



Fixation Filters

Ali Golbazi Mahdipour



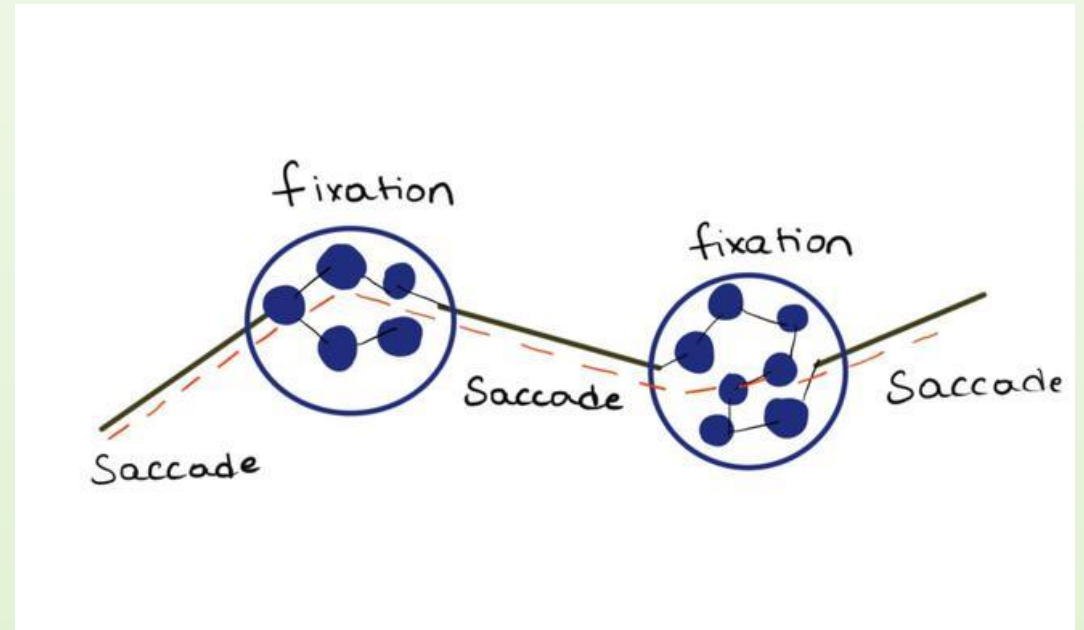
IUST: Neuromarketing (Eye-Tracking and EEG) Researcher

