

# FUNDING PRIORITIES FOR THE JOHNS HOPKINS SCIENCE OF LEARNING INSTITUTE

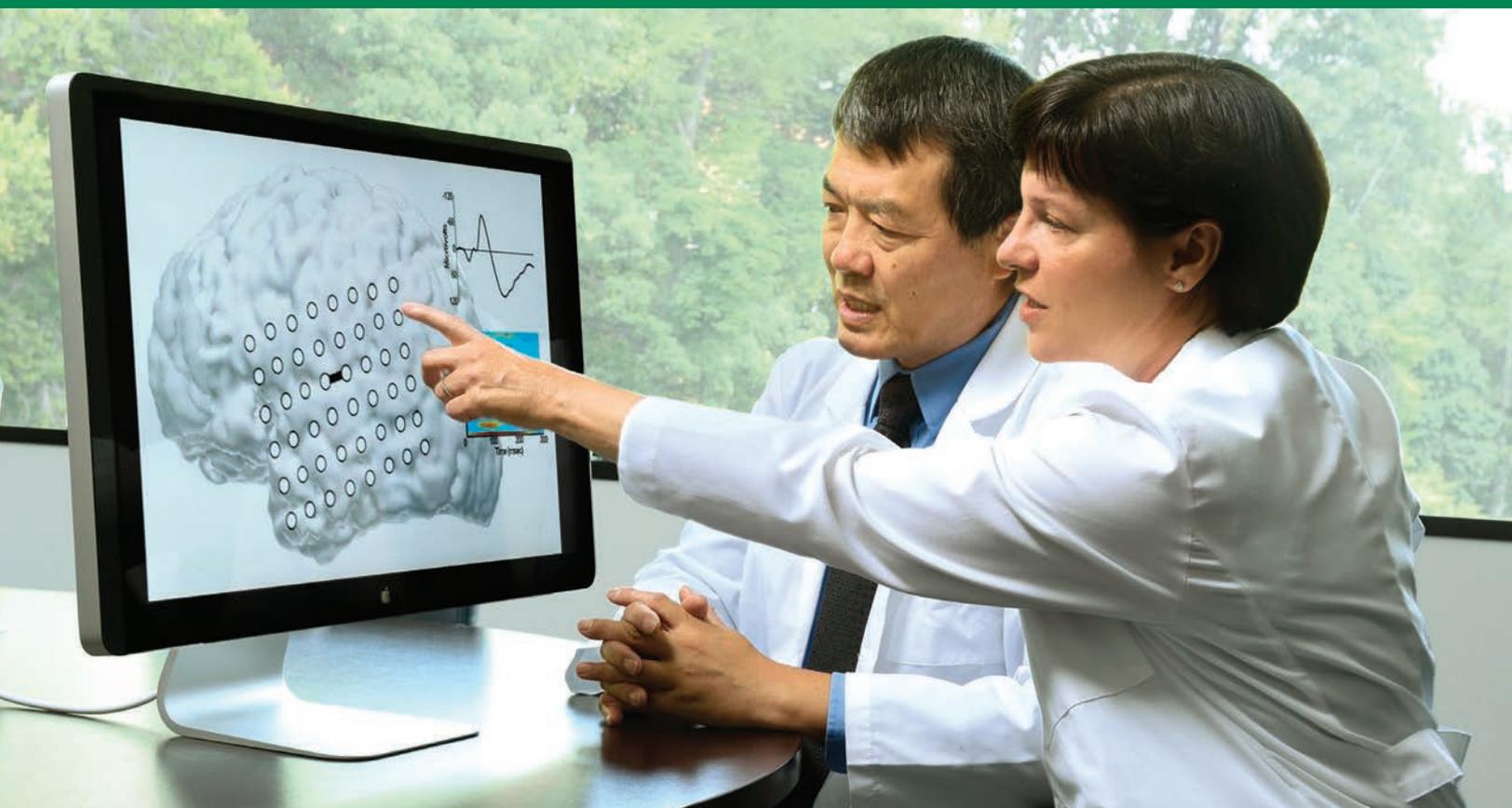
*“Philanthropic seed funding allowed us to establish new multidisciplinary research collaborations, combining advanced signal processing and computational techniques, to study the neural basis of human auditory perception — a fundamental component of language learning. Early support from donors enabled us to demonstrate the value of our approaches, acquire pilot data for additional funding, and advance the science of learning.”*

Dana Boatman, PhD, CCC-A  
Professor, Neurology and Otolaryngology

Xiaoqin Wang, PhD (Med '91)  
Professor, Biomedical Engineering, Neuroscience, and Otolaryngology



THE CAMPAIGN FOR JOHNS HOPKINS



## BUILDING A BOLD AND PROMISING INITIATIVE — WITH YOUR SUPPORT

The Johns Hopkins Science of Learning Institute is an ambitious, multidisciplinary effort to understand learning in all its phases and manifestations, train the learning experts of the future, and apply our research in local and global partnerships. We seek your generous support in these key areas, plus an endowed directorship.

