

## Walter Greenleaf, PhD

Walter Greenleaf is a neuroscientist and a medical technology developer working at Stanford University. With over three decades of research and development experience, Walter is considered a leading authority in the field of digital medicine and medical virtual reality technology.



### Research Focus:

Walter's current research focus is on developing computer supported clinical products, with a specific emphasis on applying virtual reality and digital health technology to address difficult problems in behavioral and physical medicine such as Post-traumatic Stress, Anxiety Disorders, Depression, Traumatic Brain Injury and Stroke, Addictions, and Autism Spectrum Disorder.

His early research was on age-related changes in the neuroendocrine system and the effects on human behavior.

### Academic Positions:

Walter is currently a *Distinguished Visiting Scholar* at Stanford University's MediaX Program, a *Visiting Scholar* at Stanford University's Virtual Human Interaction Lab, and the *Director of Technology Strategy* at the University of Colorado National Mental Health Innovation Center. He previously served as the *Director of the Mind Division*, *Stanford Center on Longevity*, where his focus was on age-related changes in cognition.

### Medical Product Development:

Walter has designed and developed numerous clinical systems over the last thirty-five years, including products in the fields of: surgical simulation, 3D medical visualization, telerehabilitation, clinical informatics, clinical decision support, point-of-care clinical data collection, ergonomic evaluation technology, automatic sleep-staging systems, psychophysiological assessment, and simulation-assisted rehabilitation technologies, as well as digital eHealth products for behavioral medicine.

### Academic Leadership:

Walter is the Co-founder and Board Chair for the *International Virtual Reality Health Association (IVRHA)*. He helped establish the *California State University Center for Disability Solutions* and the *International Society of Virtual Rehabilitation (ISVR)*. He serves as the Co-Organizer for three yearly conferences: *The VR and Behavioral Healthcare Symposium*, the *Annual Virtual Reality and Healthcare Symposium*, and the *European Virtual Reality and Healthcare Symposium*.

Walter has served as a scientific advisor and grant reviewer for the U.S. Public Health Service, National Science Foundation (NSF), National Institutes of Health (NIH), NASA and the U.S. Department of Education. He has served as the Principal Investigator for research projects funded by the NIH and by NASA.

### Corporate Management:

Walter founded and served as CEO for *Greenleaf Medical Systems*, a business incubator; *InWorld Solutions*, a company specializing in the therapeutic use of virtual worlds for behavioral health care; and *Virtually Better*, a company that develops virtual environments for the treatment of phobias, anxiety disorders, and PTSD. Walter served as the founding Chief Science Officer for *Pear Therapeutics*. Walter is the technology and neuroscience advisor to several early-stage medical product companies. He is on the advisory board to several venture investment firms and accelerator / incubator programs.

### Academic Journals:

Walter is an Associate Editor for three academic journals: *JMIR Mental Health*, the *Journal of Virtual Reality in Medicine*, and *Cyberpsychology, Behavior, and Social Networking*.

### Board Positions:

Walter serves on the Board of Directors for *Brainstorm: The Stanford Laboratory for Brain Health Innovation and Entrepreneurship*; for *Cognitive Leap*, a company that develops mental health solutions for children; and for *Sine Wave*, the developer of *Sine Space*, a multi-user online Unity 3D-based virtual world platform.

Walter earned a Doctorate in Neuro and Bio-Behavioral Sciences from the Stanford University School of Medicine, where he was awarded a NIMH Graduate Fellowship.