



Boston Children's Hospital and Harvard Medical School The Translational Post-Doctoral Training Program in Neurodevelopment (Neurodevelopmental T32 Fellowship)

Program Description

Two-year fellowships funded by the National Institute of Mental Health (NIMH) are available for researchers who seek to improve or expand their ability to conduct interdisciplinary investigation in translational neuroscience research in neurodevelopment and neurodevelopmental disorders. To accomplish this goal, additional training beyond an MD or PhD is required.

Research Areas

Postdoctoral projects can encompass basic and/or clinical research and might include investigation into one or more of the following areas:

- ❖ Molecular or behavioral neurogenetics
- ❖ Neuroimaging
- ❖ Neurobiology
- ❖ Developmental psychopathology
- ❖ Rare neurogenetic disorders
- ❖ New diagnostic methods
- ❖ Outcomes research
- ❖ Interventional studies

Program Areas/Faculty Department Affiliations

Fellows with MD or PhD degrees conduct research during the program with mentors/advisors from the following areas:

- ❖ Neurology
- ❖ Neurobiology
- ❖ Neuroscience
- ❖ Developmental/Behavioral Pediatrics
- ❖ Psychiatry and Behavioral Sciences
- ❖ Genetics
- ❖ Psychology
- ❖ Neuroradiology
- ❖ Neurosurgery
- ❖ Computer Science



Trainee Program

This two-year training program provides trainees with the essential guidance, training, and mentoring critical to launching a career in academic research. The training program starts by recruiting the most talented trainees from MD/PhD, MD, and PhD programs who are interested in pursuing a career in translational neuroscience research and academia. Close interaction between T32 mentors and trainees are supplemented by a structured training program that provides a common knowledge base with respect to translational neuroscience research. Supplemental work will focus on Translational Neuroscience Seminar Series and Proseminars complemented by trainee specific coursework. Administratively, the program consists of three co-directors (Drs. Nelson, Glahn & Sahin) and a group of 20 highly skilled and successful training faculty from diverse array of disciplines.

How to Apply

Applicants should be nominated by their post-doctoral research mentor or their current training program director. The nominator should submit one PDF via email to T32translationaldevelopment@childrens.harvard.edu with the following documents: **(1) trainee's CV, (2) list of trainee's other support (need to be at least 80% available for the T32), (3) trainee's statement (max 2 pages) about research interest and specifically why they have selected this training grant, and (4) names and contact information of 2 potential letter writers.** Project proposals should clearly state the interdisciplinary nature of the project. *If selected for an interview, we will also require: (5) 2 letters of support (one from trainee's mentor) and (6) mentor's other support document.*

Applications should be submitted by **March 15, 2024**, with the expectation that trainees will be selected by **April 30** and will start in **July 2024**. Applicants must be U.S. citizens or permanent residents with an MD and/or PhD (must be completed at the time training begins). Commitment to the goals of the program and strong academic and research credentials are important criteria used in the selection process.

Further inquiries can be made by reaching out to us directly at T32Translationaldevelopment@childrens.harvard.edu.

Faculty Mentors

Mentor Name/Degree Affiliation	Rank	Primary (& Secondary) Appointment(s)	Research Interest
Charles A. Nelson, PhD Harvard Medical School, Boston Children's Hospital	Professor	Pediatrics and Neuroscience, Psychiatry	Developmental Cognitive Neuroscience
Mustafa Sahin, MD, PhD Harvard Medical School, Boston Children's Hospital	Professor	Neurology, Neurobiology	Neurodevelopmental Disorders, Neuronal Connectivity
David Glahn, PhD Harvard Medical School, Boston Children's Hospital	Professor	Psychiatry	Neuropsychiatric Genetics, Affective and Psychotic Disorders
Anne Arnett, PhD Harvard Medical School, Boston Children's Hospital	Assistant Professor	Developmental Medicine, Pediatrics	Neurodevelopmental Disorders, Brain-based biomarkers, ADHD
Mark Bear, PhD MIT	Professor	Brain and Cognitive Sciences	Neuroscience



<u>Michelle Bosquet Enlow, PhD</u> <i>Harvard Medical School,</i>	Associate Professor	Psychiatry	Neurodevelopmental Disorders
<u>Stacy Drury, MD, PhD</u> <i>Harvard Medical School, Boston Children's Hospital Children's Hospital</i>	Professor	Psychiatry	Neuropsychiatric Genetics
<u>Elizabeth Engle, MD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Professor	Neurology, Ophthalmology, and Genetics and Genomics	Aberrant Cranial Motor Neuron Development
<u>Michela Fagiolini, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Associate Professor	Developmental and Behavioral Pediatrics	Neurodevelopmental Disorders
<u>Susan Faja, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Assistant Professor	Pediatrics and Psychology	Neurodevelopmental Disorders
<u>Brielle Ferguson, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Assistant Professor	Genetics and Genomics	Biomarkers of cognitive function
<u>Nadine Gaab, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Associate Professor	Pediatrics	Cognitive Neuroscience, Auditory and Language Processing
<u>John Gabrieli, PhD</u> <i>MIT, Harvard Medical School</i>	Professor	Brain and Cognitive Sciences	Cognitive Neuroscience
<u>P Ellen Grant, MD, MSc</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Professor	Radiology and Pediatrics	Fetal-Neonatal Neuroimaging and Developmental Science
<u>Takao Hensch, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Professor	Neurology	Development of Neural Circuits
<u>Maria Jalbrzikowski</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Assistant Professor	Psychiatry	Neuroimaging-based markers of psychosis risk
<u>Jonathan Lipton, MD, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Assistant Professor	Neurology	Neurodevelopment and Circadian Rhythms
<u>Alexander Rotenberg, MD, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Professor	Neurology	Brain Injury and Epilepsy
<u>Beth Stevens, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Associate Professor	Neurology	Synapses, Neuron-glia and Neural- immune Interactions
<u>Mriganka Sur, PhD</u> <i>MIT</i>	Professor	Brain and Cognitive Sciences	Learning and Memory



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<u>Helen Tager-Flusberg, PhD</u> <i>Boston University</i>	Professor	Psychological and Brain Sciences	Neurodevelopmental Disorders
<u>Christopher Walsh, MD, PhD</u> <i>Harvard Medical School, Boston</i>	Professor	Pediatrics and Neurology, Genetics and Genomics	Neurodevelopmental Disorders, Brain Development, Evolution, and Function
<u>Timothy Yu, MD, PhD</u> <i>Harvard Medical School, Boston Children's Hospital</i>	Associate Professor	Genetics and Genomics	Neurodevelopmental and Neurogenetic Diseases