causal validation · 2026

High-throughput target-trial emulation for drug repurposing in systemic lupus. [Research Square](#)

First-author psychiatry · 2025

Early maladaptive schemas and psychedelic outcomes. [Research Square](#)

Medical decisions and diagnosis · 2022

Two Springer chapters with Jonathan G. Richens; first author on *Artificial Intelligence for Medical Decisions*. [Medical Decisions · Medical Diagnosis](#)

PATENTS

Three families from Babylon Health: one active granted United States patent and two published abandoned applications. [Granted patent record](#)

CLINICAL TEACHING

Schema Therapy for Personality Disorders

4.5 hours · May 2026.

Psychiatry Through Film

Clinical Perspectives on Mental Illness · 2 hours · 2025.

LANGUAGES

French and English.

— Medical decisions, safety, and causal evidence

Research Scientist

2018–2020

Babylon Health

London

- Led deep-reinforcement-learning research and developed causal, Bayesian, and probabilistic methods for active diagnosis, medical triage, epidemiological sensitivity analysis, and product safety.
- Built scalable Unity and Kubernetes research environments, stopping and clinician-rule validation tools, and a cross-platform C++ inference prototype with an internal tenfold speed improvement.
- Published first-author research and contributed to three patent families, including one granted United States patent.

Lead Artificial Intelligence Scientist

2021–2025

[RE]MEDs Research

Paris / remote

- Led a language-model and biomedical knowledge-graph research programme for drug repurposing and therapeutic-hypothesis generation.
- Developed graph-based causal methods, simulation-driven validation, and target-trial-emulation infrastructure; built production Python, React, and Node.js research systems.

— Independent health and research systems

Therapy Deliberate Practice

Psychotherapy communication-skills practice with React and TypeScript interfaces, a Tauri and Rust desktop application, and local Python speech and language processing for a privacy-preserving workflow. Training software; no claim of treatment efficacy, diagnosis, clinical validation, or clinical deployment. [therapy-deliberate-practice.com](#)

QuotiDoc

Medical-education product with daily clinical questions and structured synthesis sheets; not a clinical decision system. [quotidoc.com](#)

CausalPipe

Python package for causal discovery, statistical testing, model comparison, and reproducible reports. [GitHub · CausalPipe](#)

QuotiPsy

Psychiatry-education product with daily exercises and structured psychotherapy and psychopharmacology syntheses. [quotipsy.com](#)

Forge

Local-first system for structured memory, provenance, device synchronisation, health-data integration, and coding-agent workflows. [GitHub · Forge](#)

CausalBOLD · in press

Known-truth causal simulations, Transformer models, attribution analyses, and controlled tests of confounding and selection in task-based functional magnetic-resonance imaging. No public software or data release has been verified.