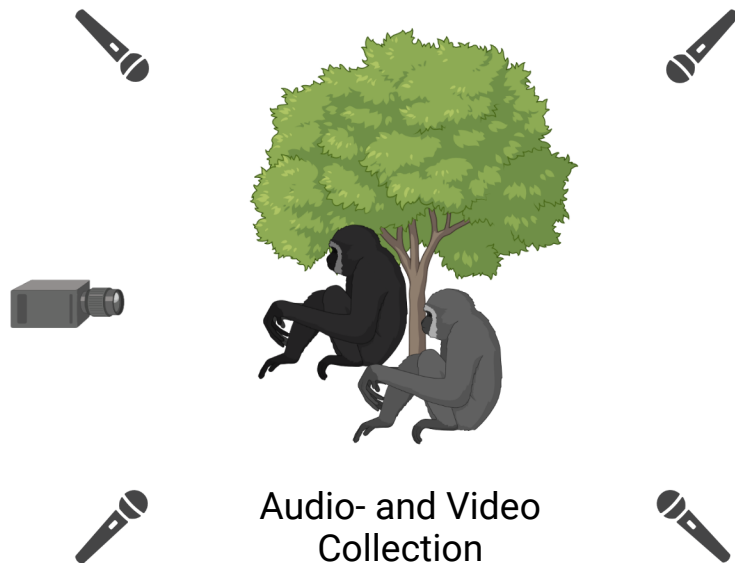
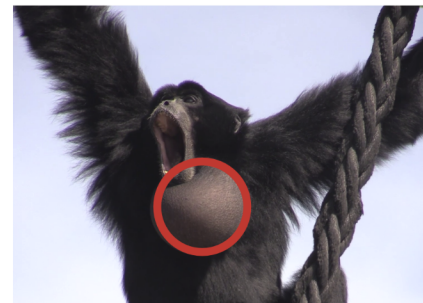


A

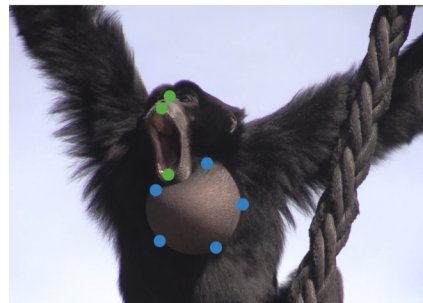


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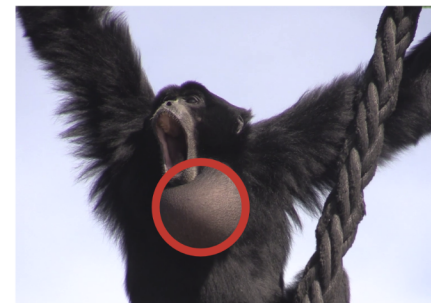
Hough Transform with Parameter Optimization



DeepLabCut Key Point Tracking (DLC)



Landau Circle Estimation



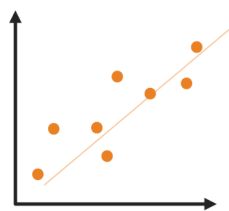
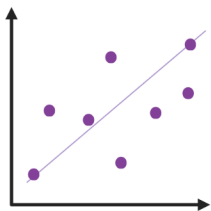
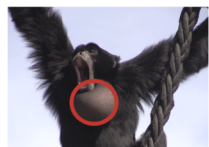
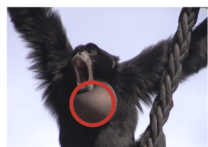
C

Comparison to Manually Tracked Air Sac Radii



Hough

DLC



D

Air Sac Radius Influence on Boom Acoustics



Air Sac Radius Influence on Subsequent Bark Acoustics in Female great call sequence



E



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