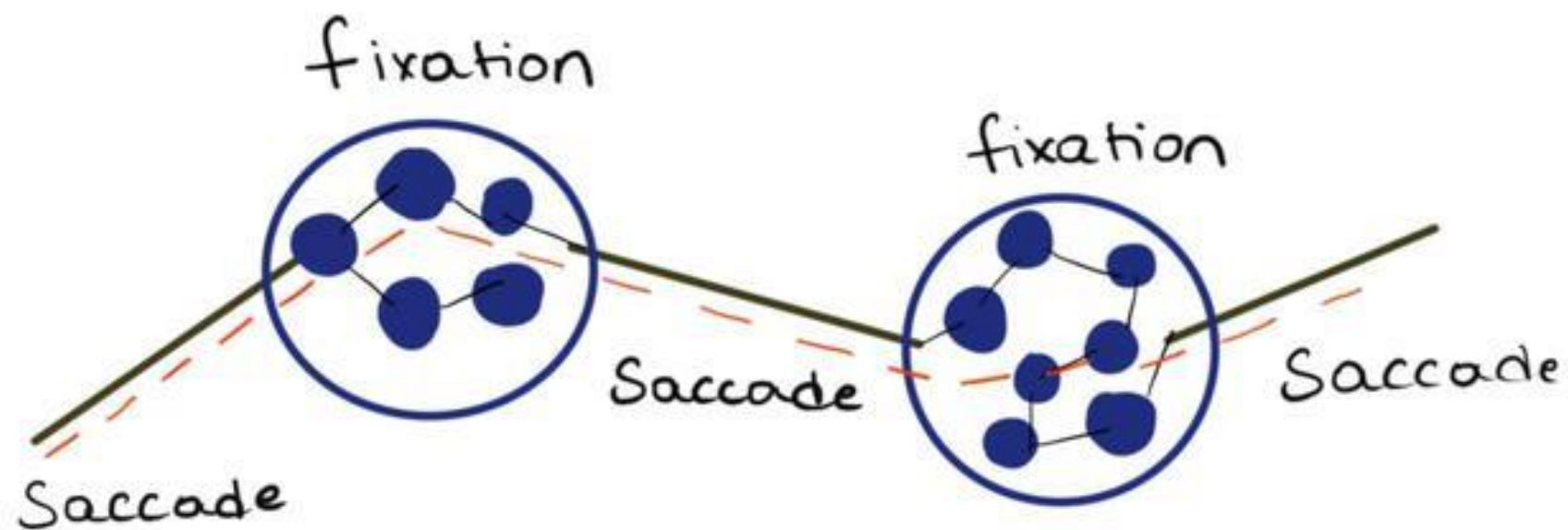


Bank Mellat: Neuromarketing and Eye-Tracking Specialist and Consultant

