

Different Parameter Settings

This table illustrates microsaccade visualizations created for the paintings and photo data set when different parameter values are applied. The directional plots, main sequences, and distributions of the microsaccades' peak velocity, duration, amplitude and time from fixation onset help visually comparing the results.

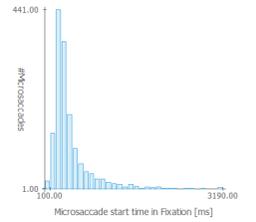
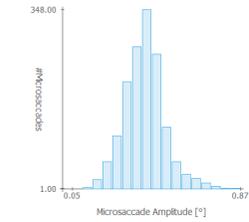
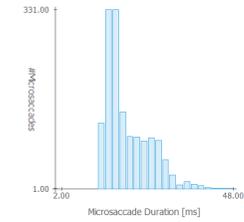
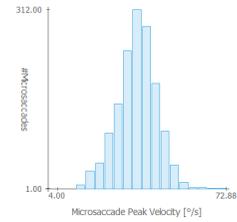
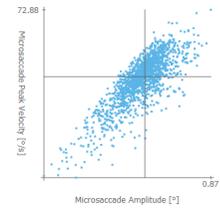
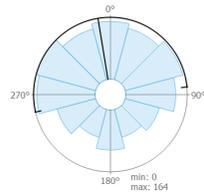
painting Data Set

Parameters	MS Count	Directional Plot	Main Sequence	Peak Velocity	Duration	Amplitude	Start Time
Default	2587						
Time being ignored at beginning of fixation = 0 ms	2944						
$\lambda = 3$	7801						
$\lambda = 10$	1402						

Parameters MS Count Directional plot Main Sequence Peak Velocity Duration Amplitude Start Time

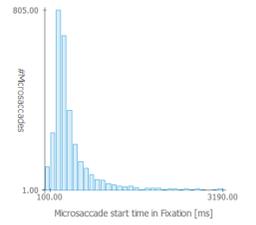
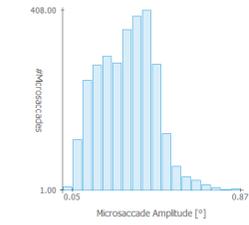
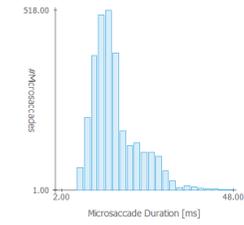
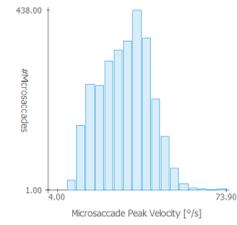
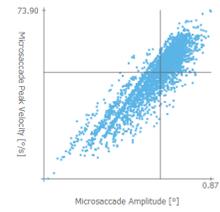
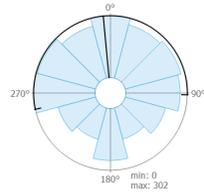
Min.
duration
= 12 ms

1502



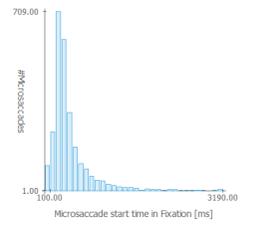
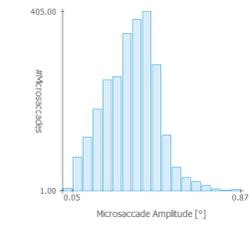
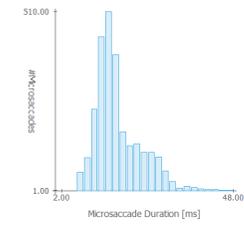
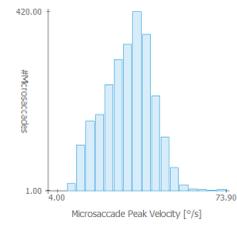
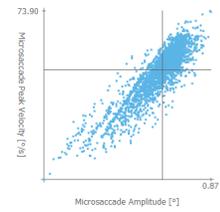
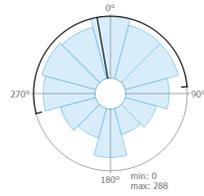
Inter-
saccadic
interval
= 0 ms

