



DATA SCIENCE & ARTIFICIAL INTELLIGENCE INITIATIVE WORKSHOP ON ADJUDICATION OF AI

Neurotechnologies, Brain Function & Cognition Evidence

JUNE 5 - 7, 2024 · RALEIGH, NORTH CAROLINA

Biographical Sketches for Presenters



National Courts and Sciences Institute



State Justice Institute

GARY W. LYNCH retired in 2022 after serving over sixteen years as a judge on the Missouri Court of Appeals, Southern District, during which he served two terms as Chief Judge. Before that, he served three years as Associate Circuit Judge in Polk County, Missouri, following twenty-five years in the private practice of law. He is a former President of the Council of Chief Judges of the State Courts of Appeal and served six years as a member of the Board of Directors of the National Center for State Courts. While on the Court of Appeals, among other numerous committee assignments, he served seven years as chair of the Missouri Court Automation Committee, which is responsible for developing, implementing and maintaining Missouri's state-wide court automation system. Upon his retirement, he was designated by the Supreme Court of Missouri as a Senior Judge for special case assignments by the Court. In addition, he currently is serving as Curriculum Coordinator for the Data Science and Artificial Intelligence Strategic Initiative of the National Courts and Sciences Institute.

ROBERT A. HEVERLY is an associate professor of law at Albany Law School. He joined the faculty at Albany in 2010 having taught at both the Michigan State University College of Law and the University of East Anglia's Norwich Law School. Before joining the academy, Professor Heverly worked at the Government Law Center of Albany Law School. He teaches courses such as Torts and Advanced Torts, Drone Law & Policy, and Cyberspace Law, among others. He has published articles on drone law, artificial intelligence, intellectual property law, and is currently researching legal issues in quantum networking and human augmentation. He is a Fellow with the Center for Quantum Networks and an Affiliated Fellow at Yale Law School's Information Society Project.

KENT A. KIEHL is a professor in the Department of Psychology at the University of New Mexico, Albuquerque, and has secondary appointments as a professor in the Department of Neurosciences and the School of Law at that university. He received his Ph.D. from the University of British Columbia in Psychology and Neuroscience in 2000, and then served as an assistant and associate professor in the Department of Psychiatry at Yale University School of Medicine before joining the University of New Mexico faculty in 2007. He is the Executive Science Officer and the Director of Mobile Imaging and Clinical Cognitive Neuroscience at the nonprofit Mind Research Network, an affiliate of Lovelace Biomedical and Environmental Research

Institute, Albuquerque, New Mexico. Professor Kiehl's laboratory has worked with correctional facilities in New Mexico and beyond to establish the world's largest database of brain data from incarcerated populations, research instrumental in the investigation of mental health issues that are particularly prevalent in those who are incarcerated, including psychopathy, antisocial personality disorder, substance abuse, and externalizing disorders.

TOR D. WAGER is the Diana L. Taylor Distinguished Professor in Neuroscience at Dartmouth College. He received his Ph.D. from the University of Michigan in cognitive psychology in 2003, and served as an assistant (2004-2008) and the associate professor (2009) at Columbia University, and as associate (2010-2014) and full professor (2014-2019) at the University of Colorado, Boulder. Since 2004, he has directed the Cognitive and Affective Neuroscience laboratory, a research lab devoted to work on the neurophysiology of affective processes—pain, emotion, stress, and empathy—and how they are shaped by cognitive and social influences. Dr. Wager and his lab are also dedicated to developing analytic methods for functional neuroimaging. They are committed to sharing ideas, tools, and scientific data with the scientific community and public.

JAMES R. BLAIR is the Director of the Center for Neurobehavioral Research at the University of Copenhagen, Denmark. He is an expert in the neurobiology of emotion, aggression and antisocial behavior and has published more than 200 scientific manuscripts on these and related topics. Dr. Blair received a doctoral degree in Psychology from University College London in 1993 under the supervision of Professor John Morton. Following graduation, he was awarded a Wellcome Trust Mental Health Research Fellowship that he held at the Medical Research Council Cognitive Development Unit for three years. Subsequently, Dr. Blair moved to the Institute of Cognitive Neuroscience, University College London. There, with Uta Frith, he helped form and co-lead the Developmental Disorders group, and was ultimately appointed Senior Lecturer. Dr. Blair joined the U.S. National Institute of Mental Health (NIMH) Intramural Research Program in 2002. He joined Boys Town as Center Director in August 2016. He is currently President of the Society for the Scientific Study of Psychopathy as well as the acting vice-chair of the Board of Scientific Advisors for the National Courts and Sciences Institute, educating judges on scientific topics relevant to the courtroom.

