

Review of: "Throwing is affected by self-movement"

Alexander J. Koch¹

¹ Lenoir-Rhyne University

Potential competing interests: No potential competing interests to declare.

This was an interesting and practical paper detailing 2 experiments in which visual perception during movement was tested.

In experiment 1, subjects were asked to judge distance to a target while either moving or standing still. Subjects consistently estimated longer distances while running. Some comments-

1. It would be of interest to know more about the experimental subjects. Specifically whether any were experienced in sports like basketball, and if so, where there differences among the subjects in distance perception. For experiment 2 (using the same subjects, it is noted that all subjects has "some experience with sports, including basketball", but it is unclear whether the experience level among all subjects was similar or not.
2. The "running" speed tested (6kph or 3.7 mph) is very slow - and more akin to a brisk walk than a run. I am curious as to why this slow speed was chosen.

In experiment 2, after a stationary viewing of a target and its surroundings, subjects' view of the target was obstructed by a panel, and then subjects threw basketballs at the target while either a standing or running. Subjects consistently threw the ball farther while running.

Overall, this is a very nicely designed study with excellent experimental controls (e.g. removing the hoop during experiment 2 to eliminate the confounding factor of sound on the experiment). The data analysis is sound and the results support the authors' conclusions.