2944



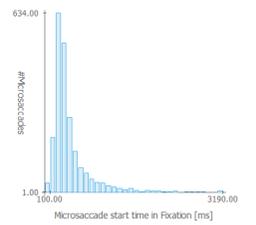
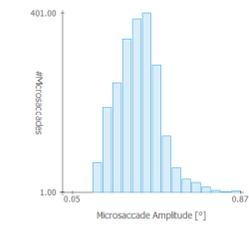
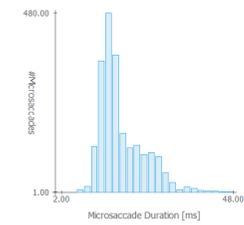
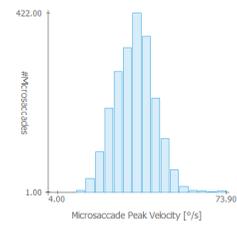
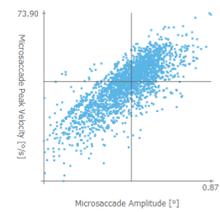
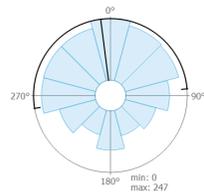
Inter-
saccadic
interval
= 80 ms

2570



Minimum
amplitude
= 0.15°

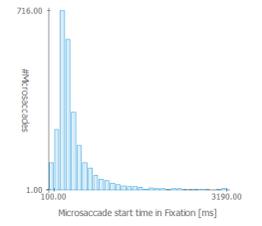
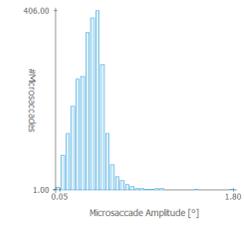
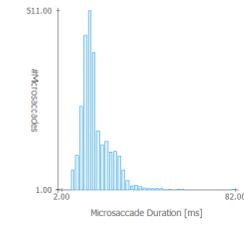
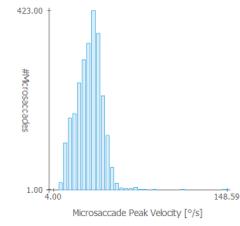
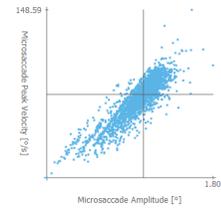
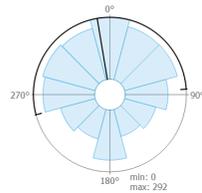
2162



Parameters MS Count Directional plot Main Sequence Peak Velocity Duration Amplitude Start Time

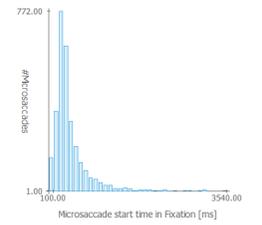
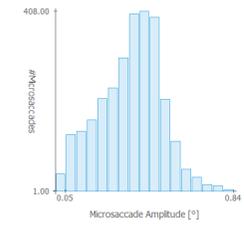
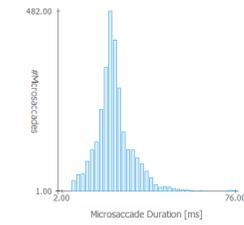
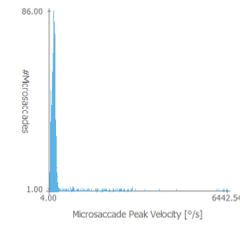
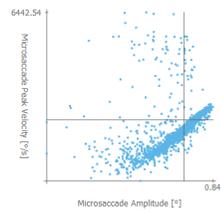
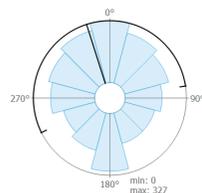
Maximum
amplitude
= 2°

2605



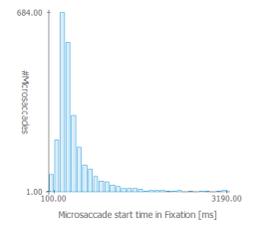
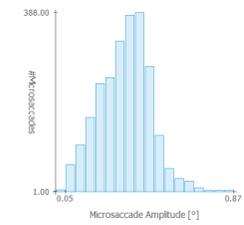
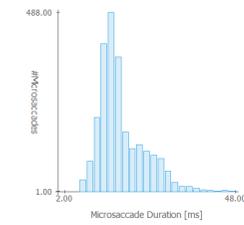
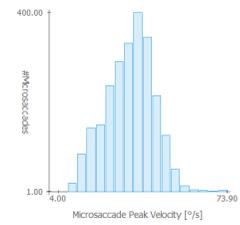
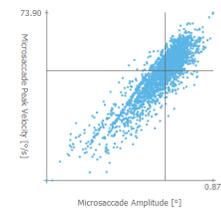
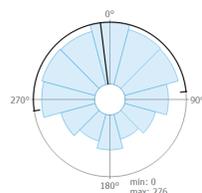
Velocity
window
= 15 samples