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MICHAEL F. PIETRUSZKA served as a trial judge in Buffalo and Erie County, New York, for 30 years before retiring in 2018. Judge Pietruszka completed the Leadership Institute in Judicial Education and Advanced Institute in Judicial Education at the University of Memphis in Tennessee, the Advanced Science and Technology Adjudication Resource (ASTAR) Fellowship Program and the Digital Evidence for Judges program at the National Computer Forensics Institute in Hoover, Alabama. Since his retirement, he has co-chaired the Comparative, Molecular and Digital Forensic Science Concentration at the National Courts and Sciences Institute. Judge Pietruszka currently serves as a National Advisory Board Member for the Bryson Program for Judicial Science Education in the Department of Genetics at the University of North Carolina Chapel Hill School of Medicine. He also serves as the Vice Chair of the American Bar Association Science and Technology Law Section's Scientific Evidence Committee. Judge Pietruszka currently serves as the Case Coordinator of NCSI's "COVID" and "Data Science and Artificial Intelligence" strategic initiatives.

DANIEL T. LACKLAND is Professor of Epidemiology at the Medical University of South Carolina (MUSC). He received his doctorate degree in cardiovascular epidemiology from the University of Pittsburgh. He is a Fellow in the American College of Epidemiology, American Society of Hypertension, and American Heart Association. He directs MUSC's Division of Translational Neuroscience and Population Studies, and its Masters of Science in Clinical Research Program. He also serves as chair of the Oversight Advisory Committee for the American Heart Association Strategically Focused Research Network on Hypertension. Dr. Lackland was appointed to the Evidence Rating Committee for the 2017 Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults. Much of his research interest involves population risk assessment of cardiovascular disease, stroke and hypertension. He is the principal investigator for the NIH-funded Black Pooling Project assessing the disparities in cardiovascular diseases and hypertension, and is subcontract PI for "Impact of Nativity on Cardiometabolic Syndrome Factors" in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) study.

LAWRENCE C. MOHR is a Distinguished University Professor at the Medical University of South Carolina (MUSC). He received an A.B. degree with highest honors and an M.D. degree from the University of North Carolina Chapel Hill. His postgraduate education included a medical internship, residency training in internal medicine and fellowship training in pulmonary medicine, all at Walter Reed Army Medical Center in Washington, D.C. Dr. Mohr was presented the Erskine Award as the most outstanding

resident in his class. He subsequently served as the chief medical resident at Walter Reed. Dr. Mohr has been the principal investigator of multiple research grants and serves as an advisor to postdoctoral fellows and graduate students in the biomedical sciences. He has authored a number of scientific and medical publications and lectures both nationally and internationally. Before joining the MUSC Faculty, Dr. Mohr served as White House Physician on the staffs of President Ronald Reagan and President George H.W. Bush. His service as White House Physician is chronicled in a special exhibit at the National Museum of Health and Medicine.

NITA A. FARAHANY is a leading scholar on the ethical, legal, and social implications of emerging technologies. She is the Robinson O. Everett Distinguished Professor of Law & Philosophy at Duke Law School, the Founding Director of the Duke Science & Society, the Faculty Chair of the Duke MA in Bioethics & Science Policy, and principal investigator of SLAP Lab. She earned both her J.D. and Ph.D. in Philosophy from Duke University. Professor Farahany's current scholarship focuses on the implications of emerging neuroscience, and artificial intelligence for law and society; legal and bioethical issues arising from the COVID-19 pandemic; FDA law and policy; and the use of science and technology in criminal law. In addition to publishing in legal and scientific journals, as well as edited book volumes, Professor Farahany is the author of *The Battle for Your Brain: Defending Your Right to Think Freely in the Age of Neurotechnology* (St. Martin's Press 2023).

FRANKLIN M. ZWEIG is Vice President of the National Courts and Sciences Institute (NCSI) and project director for NCSI's Data Science and Artificial Intelligence Strategic Initiative, supported by a grant award from the State Justice Institute. He earned his Bachelor of Science (Biology & Chemistry), Master of Social Work, Doctor of Philosophy (Public Policy Research), and Juris Doctor degrees from Wayne University, Michigan State University, Brandeis University, and the State University of New York at Buffalo, respectively. He served two presidential committees and was special consultant, professional staff member and counsel to the U.S. Senate Committee on Labor and Public Welfare where he carried staff responsibility for science and education legislation. Dr. Zweig served as law clerk to the Hon. Robert Crouchley, Family Court of Rhode Island. He served in several professorial roles and was Vice President of the Einstein Institute for Science, Health and the Courts, and ASTAR, the Advanced Science and Technology Adjudication Resource, supported by the Office of Science of the U.S. Department of Energy and the U. S. Department of Justice -- both preceding formation of NCSI in 2013.