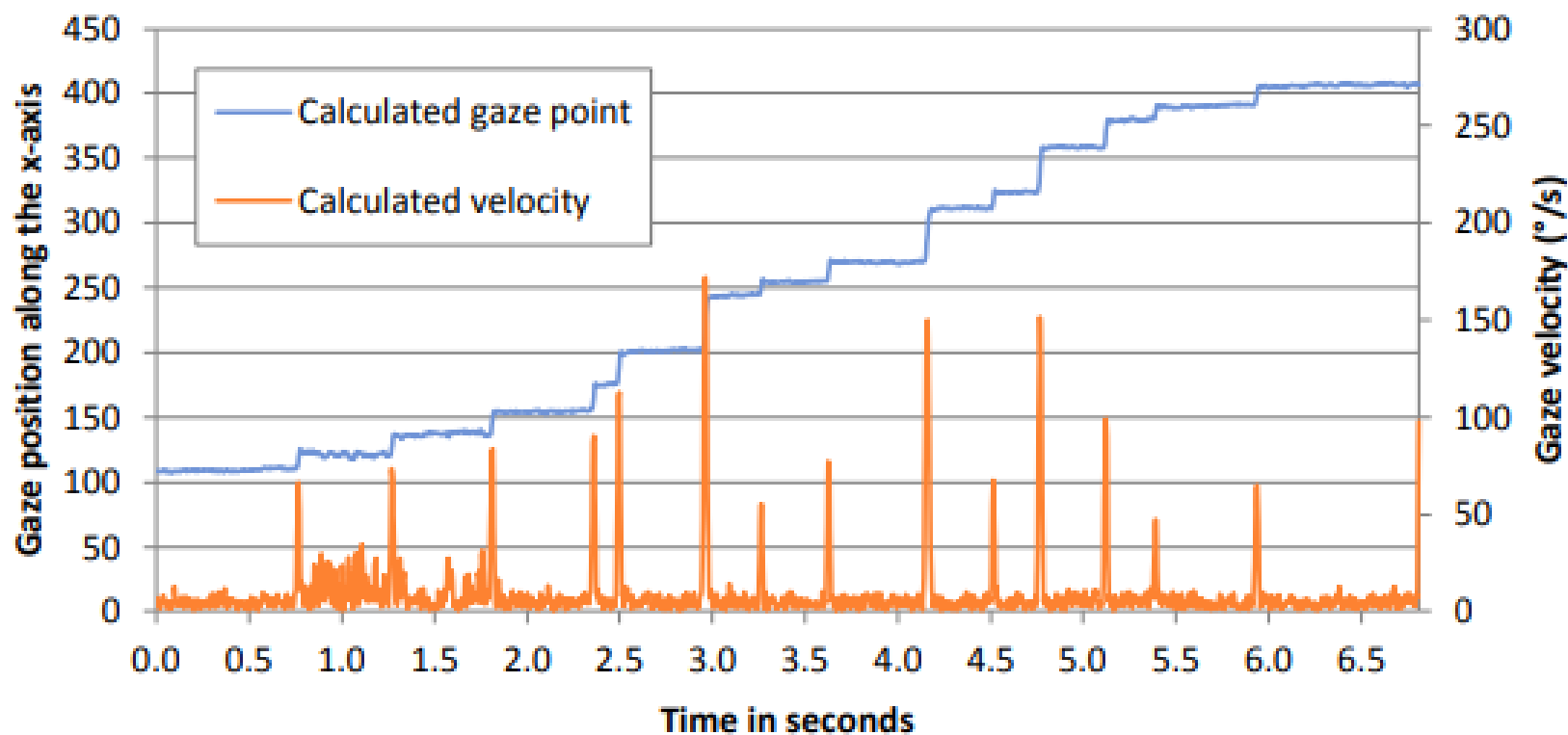


DAJ Scientific Group: Neuromarketing and Eye-Tracking Specialist and Consultant

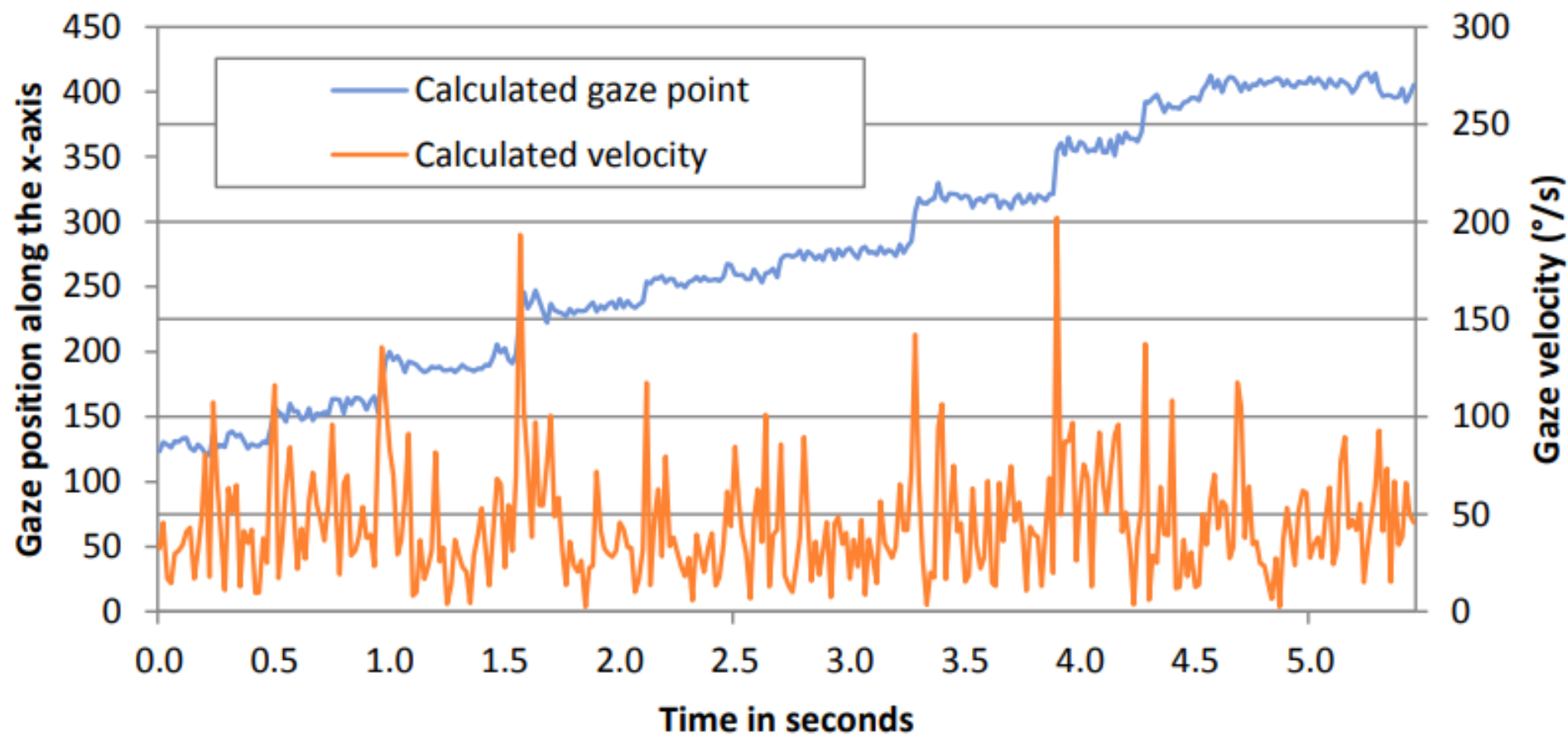