2838



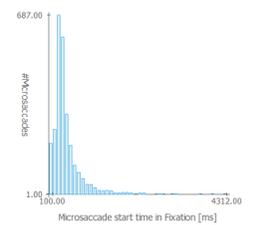
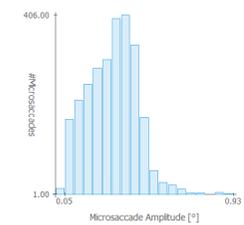
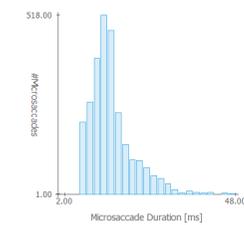
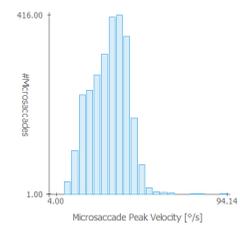
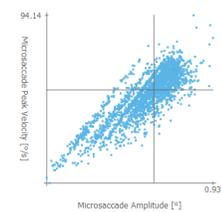
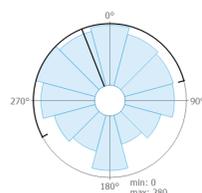
Time being
ignored
before/after
missing data
= 200 ms

2403



Binocular
(right eye)

2668



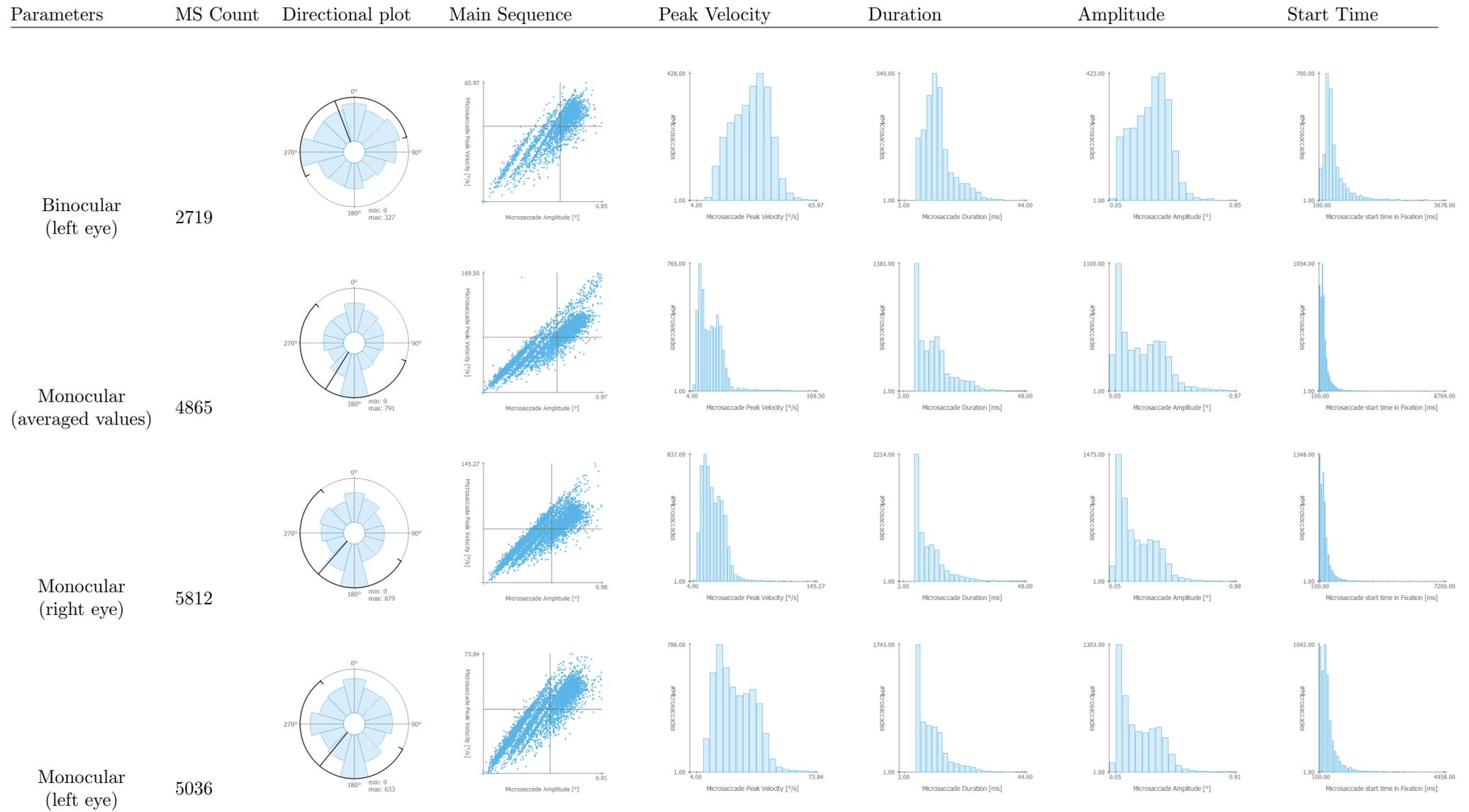
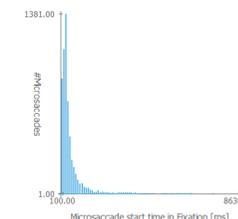
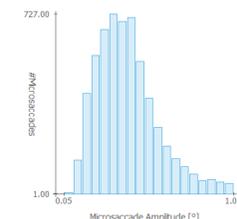
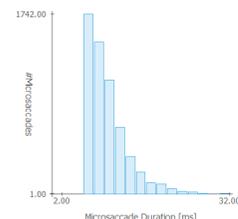
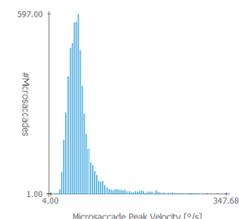
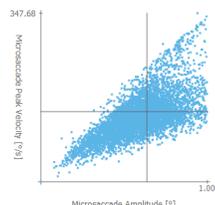
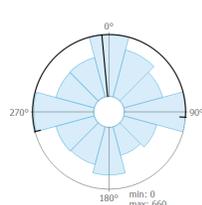


