Flight Path

Adam Cross^{1,2}, Bhavin Patel³, Inki Kim³

UICOMP¹, Jump Simulation², UIUC³

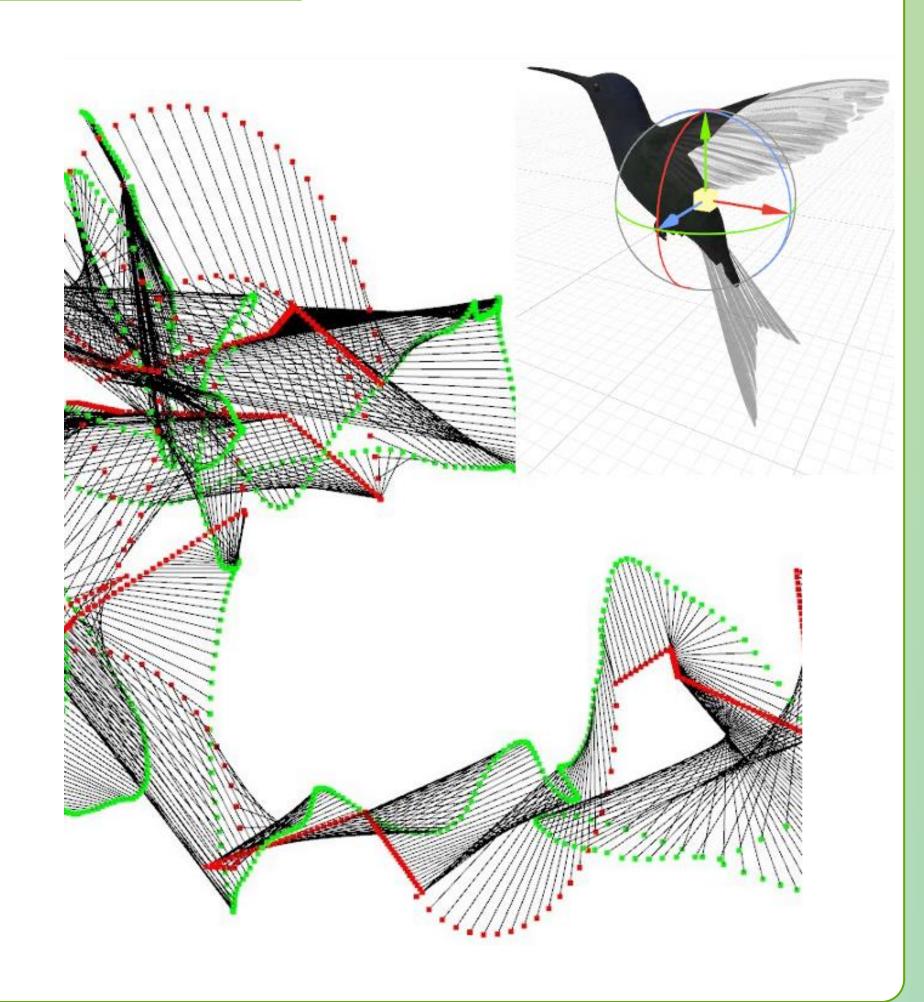
PROBLEM TRYING TO SOLVE

- Traumatic Brain Injury (TBI) is the leading cause of death and disability in people under 40, including children
- Concussion (mild TBI) cannot be detected on imaging or with blood tests
- Existing concussion detection tools are length and subjective