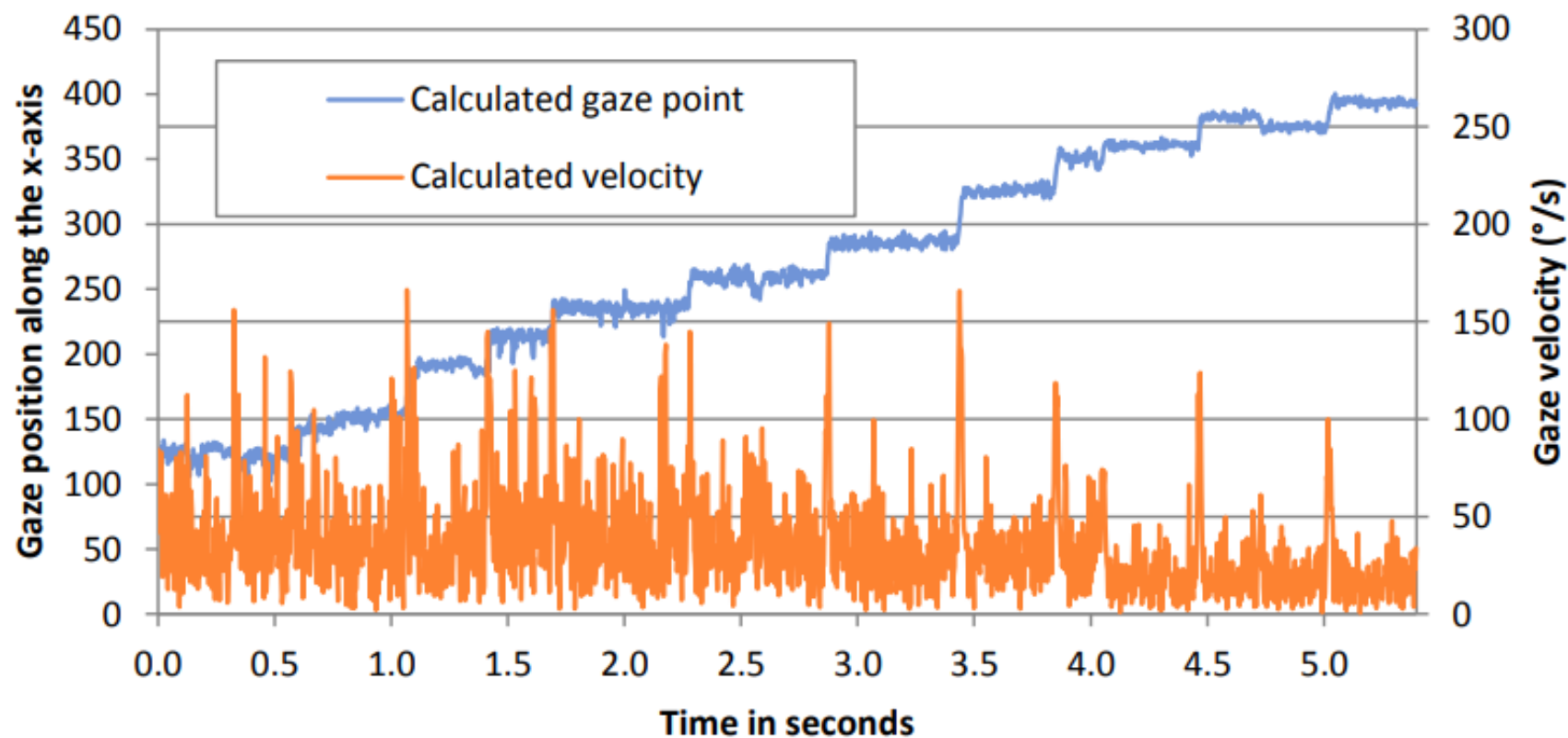
Gaze data and velocity chart



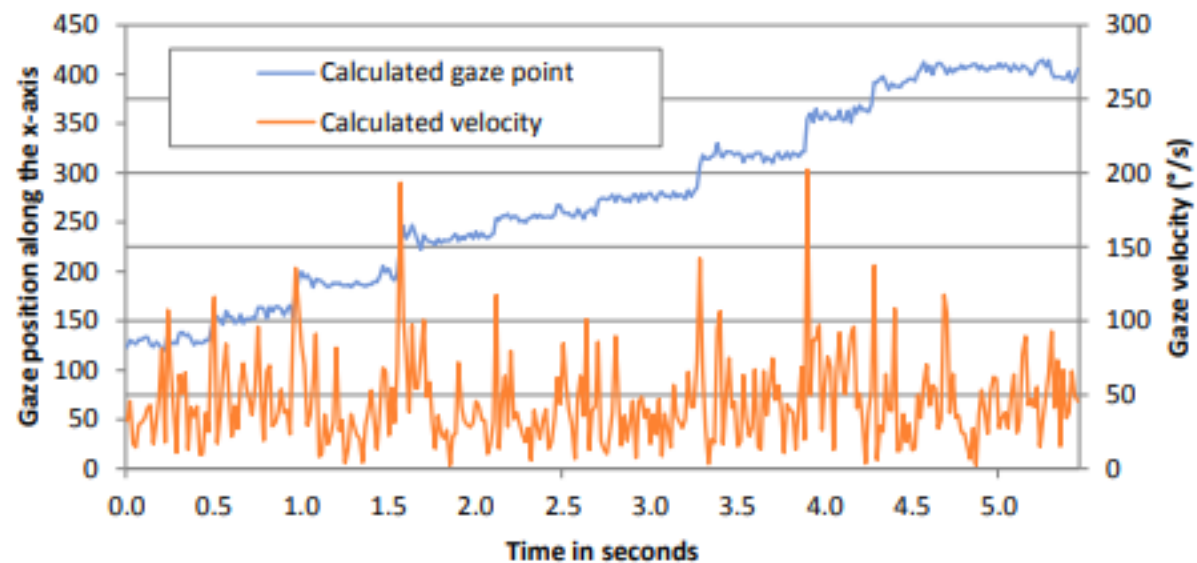
