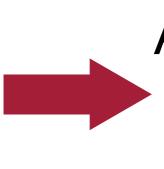




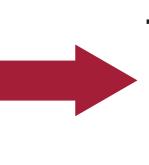
Introduction

(Hafed and Clark, 2002; Engbert and Kliegl, 2003)

(Hafed, 2013; Chen et al., 2015; Hafed et al., 2015; Tian et al., 2016)



(Zhang et al., VSS, 2020)



Here we show that saccades in general (not only microsaccades) can be associated with improved visual sensitivity well ahead of their endpoints

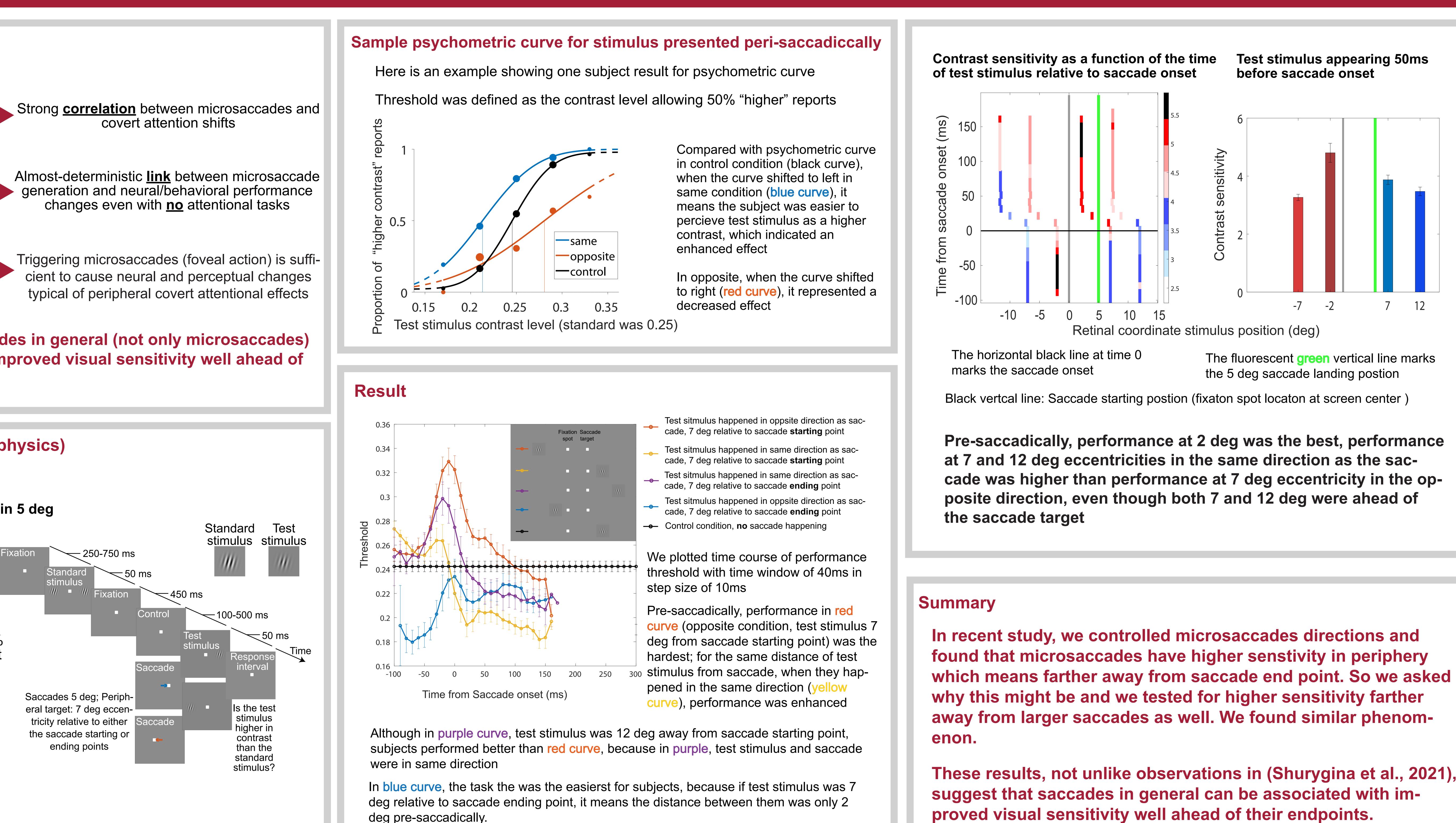
Methods (human psychophysics)

Visually-guided saccade task in 5 deg

Eight subjects compared the contrast of a test stimulus to that of an earlier standard stimulus (Rolfs & Carrasco, 2012)

Standard stimulus contrast: 25% Test stimulus differed in contrast (33%,29%,25%,21%,17%)

The test stimulus could appear before or after a saccade in the same or opposite direction, on either side of fixation at 7 deg eccentricity relative to either the saccade starting or ending points



Pre-movement enhancement of sensitivity ahead of saccade endpoints

Tong Zhang^{1,2}, Ziad M. Hafed^{1,2}

1. Werner Reichardt Centre for Integrative Neuroscience, Tübingen, Germany 2. Hertie Institute for Clinical Brain Research, Tübingen, Germany

These results, not unlike observations in (Shurygina et al., 2021), proved visual sensitivity well ahead of their endpoints.