OUTCOME/GOALS/IMPACT TO PATIENT

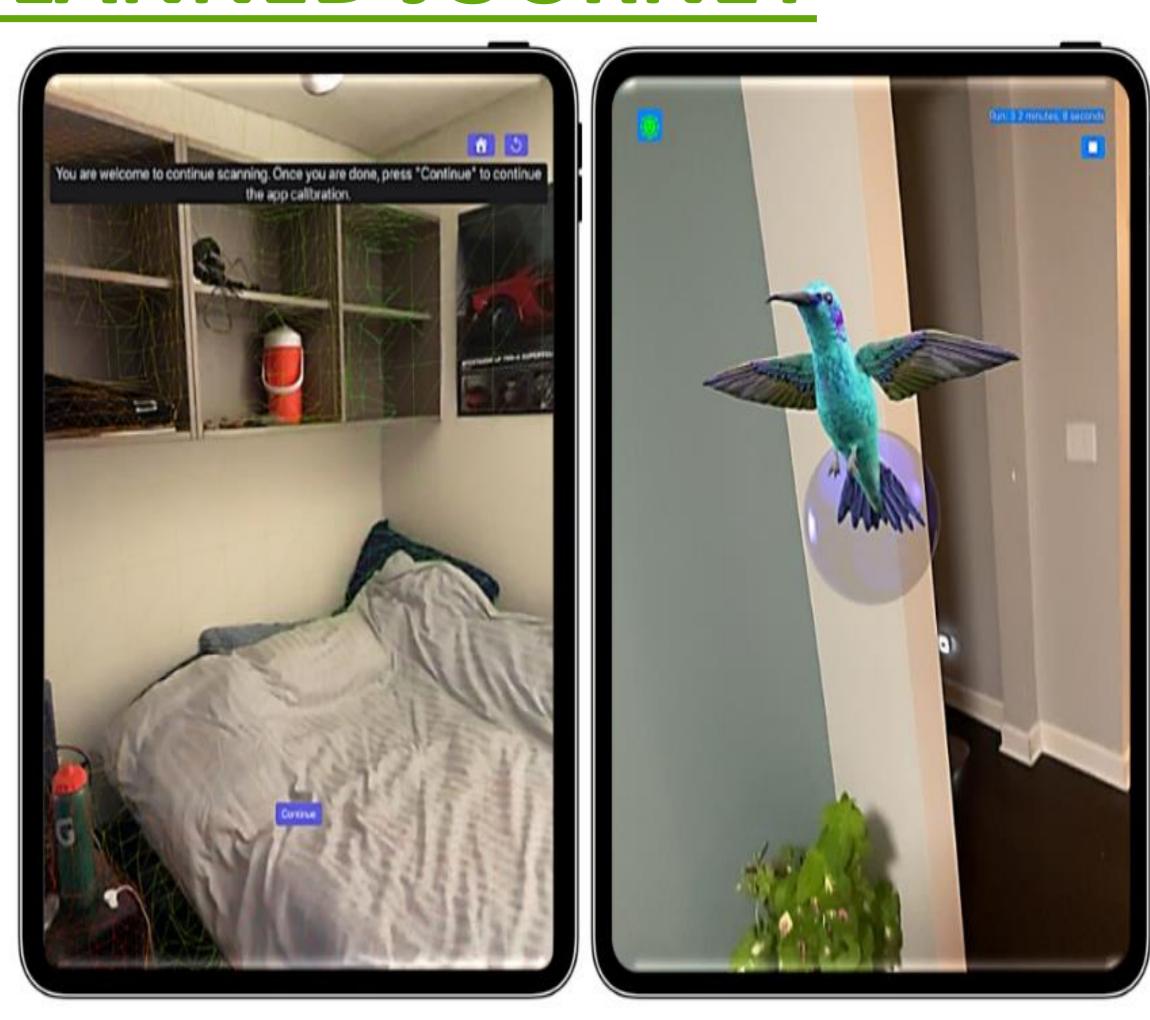
- Advanced mixed reality application for LIDAR-enabled mobile devices
- Fast, objective, and precise testing
- Real-time detection of clinical signs and symptoms of neurocognitive impairment
- Actionable information for coaches, athletic trainers, and clinicians
- Data storage and sharing platform



TOMORROW

JOURNEY TO GET THERE/PLANNED JOURNEY

- Since 2019, FlightPath has moved from the sketchpad to a fully functional app
- Over \$300,000 in internal funding
- Full patent submitted and pending
- Several publications underway
- Human subjects study currently underway with three university athletic departments across Central Illinois



DIRECT IMPACT TO PATIENT/FAMILIES

- Fast mobile testing = high likelihood of testing to occur = better detection
- Earlier detection = faster recovery
- Sharable data = informed care plans
- Faster recovery = lower healthcare costs, quicker return to sports, school, and life

