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Evaluating Multimodal Driver Displays for Drivers with Autism

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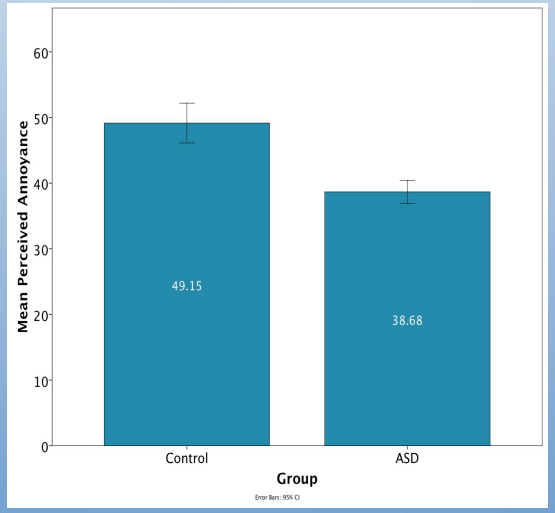
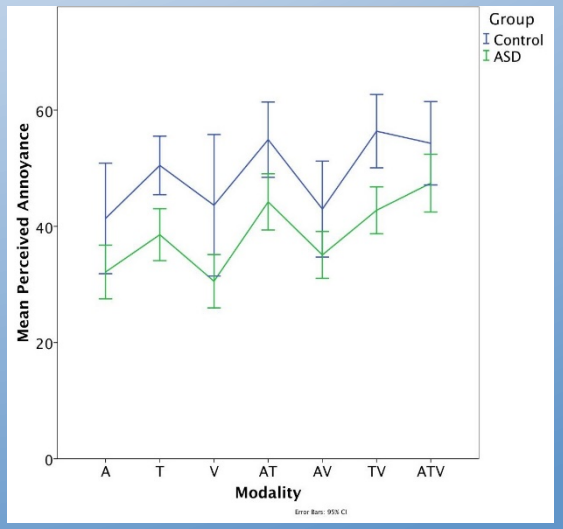
Setup

(a) Setup for Experiment 1
(b) Setup for Experiment 2
(c) Wrist band with Tactor
(d) Steering wheel with response buttons

Politis, Brewster & Pollick (2013). 'Evaluating Multimodal Driver Displays of Varying Urgency'. AutoUI 2013 Conference

Results





- Results from 10 participants (N=7 ASD, N=3 TD) on Experiment 1&2

I. Perceived Urgency = No group difference
II. Recognition Accuracy = No group difference
III. Recognition Time = No group difference
  - Quicker reactions in T/AT Modality and High Level
IV. <u>Perceived Annoyance = ASD group slightly lower</u>
  - High scores in T/AT/TV/ATV Modality