

[Aural Analytics](#) builds applications that use speech to detect subtle changes in brain health.



*V3 established a common language around evaluation of digital biomarkers that was grounded on familiar terms. This made its adoption in digital health natural.*

— **Visar Berisha**,  
Co-Founder, Aural Analytics



## The Problem

- » We developed speech-based measures of motor control that required validation.



## The Impact

- ✓ Our team of algorithm developers and data scientists worked together to make the relevant datasets and test the algorithms using the V3 framework.
- ✓ Our business development team makes use of the V3 framework when describing our validation data to potential partners.



## The Resources

- » We used DiMe's [V3 Framework](#) to validate our speech-based measures of motor control.
- » We demonstrated that it is possible to remotely detect early motor speech changes and track motor speech symptom progression in amyotrophic lateral sclerosis (ALS) via automated algorithmic assessment of speech.
- » We first established the analytical validity of the features by comparison against hand measurement.
- » Next, we established the clinical validity of the features by comparing against the clinical gold standard scale for measuring disease progression and severity in ALS.
- » Prior to validating the features, we verified that the hardware used to acquire the data provided speech samples of sufficient quality for accurate feature estimation.