Gaze data and velocity chart - T60XL



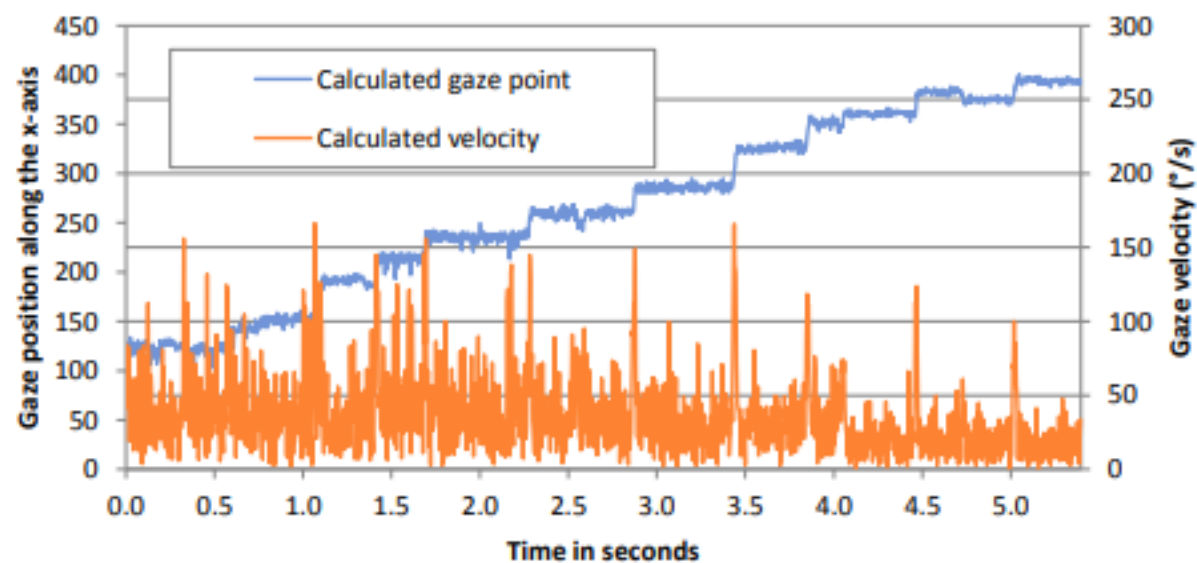
Gaze data and velocity chart - TX300



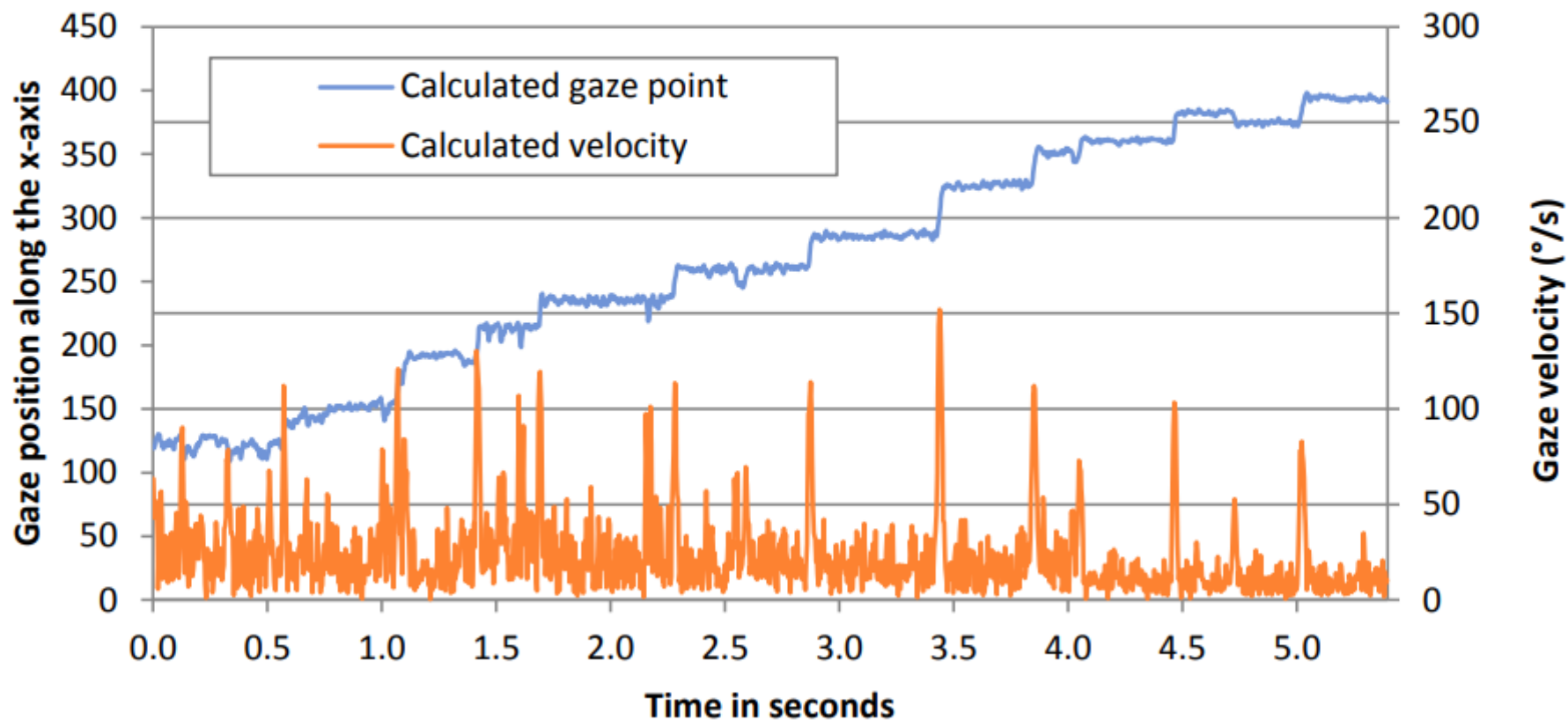
