

National Science Foundation-Gallaudet University Science of Learning Center, Visual Language and Visual Learning (VL2)

About the Ph.D. in Educational Neuroscience Program

Growing from our mission to educate the next generation of students, scholars in our National Science Foundation-Gallaudet University Science of Learning Center, Visual Language and Visual Learning (VL2) created the pioneering Ph.D. in Educational Neuroscience (PEN) Program. The PEN program encompasses research in how humans learn across the lifespan, from infants to adults, with a special interest in the neuroplasticity of visually-guided learning that contributes to language learning and bilingualism, reading and literacy, and higher cognitive processes (such as action perception, math and numeracy, memory and attention, emotional and social development, and more). The PEN Program at Gallaudet University further provides a unique strength in groundbreaking scientific discoveries about learning that have important translational significance for the education of all children, especially young visual learners.

Proud Sponsors

The 2020-2021 PEN Distinguished Lecture Series in Educational Neuroscience is sponsored by the Ph.D. in Educational Neuroscience (PEN) Program, the National Science Foundation-Gallaudet University Science of Learning Center, Visual Language and Visual Learning (VL2); and Gallaudet University. We wish to specifically thank the William H. and Ruth Crane Schaefer Endowment for supporting our Distinguished Lecturers funding.

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Distinguished Lecture Series

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The Ph.D. In Educational Neuroscience (PEN) Program and Gallaudet University are proud to announce the

2020-2021

PEN Distinguished Lecture Series in Educational Neuroscience

THEME:

Meet the Scientist, a Friendly Interview

This series honors world-renowned scientists and aims to form a bridge between basic science discoveries and their meaningful benefits for society.

This year, all lectures will be virtual and videos will be released on our VL2 website at <https://www.facebook.com/VL2Science>



About This Year's Presenters

This high-profile lecture series honors our presenters, true pioneers in science - who work in a variety of sister disciplines to Educational Neuroscience. This year's special online edition will be presented as a "Meet the Scientist, a Friendly Interview". Our guests will virtually open the doors to their research labs and share their field-advancing discoveries. In this "Meet the Scientist" format, our PEN graduate students will engage in an interview-like interaction with these distinguished scholars. Through this series of Q&A's, released on the PEN and VL2 social media platforms, we hope our followers will be able to learn how science supports the betterment of society.

Release website: <https://www.facebook.com/VL2Science>

The PEN program's Distinguished Lecture Series in Educational Neuroscience honors researchers who have changed the landscape of science. We invite them to share their discoveries as we forge new links across research communities within Gallaudet University, Washington D.C., and the world.

Presenters



Iconicity and human languages

Dr. Carol Padden

University of California, San Diego, USA

October 22, 2020

Dr. Carol Padden has been on the faculty at University of California, San Diego in the Department of Communication since 1983, when she earned her Ph.D. from the university's Department of Linguistics.

Padden holds the Sanford I. Berman Chair in Language and Human Communication, served as associate dean and faculty equity advisor in the Division of Social Sciences from 2008 to 2013. In 2014, she was tapped to be the Dean in the Division of Social Sciences. As dean, Padden leads a dynamic and highly ranked academic division spanning 10 academic departments and 6 interdisciplinary programs, with student enrollments totaling over 90,000 in the last year. The division has over 900 majors, nearly 40% of all majors at UC San Diego. Among the most recent initiatives in the division are new majors in Real Estate and Development, Education, and Climate Change. Padden's areas of research include language emergence, sign language structure, and cultural life in deaf communities. With her husband, Professor Tom Humphries, she is a co-author of 2 textbooks on American Sign Language and 2 books on deaf communities in the US. She is a Fellow of the Linguistic Society of America and the American Academy for the Advancement of Science. In 2010, she received a MacArthur Fellowship.



Little liars: How children learn to tell lies?