### Seed Grants to Foster Highly Innovative Ideas

The institute's seed grant-supported research program, based on an originating gift by an anonymous donor, is already proving to be a fertile source of new multidisciplinary ideas, bringing together researchers across Johns Hopkins to explore and test innovative ideas. Your gift will enable us to build the program further, addressing a wide range of topics such as how the brain changes through learning, how development and aging affect our ability to learn, how neurological and psychiatric diseases disrupt or change learning, why there are such vast individual differences that occur naturally among learners, and how machines and humans can partner to enhance human learning. Funded projects must involve researchers from at least two Hopkins schools, ensuring a multidisciplinary approach; often projects provide support for pre- and postdoctoral associates who work with our researchers. All grants are evaluated for their potential to generate further external funding.

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#### Science of Learning Seed Grant Fund

Supports the awarding of 10 grants, each lasting two years \$2.2 million

### Fellowships to Train Future Leaders

Pre- and postdoctoral associates come to us highly trained in their respective disciplines, with interests in such areas as improving working memory and attention, strengthening language functions in autism, and understanding "expertise." Yet beyond this foundation they need experience in conducting multidisciplinary research and in translating and communicating their findings to a wide variety of lay and professional audiences. The two-year Distinguished Science of Learning Fellowship, backed by your philanthropic support, provides this additional level of training and produces leaders prepared to advance the field. Our goal is to offer 10 new fellowships over five years, expanding both our current cohort and the institute's impact as these young scientists pursue their careers around the country. Each fellow's research project must be based in at least two Hopkins schools, with faculty mentors from each; fellows must participate in at least one seminar on translation and dissemination.

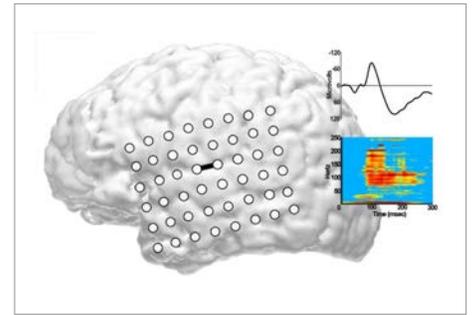
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#### Distinguished Science of Learning Fellowship Fund

Supports the awarding of 10 fellowships, each lasting two years \$2 million

### Putting Research into Practice

The Science of Learning Institute is distinguished by our interdisciplinary approach, our training program, and our mission to effect change — to advance the understanding and utilization of our research by parents, educators, caregivers, policy-makers, and business leaders. To achieve this mission, we build partnerships between our researchers and the broader community so that our research informs practice and practice informs our research.



With our partners, we seek to understand their needs and identify relevant research carried out by our faculty and others; translate our research into evidence-informed, targeted practices; and evaluate the impact of those practices for their needs and ours. We also work with faculty and institute fellows to develop translation and dissemination plans for their research and public scientific presentations, increasing awareness and understanding of their work by the public. Your gift will build the fund that helps us bring our research, and researchers, to the world.

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#### Translation and Outreach Fund

Supports programs to develop partnerships, apply and evaluate research, and increase awareness of our work \$1 million

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#### Endowed Directorship

Provides permanent salary support for the institute director \$3 million

### CONTACT US TODAY

To make a gift to the Science of Learning Institute, please contact:

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COVER: DANA BOATMAN AND XIAOQIN WANG REVIEW INTRACRANIAL AUDITORY RECORDINGS TO INVESTIGATE HOW THE HUMAN BRAIN PROCESSES NOVEL AND FAMILIAR SOUNDS. THEIR RESULTS SHOW THAT CORTICAL AUDITORY RESPONSES ENHANCE FOR NOVEL SOUNDS, INCLUDING NON-NATIVE SPEECH SOUNDS, AND DIMINISH FOR REPEATED FAMILIAR SOUNDS, POTENTIALLY FACILITATING SPEECH PERCEPTION IN NOISY ENVIRONMENTS.