Gaze data and velocity chart - T60XL



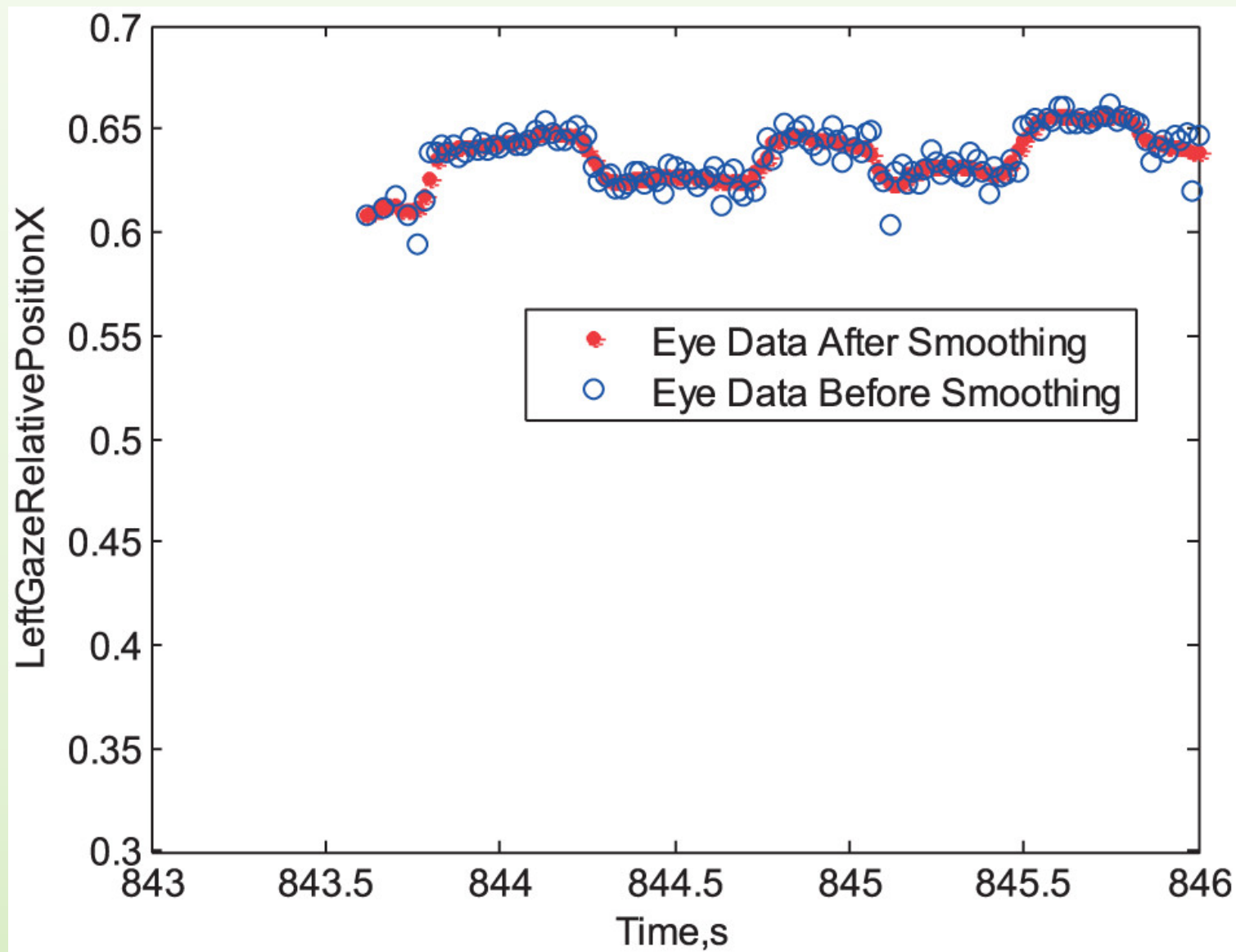
Gaze data and velocity chart - TX300

