

The Autism Glass Project

at the Wall Lab, Stanford University School of Medicine



- Over 1 million children under the age of 17 in the US are on the autism spectrum.
- These children often times fail to recognize basic facial emotions, which make social interactions and developing friendships even more difficult to sustain.
- Gaining these skills requires intensive behavioral interventions that are often expensive, difficult to access, and inconsistently administered.





Social Cue Word, emoticon, or color on heads up display, or audio



- The Autism Glass team at Stanford is researching a solution.
- We have developed a system using machine learning and artificial intelligence to automate facial expression recognition that runs on wearable glasses and delivers real-time social cues.

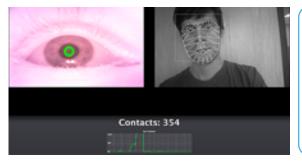






Glass App
Outward-facing camera
captures faces, inward-facing
eye tracker tracks gaze





- The novel Autism Glass system uses the outward-facing camera on the glasses to read facial expressions and provides social cues within the child's natural environment.
- It also records the amount and type of eye contact, which adds an additional layer for behavioral intervention.
- After a successful 40-person pilot study we are now embarking on the second phase of our research.
- Following our existing IRB-approved protocol, we will allow families of children with autism to use our device at home, with scheduled, periodic in-lab visits.

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