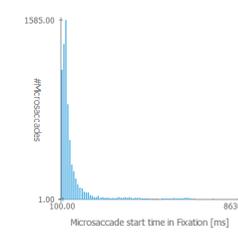
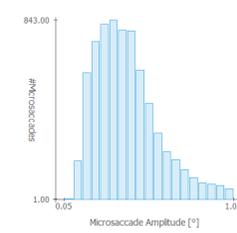
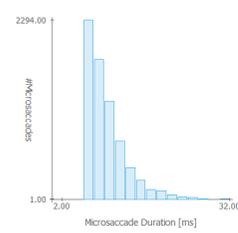
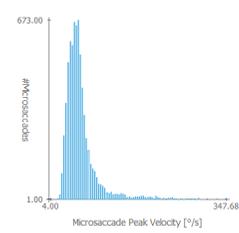
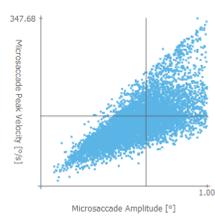
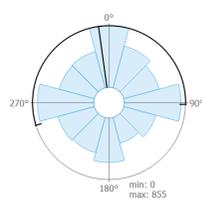
photo Data Set

Parameters MS Count Directional plot Main Sequence Peak Velocity Duration Amplitude Start Time

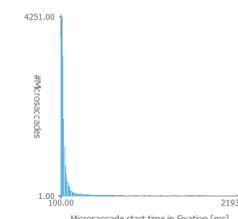
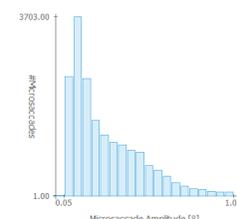
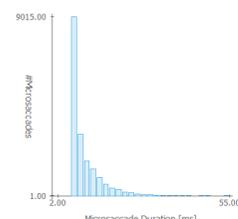
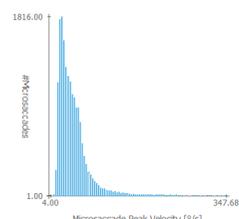
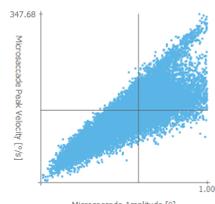
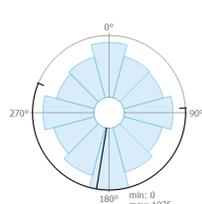
Default 5814