Dr. Kang Lee

University of Toronto, Canada

December 3, 2020

Dr. Kang Lee is a professor at the University of Toronto and Tier 1 Canada Research Chair in developmental neuroscience, and a senior scientist (Professor rank) at the Department of Psychology, University of California, San Diego. For over two decades, Dr. Lee has studied how children learn to tell lies using

behavioral, computational, and neuroimaging methodologies. His work has led to legal reforms in Canada. Since 2006, child witnesses under 14 years of age must follow a procedure based on the work from his lab before being admitted to testify in the criminal court in Canada. He is one of the inventors of Transdermal Optical Imaging, a revolutionary contactless technology that images facial blood flows to decode physiological and psychological activities. He holds several patents that use video cameras to detect heart rate, stress, blood pressure, and deception. Dr. Lee is also a TED speaker with his talk receiving nearly 8 million views. Dr. Lee is a recipient of Premiers Research Excellence Award and Leaders Opportunity Awards. Dr. Lee has published over 300 peer-reviewed papers and his research has been funded by NIH and NSF in the US, NSERC and SSHRC in Canada, and NSFC in China.



Developmental Cognitive Neuroscience in the Era of Big Data

Dr. Damien Fair

University of Minnesota, USA

February 18, 2021

Dr. Damien Fair is originally from Winona, Minnesota. He obtained his BA degree in 1998 from Augustana College in Sioux Falls, SD and his master of medical science degree in 2001 from the physician associate program at the Yale University School of Medicine. From 2001–2003, Dr. Fair joined the neurology department at Yale–New Haven Hospital and practiced as a physician assistant under the direction of Lawrence Brass, M.D. Subsequently, he entered the neuroscience graduate program at the Washington University School of Medicine in St. Louis under the primary guidance of Bradley Schlaggar, M.D., Ph.D. and Steven Petersen, Ph.D. Dr. Fair continued on to do his postdoctoral fellowship at Oregon Health and Science University with Joel Nigg Ph.D., and Bonnie Nagel, Ph.D. where he spent 10 years as the principal investigator of the Developmental Cognition and Neuroimaging (DCAN) Labs and a champion for diversity, equity and inclusion efforts. Dr. Fair is currently a founding Co-Director of the Masonic Institute for the Developing Brain (MiDB) at the University of Minnesota.



Educating for brain health and humanity

Dr. Alvaro Pascual-Leone

Beth Israel Deaconess Medical Center & Harvard University, USA

March 25, 2021

Dr. Alvaro Pascual-Leone, M.D., Ph.D., is a behavioral and cognitive neurologist and neuroscientist. He serves as director of the Berenson-Allen Center for Noninvasive Brain Stimulation and chief of the Division of Cognitive Neurology at Beth Israel Deaconess Medical Center (BIDMC). He is an associate dean for clinical and translational research and a professor of neurology at Harvard Medical School (HMS). Dr. Pascual-Leone is a world leader in the development, research, clinical application, and teaching of a noninvasive brain stimulation technologies, including Transcranial Magnetic Stimulation (TMS) and transcranial electric stimulation (tES). His contributions span from technology development, through basic neurobiologic insights from animal studies and modeling approaches, to human proof-of-principle and multicenter clinical trials. Dr. Pascual-Leone has authored more than 750 scientific papers (h-index 164; i10-index 613) as well as several books and is listed as the inventor on 17 patents. Thompson Reuters has recognized Dr. Pascual-Leone as one of World's Most Influential Scientific Minds, and one of the world's top 15 neuroscience researchers. He has been honored with many international awards for both his research and teaching, and is an elected member of the Spanish Royal Academy of Science.



Spaceflight and Spatial Orientation: The Role that Gravity Plays

Millard F. Reschke

NASA Neuroscience at NASA Johnson Space Center

TBA

Dr. Reschke began his career with NASA during the final Apollo flights and continued as Principal and Co-Investigator, Mission Scientist, Project Scientist on Apollo Soyuz, Skylab, over 120 Shuttle Flights, Shuttle-Mir, and ISS. He initiated NASA's parabolic flight program at JSC, managing Life Sciences on that plane for 18 years. He currently serves as NASA's Chief of Neuroscience with responsibility for investigating astronaut health related to neural changes as a function of space flight. He has been instrumental in representing international flight programs with ESA, DLR, CNRS JPL, CNES, RSA and major universities around the world. Current work centers around the evaluation of changes in human sensory function and the impact that modification in vestibular and related sensory changes have on functional behavior immediately after crew return from the International Space Station with the aim of developing countermeasures for future exploratory missions (Mars and Moon landings). Dr. Reschke was awarded NASA's Distinguished Service Medal, NASA's highest form of recognition who, by distinguished service, ability, and vision has personally contributed to NASA's advancement of United States' interests.