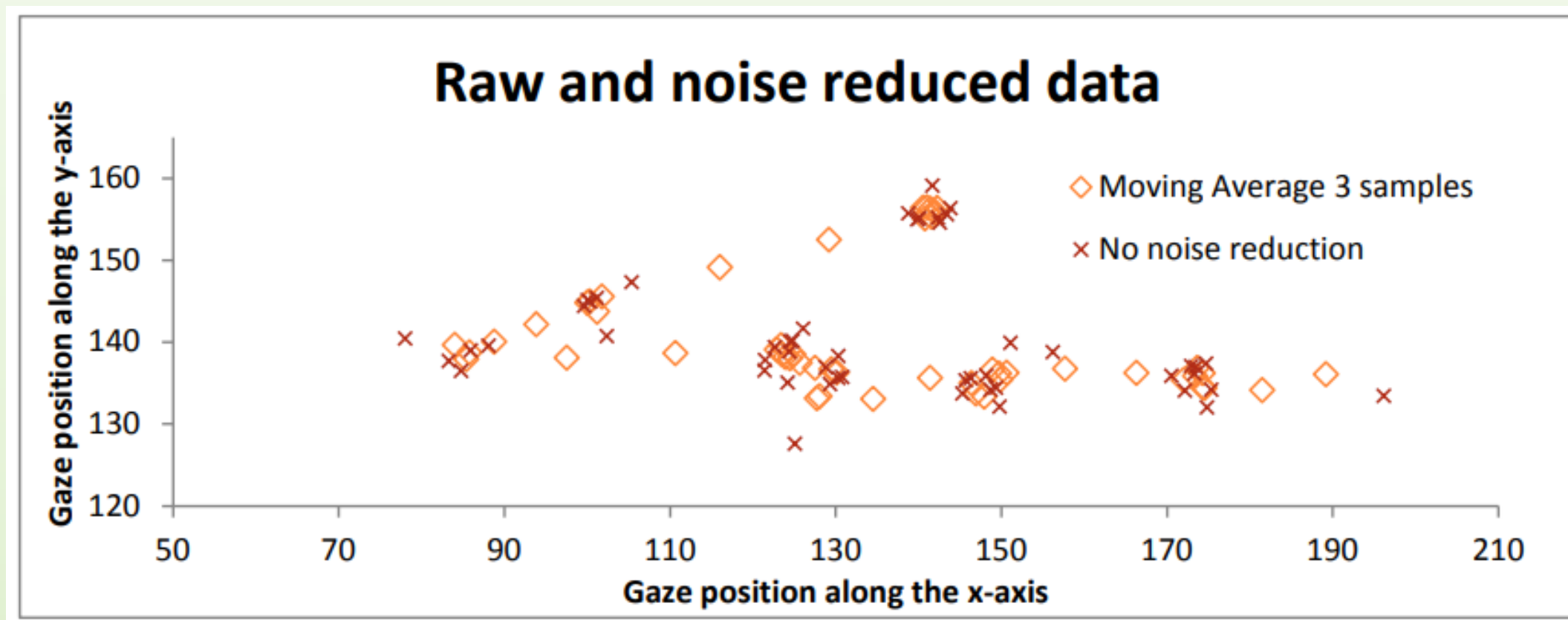


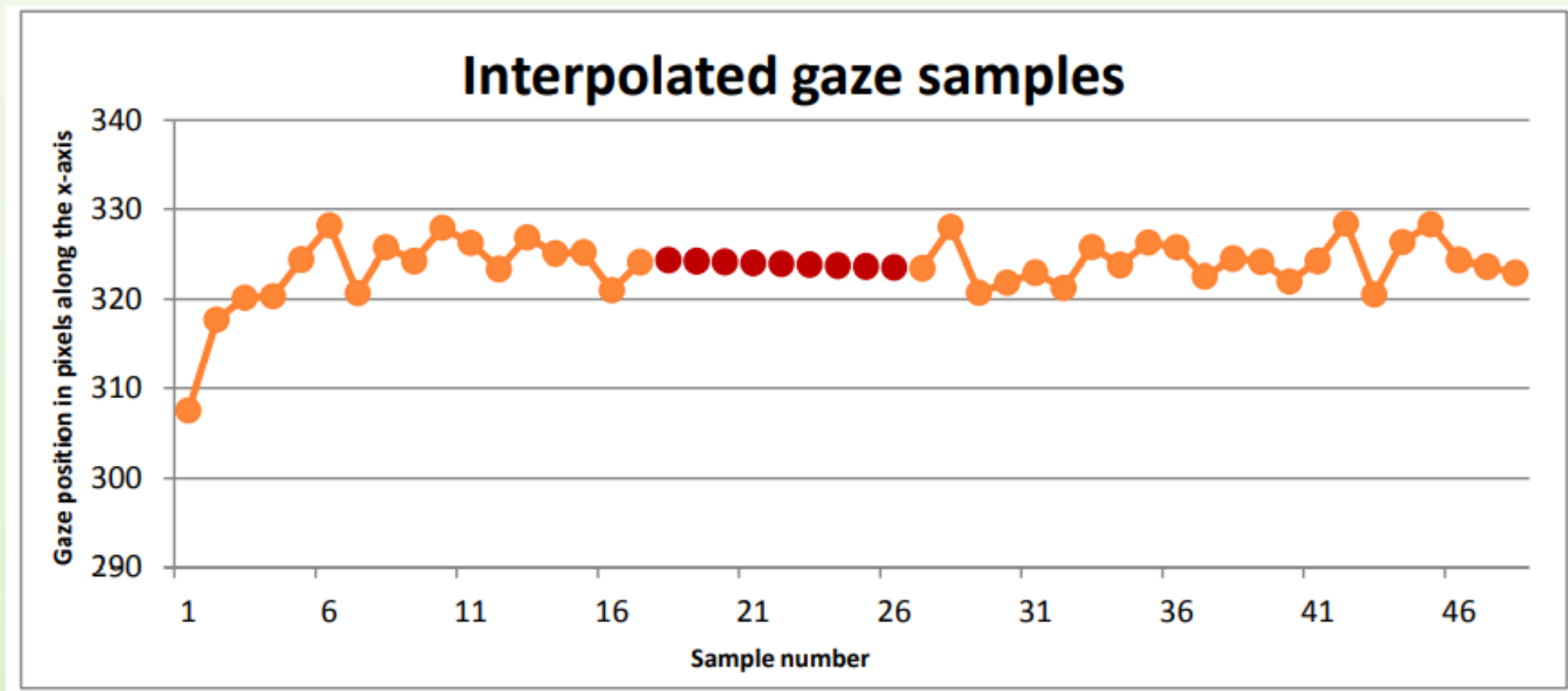
Gaze data and velocity chart - Noise reduced



