

AUTISM GLASS PROJECT

There is a dramatic increase in the prevalence of autism, where 1 in 68 children are diagnosed with Autism Spectrum Disorder (ASD). This greatly outweighs the number of clinicians available to provide therapeutic interventions. When families do receive interventions, especially those focused on social skills, they are typically conducted in a structured clinical setting, far removed from children's natural daily environments.

The Autism Glass Project seeks to provide a more immediate supplement to therapy by providing a mobile at-home therapeutic learning system, co-designed by children and families with autism, that can integrate seamlessly into their daily lives outside of the clinical setting.

Consisting of an interdisciplinary team based out of the Wall Lab in Stanford University's School of Medicine, the Autism Glass Project has developed an artificial intelligence tool for automatic facial expression recognition that runs on Google Glass through an Android app, which recognizes emotions in the faces of conversation partners and delivers real-time social cues to the wearer (children with autism). The app's interactive activities promote facial engagement and expression awareness, while tracking progress in eye contact and affect recognition. A parent review feature also allows for replaying interactions with highlighted emotional moments, enabling families to further reinforce lessons in social awareness.

Together, these features provide a novel mobile platform for social developmental intervention currently only available via clinical in-person sessions. By providing scalable, personalizable behavioral therapy at home, the Autism Glass Project aims to serve as a catalyst for much faster and more sustained gains in social acuity for children with autism. By bringing access to therapeutic tools out of the clinician's office and into the hands of families, we hope to empower families to quickly foster social awareness and skills their children can build upon independently well after using the device.

Interested in participating?

We're looking to recruit children who:

- ✓ are between the ages of **6-12** years old,
- ✓ have a clinical diagnosis of Autism Spectrum Disorder,
- ✓ and receive ABA therapy at least twice per week.

Sounds like your child? Here are the next steps...

1. Let your agency know that you are interested in participating.
2. Visit **autismglass.stanford.edu** to sign up.
3. Complete the Autism Glass screening and eligibility questionnaire at **autismglassrecruitment.stanford.edu**.
4. Have questions? Email the Autism Glass team at **autismglass.stanford.edu** or call them at **650-497-9214!**