Neuroscience meets Technology

A Vision of the Future of Brain Optimization

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Co-Founder
Akili Interactive Labs, Sensync & Jazz Venture Partners
Enhance Cognition
Status Quo

- Poor assessments
- Poor targeting
- Non-personalized
- Unimodal
- Open Loop
targeted

personalized

multimodal

closed-loop
Technology
Experience

Brain Plasticity
Closed Loop Video Games System
Performance

Motion Capture
Physiology

Closed-Loop System

Augmented / Virtual Reality

Environment
Co-founder and Chief Science Advisor
Diagnostic & Therapeutic Video Games
Diagnostic & Therapeutic Video Games

Autism
PTSD
Traumatic Brain Injury
Memory & Aging

ADHD
Anxiety
Depression
Alzheimer’s
Multiple Sclerosis

Potential: FIRST Cleared Non-Drug treatment for ADHD
Bridging the Gap Between Technology and Neuroscience

neuroscape.ucsf.edu
New Games
Intervention Research
Double-Blinded, Randomized, Placebo-Controlled

Transfer

Mechanism
- sMRI
- fMRI
- EEG
- GSR
- VO2max

Sustainability

Mechanism
- cognition
- behavior
- stress
- mood
- sleep

Heterogeneity
- telomeres
- inflammation
- hormones
- enzymes
- genes
Enhance the Effects

Neuromodulation  Video Games  Neurofeedback
Thanks for your attention
Financial Support

Past
- National Institute of Mental Health
- American Federation of Aging Research
- Robert Wood Johnson Foundation
- zynga.org
- Center 17
- Sandler Foundation
- Tim Ferriss
- Magdalena Yesil
- Getty Family
- Lounsbery Foundation
- Kavli Foundation
- Feldman Family Foundation
- Ellison Medical Foundation

Current
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- Pfizer / Eisai
- Posit Science
- National Institute on Aging
- National Science Foundation
- How I Decide Foundation
- Biggelsworth Foundation
- Verily
- Toyota

Network
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- Roberta & Jamie Gates
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Industry Partners
- Apple
- Sony
- NVIDIA
- Neuroelectrics
- Akili
- Empatica
- Zynga
- High Fidelity
- Brain Vision
- Meta
- Cognionics
- Qusp