

Post-Doctoral Fellowship

Hidden binocularity and visuomotor function after congenital cataracts.



Principle Investigators: Xiaoqing Gao, Haotian Lin, Daphne Maurer,
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We are seeking an outstanding postdoctoral fellow to lead this CIHR-funded project. Our interdisciplinary project uses psychophysical approaches to explore binocular visual function along with eye and limb tracking to expose a relation between residual visual function and visuomotor coordination. The team brings together expertise in vision, multisensory perception, motor systems, development, visual impairments, and clinical treatment.

The successful candidate will coordinate participant recruitment and data collection across multiple sites (U of Waterloo, McMaster, SickKids Toronto) for several already planned experiments that assess binocularity and visuomotor function. Simultaneously, the candidate will work with the research team to design new experimental paradigms to understand multisensory reorganization and the potential contribution of visual and haptic feedback during reaching and grasping in rehabilitation. Prior experience in designing and conducting psychophysical experiments and/or collection and analysis of human kinematics is essential; no prior background in deprivation amblyopia is expected.

The position is initially for one year, with an expectation of renewal for up to four more. The position is fully funded and salary is commensurate with experience. We hope to start the position November 1, 2022 and will interview candidates as applications are received. We are strongly committed to diversity on our research team and especially welcome applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ2S+ persons, and others who may contribute to the further diversification of team.

To apply, please send a cover letter, your cv, and a list of three references that we can contact to David I. Shore <multisensory@mcmaster.ca> . Pre-submission inquiries welcome.