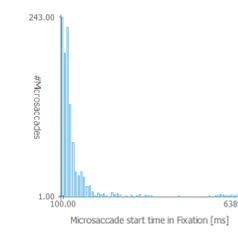
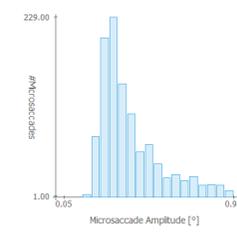
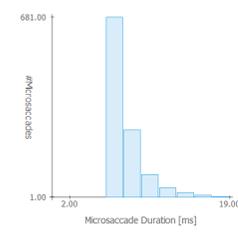
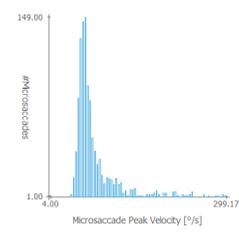
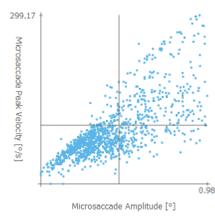
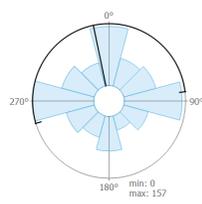
Time being ignored at beginning of fixation = 0 ms 7053



$\lambda = 3$ 17920



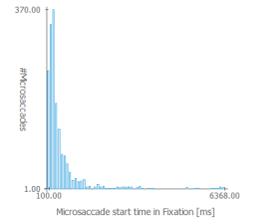
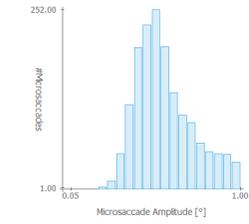
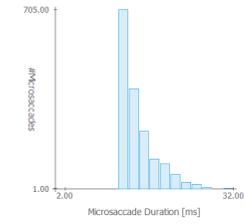
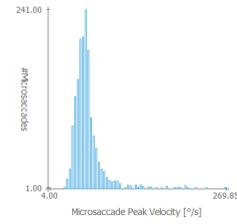
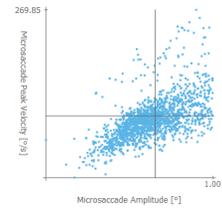
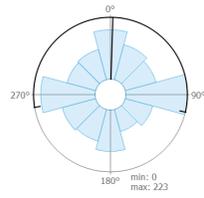
$\lambda = 10$ 1080



Parameters MS Count Directional plot Main Sequence Peak Velocity Duration Amplitude Start Time

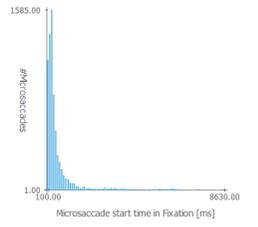
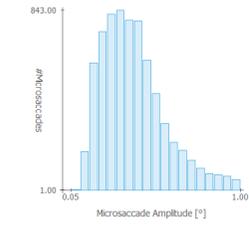
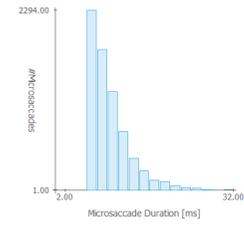
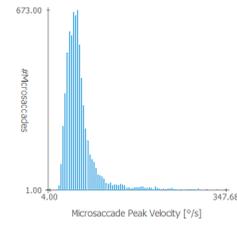
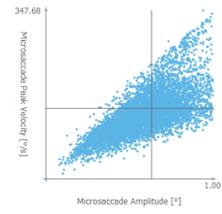
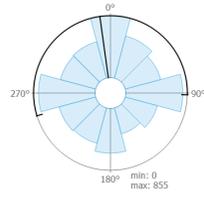
Min.
duration
= 12 ms

