Expert in Movement or Dance Therapy for Individuals with AD – Consultant

<u>Job Overview</u>: Outlier Technology, LLC (**Outlier**) is seeking an experienced expert in movement or dance therapy for individuals with Alzheimer's disease (**AD**), to collaborate in the design of a motion-music relationship for an augmented reality neurorehabilitation platform that captures the movements of individuals with mild AD and translates these movements into parameters that influence the musical characteristics of nostalgic music. Our aim is to allow users to engage interactively with music creation in the context of individualized rehabilitation interventions that adapt to the user's musical tastes and clinical needs, to improve their cognitive, emotional, and/or physical wellbeing. This is a short-term, high-impact contract role, ideal for an accomplished expert who is interested in participating in the development of immersive neuro-therapeutics at the intersection of computer vision, music, movement, healthcare, and neuroscience innovation.

The selected consultant(s) will play a key role in the development of Outlier's motion-to-music mapping system, providing expert, evidence-based guidance to support the creation of an intuitive and therapeutic relationship between physical movement and musical response. The objective is to ensure that motion data captured from individuals living with Alzheimer's disease is translated into musical outcomes in ways that are clinically meaningful, measurable, and suitable for evaluation in an upcoming clinical trial. The consulting engagement is fully remote and will involve flexible, scheduled Zoom meetings. While U.S. citizenship is not required, all work must be performed within the United States. Compensation will be commensurate with skills and experience. The anticipated start date is on or before **February 1, 2026**.

Key Responsibilities:
- Provide recommendations on the types of movement (e.g., repetitive, rhythm-based) that may have therapeutic value for AD patients
- Collaborate with the technology development team to map physical movements (e.g., hand gestures, posture, bodily movements) to specific musical parameters.
- Ensure the resulting motion-music mapping is physically intuitive and promotes cognitive, emotional, and/or physical wellbeing
- Guide the development of protocols for safe and effective use in a home or clinical setting, including any contraindications or precautions to consider
- Work in close partnership with software developers, music technologists, computer vision experts, neuroscientists, music therapists, and project leads to ensure cohesive design and implementation
- Provide input into the evaluation of the system, including metrics for measuring user engagement, emotional response, and therapeutic relevance, and refine the system's motion-music mapping framework based on testing feedback

Required Qualifications:
- Minimum of 5 years of experience in movement therapy or music therapy, specifically in the context of Alzheimer's Disease or dementia care
- Experience in the development and implementation of therapeutic programs for individuals with AD or other neurodegenerative disorders, ideally using emerging technologies (e.g., computer vision, virtual reality, music apps)
- Comprehensive knowledge of the literature, clinical practices, and best current approaches for evidence-based movement therapy in AD patients.
- Strong communication skills with the ability to explain complex therapeutic concepts to non-experts, including designers and engineers
- Proven ability to efficiently deliver results within developmental timelines in research-driven environments

Preferred Qualifications:
- Advanced degree (Master's, Doctoral) in Movement Therapy, Gerontology, or related fields
- A solid understanding of the relationship between music and movement, and how the relationship can be harnessed to achieve therapeutic goals in AD communities

Outlier is an early-stage neuroscience innovation start-up and the recipient of Phase I & 2 SBIR funding from the National Institute of Aging and the 2023 & 2024 Catalyst Award from the National Academy of Medicine. Our present work explores the development of data-driven, immersive musical tools to improve cognitive health and emotional wellbeing in individuals with neurological conditions such as Alzheimer's disease. For more information on current opportunity postings, visit https://outliertechnology.com/open-roles or email info@outliertechnology.com.