

Stanford



Jen Haensel

Basic Life Research Scientist, Ophthalmology Research/Clinical Trials

Bio

BIO

I am a Research Scientist in the Roberts Vision Development & Oculomotor Lab at Stanford University's Department of Ophthalmology, working at the intersection of vision science, neuroscience, and experimental psychology. My current research uses eye-tracking, photorefractive, and psychophysics to study oculomotor development and visual function in amblyopia, strabismus, and concussion. I also work on developing methodology to record accommodative measurements and gaze behaviour in dynamic, naturalistic settings.

I completed my PhD in Experimental Psychology at Birkbeck, University of London (UK), where I used advanced eye-tracking techniques to study the influence of postnatal experience on social gaze behaviour. Prior to joining Stanford, I also worked as a postdoctoral researcher at the University of Bath (UK), developing empirical human-robot interaction studies to inform the ethical design of humanoid robots.

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Postdoctoral, Stanford University , Vision Science (2023)
- Postdoctoral, University of Bath , Computer Science (2020)
- PhD, Birkbeck University of London , Experimental Psychology (2019)
- MS, University College London and Birkbeck University of London , Educational Neuroscience (2015)
- MS, University of Sheffield , Cognitive Computational Neuroscience (2012)
- BS, University of Glasgow , Mathematics and Psychology (2011)

Publications

PUBLICATIONS

- **Strabismus and Amblyopia Incidence in Retinopathy of Prematurity patients followed at Stanford Medical Center**
Pitchayiah, P., Haensel, J. X., Koo, E., Roberts, T. L.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Accommodation and Vergence Responses to a Moving Stimulus in Concussion**
Haensel, J. X., Marusic, S., Slinger, K., Wu, C., Vyas, N., Baah, C., Hu, A., Leonen, J., Lew, C. Y., Srinivasan, G., Norouzpour, A., Jenewein, E., Meiyeppen, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024

- **Do looming tasks provoke eye symptoms following concussion?**
Wu, C. H., Marusic, S., Haensel, J. X., Slinger, K., Vyas, N., Baah, C., Hu, A., Leonen, J., Lew, C. Y., Srinivasan, G., Norouzpour, A., Jenewein, E., Meiyeppen, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Utility of Eye-Symptom Provocation in Assessment of Adolescent Concussion**
Raghuram, A., Haensel, J. X., Wu, C., Marusic, S., Slinger, K., Vyas, N., Baah, C., Hu, A., Leonen, J., Lew, C. Y., Srinivasan, G., Norouzpour, A., Jenewein, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Comparison of Push-Up versus Push-Out Accommodative Amplitude Measurement Methods in a Pediatric Population**
Marusic, S., Oke, I., Vyas, N., Haensel, J., Slinger, K., Jenewein, E., Meiyeppen, S., Scheiman, M., Roberts, T., Raghuram, A.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Accommodative Response in Astigmatic Children Aged 3 to <10 Years**
Haensel, J. X., Chen, A., Cotter, S. A., Lorenzana, I., Han, S., Lytle, A. A., Raghuram, A., Huang, K., Manh, V., Patel, R., Retnasothie, D., Jordan, L., Roberts, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Validation of the PowerRef 3 for Measuring Accommodation: Comparison With the Grand Seiko WAM-5500A Autorefractor.** *Translational vision science & technology*
Gehring, A. M., Haensel, J. X., Curtiss, M. K., Roberts, T. L.
2022; 11 (10): 25
- **Associations Between Distance Visual Acuity and Cycloplegic Refractive Error in Children Aged 5 to 9 Years**
Haensel, J. X., Jordan, L., Chen, A., Cotter, S. A., Lorenzana, I., Han, S., Aldrich, A. E., Raghuram, A., Huang, K., Manh, V., Patel, R., Retnasothie, D. V., Roberts, et al
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Cultural differences in mutual gaze during face-to-face interactions: A dual head-mounted eye-tracking study** *VISUAL COGNITION*
Haensel, J. X., Smith, T. J., Senju, A.
2021
- **Early bilingual experience is associated with change detection ability in adults.** *Scientific reports*
D'Souza, D., Brady, D., Haensel, J. X., D'Souza, H.
2021; 11 (1): 2068
- **Cultural influences on face scanning are consistent across infancy and adulthood.** *Infant behavior & development*
Haensel, J. X., Ishikawa, M., Itakura, S., Smith, T. J., Senju, A.
2020; 61: 101503
- **Affective priming enhances gaze cueing effect.** *Journal of experimental psychology. Human perception and performance*
Ishikawa, M., Haensel, J. X., Smith, T. J., Senju, A., Itakura, S.
2020
- **Is mere exposure enough? The effects of bilingual environments on infant cognitive development** *ROYAL SOCIETY OPEN SCIENCE*
D'Souza, D., Brady, D., Haensel, J. X., D'Souza, H.
2020; 7 (2): 180191
- **Culture modulates face scanning during dyadic social interactions** *SCIENTIFIC REPORTS*
Haensel, J. X., Danvers, M., Ishikawa, M., Itakura, S., Tucciarelli, R., Smith, T. J., Senju, A.
2020; 10 (1): 1958
- **Effect of methylphenidate on visual responses in the superior colliculus in the anaesthetised rat: Role of cortical activation** *JOURNAL OF PSYCHOPHARMACOLOGY*
Hetherington, L., Dommett, E. J., Turner, A. C., Riley, T. B., Haensel, J. X., Overton, P. G.
2017; 31 (10): 1347–61
- **A systematic review of physiological methods in rodent pharmacological MRI studies** *PSYCHOPHARMACOLOGY*
Haensel, J. X., Spain, A., Martin, C.

