



Creating 3-D Visualization Tools to Study Canine Puppy Socialization Behaviors



The puppy project uses safe, noninvasive motion capture and 3-D visualization tools to study canine puppy socialization behaviors in a newly developed portable motion capture unit. While individual interactions have been widely described in the veterinary literature, few recorded observations of group dynamics are available. Plans for this project involve animating the data gained over time to examine recorded individual interactions and group dynamics in a social setting. Using an array of synchronized structured light sensors to capture a collection of moving objects is a feasible technique for recording and allowing the quantification of puppy social interactions. This data can be used in future studies with the use of machine learning algorithms to computationally identify social behaviors.

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