1640



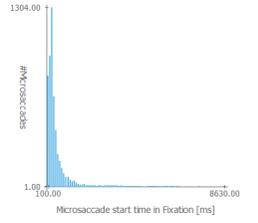
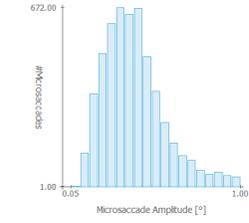
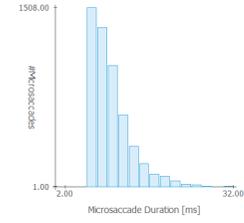
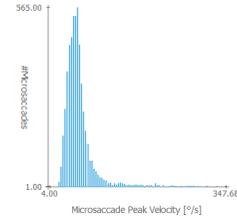
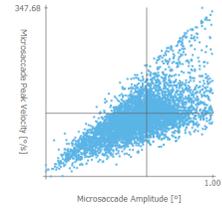
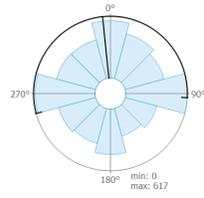
Inter-saccadic
interval
= 0 ms

7053



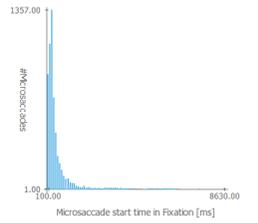
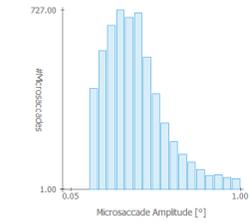
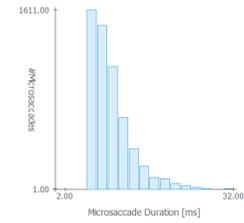
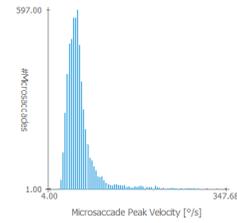
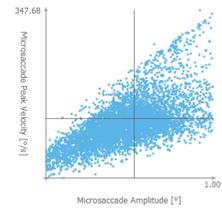
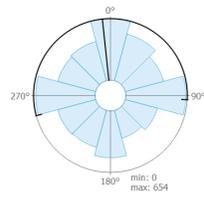
Inter-saccadic
interval
= 80 ms

5268



Minimum
amplitude
= 0.15°

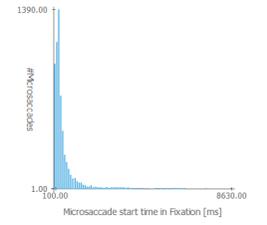
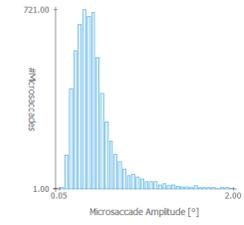
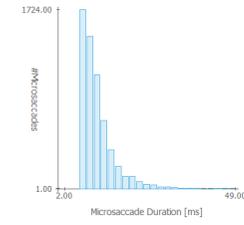
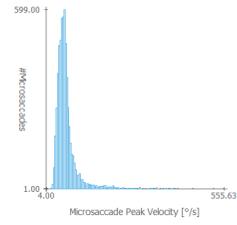
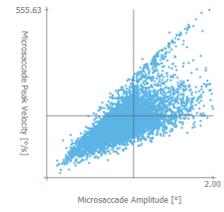
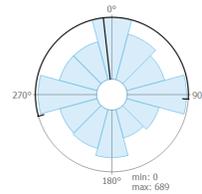
5687



Parameters MS Count Directional plot Main Sequence Peak Velocity Duration Amplitude Start Time

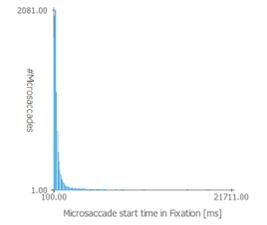
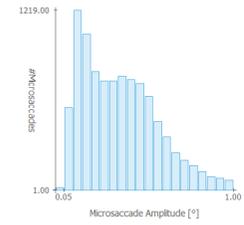
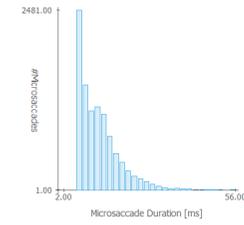
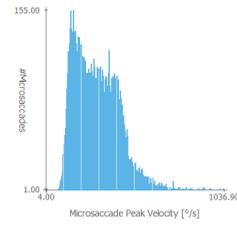
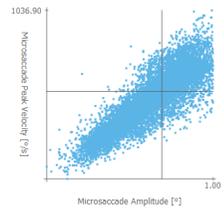
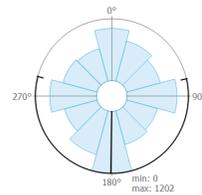
Maximum amplitude = 2°

5973



Velocity window = 15 samples

9792



Time being ignored before/after missing data = 200 ms

4852