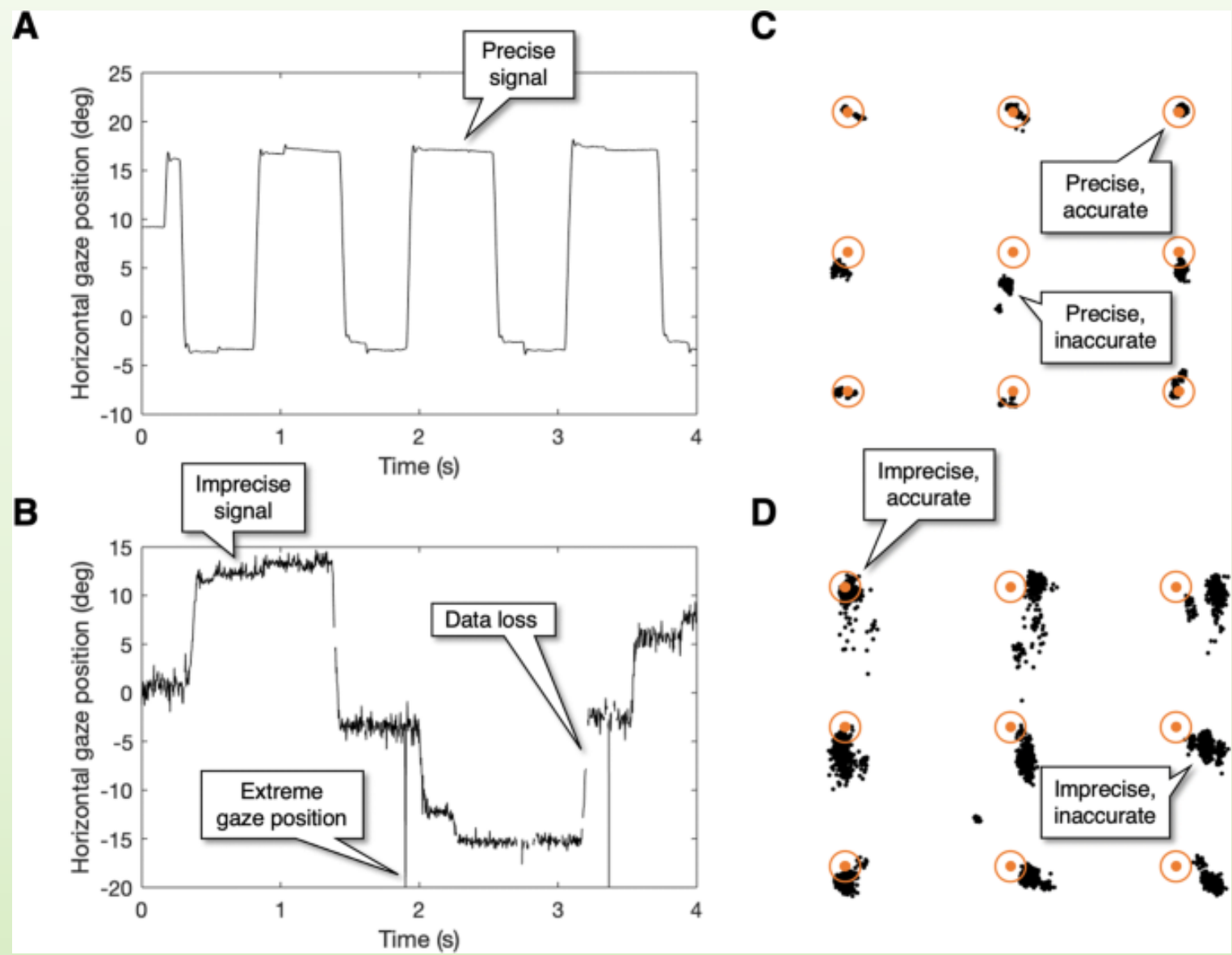
Noise – Moving Average



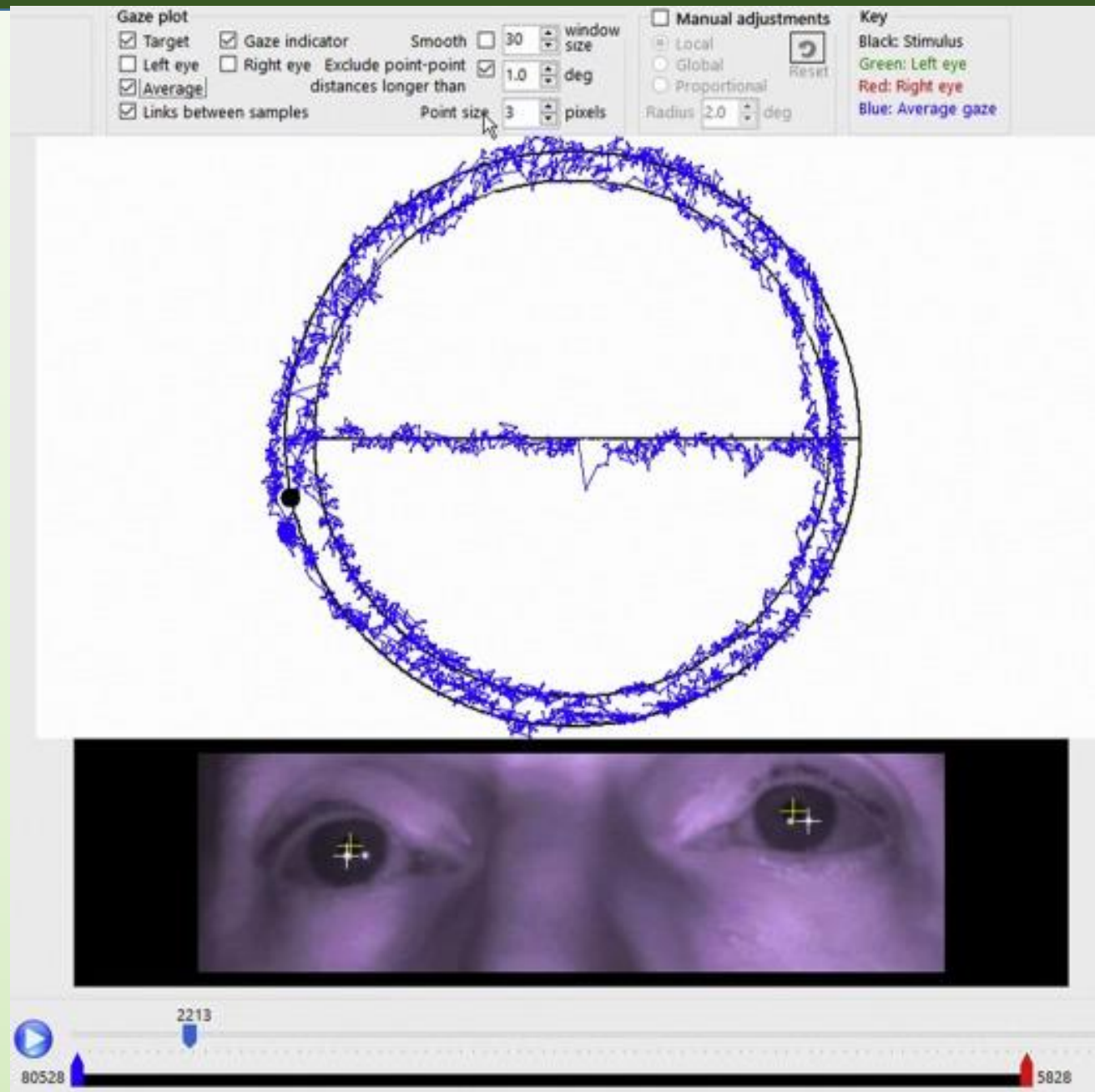




Gap fill in



Eye selection



Fixation filter: I-VT filter

Gap fill-in (interpolation)
☒ Enabled | Max gap length: 75 ms

Eye selection
Left **Average** Strict average Right

Noise reduction
Disabled

Velocity calculator
Window length: 20 ms

I-VT classifier
Velocity threshold: 30 degrees/second

Merge adjacent fixations
☒ Enabled | Max time between fixations: 75 ms
Max angle between fixations: 0,5 degrees

Discard short fixations
☒ Enabled | Minimum fixation duration: 60 ms