1 in 6 have learning & attention issues including DYSLEXIA, 75% are unidentified…

Selected Outreach

Policy: Dept of Ed, White House
Conferences: EdRev, Innovative Learning Conference (ILC), Int’l Mind, Brain & Education Society (IMBES), Int’l Dyslexia Association (IDA), Learning & the Brain
UCSF brainLENS Seminar Series
Others: Bay Area Discovery Museum (BADM)’s Center for Childhood Creativity (CCC), SFUSD and other schools, NPOs such as Breakthrough Collaborative

Special Thanks to Our Funders

Anonymous Donors
Bay Area Discovery Museum (BADM)’s Center for Childhood Creativity (CCC) including Liebe Patterson
UCSF Child & Adolescent Psychiatry, Clinical & Translational Science Institute (CTSI), Academic Senate, Digital Health, Radiology
Stanford Center for Cognitive & Neurobiological Imaging (CNI)
NIH through Univ Conn (Prof Jay Rueckl), Vanderbilt Univ (Prof Laurie Cutting), Yale Univ Haskins Labs (Prof Ken Pugh), UC Davis MIND Institute (Prof David Amaral, Prof Christine Wu Nordahl)
UCSF Dyslexia Center including Flora Family Foundation, and Steve Carnevale.

Fund a Need
http://brainlens.org/involve

Your generous gift is appreciated in any amount. The following are needs for particular projects.

$10,000 level
- Summer interns: For underserved undergraduate & graduate students.

$30,000 level
- Online IE* assessment tool-kit:
  National dissemination of the most comprehensive assessment of its kind to date.
- IE* enhancement programs:
  Development and implementation cost.

$200,000 level
- Eye to Eye Partnership: Evaluation of renowned mentoring program for underserved kids and adolescents with learning difficulties.

Above $200,000 level
- UNESCO UniSkript Global Literacy Initiative: An innovative and new writing system & mobile-based technology to eliminate global illiteracy.
- Multi-Institutional Center of Innovative Technology for Education & Learning (ClInTEL): Support a new initiative between Stanford, UCSF, Berkeley, Davis, Merced, San Diego
  * Internal Environment (IE): A term we coined that includes constructs such as grit, motivation, mindset, resilience & sense of belonging.

Cover photo: Two young children in our “Hall of Brain: Certified Brain Scientist” T-shirt
Back photo: Brain scans of 50 kindergarten children in our research program as a brain collage

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Our Scientific Mission is to understand how children’s brains develop in order to maximize potential to succeed in life. Drawing on innovative neuroscience research approaches, we combine neuroimaging, genetic, and computational techniques to study how each child develops in domains such as reading, math, motivation, resilience, and creativity. We have a particular emphasis on dyslexia, as well as autism.

Our Outreach Mission is to share the love of neuroscience with children of all ages, rapidly translate research findings to practice, and collaborate with teachers, clinicians, and families. For example, brainLENS has traditionally accepted interns with learning and attention issues. We develop curricula & provide seminars & workshops to students, educators, and clinicians.

Examples of Our Research

- Neuroscience of internal environment (IE)* such as grit, motivation, mindset, and resilience.
- How do we inherit brain networks, cognitive and character traits? Research on intergenerational transmission patterns using a natural cross-fostering design, genetics & imaging.
- Genes to cognition. Research to understand auditory processing, dyslexia & related disabilities using a comprehensive approach from genes, neurochemicals, oscillations, connectomes, to cognition.
- Early identification & personalized education. Development of a comprehensive school-readiness app from reading, math, executive function, character traits and creativity. Development of neuroimaging-based models to predict learning profiles and risk for developing disorders before they can be identified using conventional methods.
- Identification of novel subtypes of dyslexia using data-driven approaches.
- Examination of relative strengths of dyslexia.

Fumiko Hoeft MD PhD is a developmental cognitive neuroscientist and Associate Professor of Child Psychiatry at UCSF. She is also a Board Member of the UCSF Dyslexia Center, Scientific Advisor to the BADM’s Center for Childhood Creativity (CCC), and research scientist at Haskins Labs at Yale Univ. Dr. Hoeft received training at Keio Univ, Harvard, Caltech & Stanford, and has won awards from organizations such as Learning & the Brain FDN, Int’l Mind Brain & Education Society (IMBES), Int’l Dyslexia Association, Brain & Behavior Research FDN, and NIH. Her work has been covered in media such as NPR and the New Yorker.

Partners

UNESCO; BADM’s Center for Childhood Creativity (CCC); Eye to Eye; UniSkript Research & Literacy Institute (URLI); Charles Armstrong School; Nueva School; Synapse School; Basque Center on Cognition Brain & Language (BCBL); Beijing Normal U; Boston College; Copenhagen U; Georgia State U; Harvard U Boston Children’s Hospital; Hebrew U; India National Brain Research Center (NBRC); Karolinska Institutet; Keio U; MIT; Stanford U; U of British Columbia; UC Berkeley; UC Davis; UC Merced; UCSF; UCSF Dyslexia Center; U College London; U of Connecticut; U of Hong Kong; U of Jyvaskyla; U of Michigan; U of Taiwan; U of Zurich; Vanderbilt U; Yale U Haskins Labs

Illiteracy leads to poverty and compromised health...
Yet 1 in 5 in the world cannot read or write...