

**NATIONAL
ACADEMIES** *Sciences
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**Assessing Research Security Efforts in Higher Education
A Workshop**

National Academy of Sciences Building
Room 125
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SPEAKER BIOGRAPHIES

Alexander Angert has served as the Federal Bureau of Investigation Senior National Intelligence Officer for Counterintelligence since 2020. He has spent almost 20 years working on national security matters for the FBI, including in the Counterintelligence Division and the New York field office. In his current role, Angert collaborates extensively with the Office of the Director of National Intelligence and the rest of the U.S. intelligence community on combating intelligence threats to the United States.

Prior to joining the FBI as a Presidential Management Fellow, Angert worked in think tanks in New York and Washington, DC. He earned a B.A. in political science from Columbia University and an M.Sc. in international relations from the London School of Economics.

Tam Dao serves as the Assistant Vice President (AVP) for Research Security at Rice University, where he is responsible for formulating and executing the institution's strategy for research security. His role involves collaborating with faculty, staff, and students across the university to protect the intellectual property, knowledge, and outcomes originating from Rice University's research endeavors against both foreign and domestic threats. Additionally, he acts as the primary liaison for law enforcement and intelligence agencies seeking involvement or assistance from Rice University.

Before joining Rice University, Dao held various positions at the Federal Bureau of Investigation (FBI). In 2020, he was promoted to oversee the FBI's Counterintelligence Task Force, leading initiatives to expose, prevent, and investigate economic espionage. He has conducted over 300 classified briefings for senior White House staff, members of Congress, heads of U.S. federal funding agencies, and university administrators. His 2014 investigation into malign foreign talent programs resulted in the identification of over 400 instances of foreign influence on extramural research and the recognition of more than 200 scientists at more than 65 academic institutions with foreign influence concerns. Dao is widely acknowledged as a subject matter expert on research security, economic espionage, and foreign influence on federally-funded research. He is also a certified FBI Hostage Negotiator and regularly instructs at the FBI's Crisis Negotiation Unit and the FBI's Counterintelligence Training Center. In 2021, he was honored with the FBI's Medal of Excellence for his contributions to counterintelligence.

Prior to his tenure at the FBI, Dao held a tenure-track professorship at the University of Houston. He is the

recipient of the Walter G. Klopfer Award for distinguished contributions to the literature in personality assessment and the University of Houston Faculty Research Excellence Award for outstanding research and scholarship. Dao has received federal and state grants for his research and has authored over 50 scientific articles and book chapters on personality assessment. He holds a bachelor's degree in psychology from the University of Texas at Austin, a master's from the University of Pennsylvania, and a doctorate from Florida State University. He also completed a postdoctoral fellowship in advanced psychology and psychiatry at the Michael E. DeBakey Veterans Affairs Medical Center in Houston.

Jason Day is the Research Policy Director in the Basic Research Office within the Office of the Under Secretary of Defense for Research and Engineering of the U.S. Department of Defense (DoD). In this role, Day manages research security policy for fundamental research, policy for assistance awards, open access policy, technology transfer, scientific integrity, and other related issues. He also manages several programs for the Department including the Global Competitive Analysis Team program, and he has oversight responsibilities for the Multidisciplinary University Research Initiatives program.

Prior to his role with DoD, Day served as the Legislative Director in the Office of Congressman Daniel Lipinski where he supported the Congressman's role on the House Committee on Science, Space, and Technology. Day holds a Ph.D. in atomic, molecular, and optical physics from the University of Wisconsin-Madison

Amanda Ferguson is a Senior Director on Huron's Research Compliance team and leads its research security team. Through this work, Ferguson works with universities and academic medical centers to evaluate, establish, and strengthen research security programs. She frequently supports institutions with developing and implementing policies and procedures, delivering training, and deploying best-in-class technology solutions in order to establish holistic control environments which are responsive to both research security regulations and threat environment. Her team also frequently manages research security operations on behalf of major R1 universities, some of which are large defense contractors and operate highly specialized and sensitive facilities, such as one of two quantum computers on American university campuses.

In 2024, Ferguson supported the U.S. Department of State's Cooperative Threat Reduction office as an implementer on a project to build capacity related to research security in Sub-Saharan Africa. Huron developed and delivered a workshop on protecting sensitive and dual-use technology which was attended by academic and government leaders from Kenya and Nigeria. She has led international trainings on conflicts of interest and commitment disclosures for several global campuses and is a frequent speaker on research security topics.

Jeremy Forsberg is the Associate Vice President for Research at the University of Texas Arlington, where he oversees research administration. He has over 30 years of experience in managing sponsored projects, audits and investigations, research compliance, research integrity and conflicts of interest, and research security. He serves as the Export Control Officer and Research Integrity Officer for the University. In January of 2025, he was appointed Chair of the Council on Government Relations' (COGR) Costing & Financial Compliance Committee. He has directed multiple research projects to create efficient policy framework models for various regulatory requirements.

Rebecca Spyke Keiser is the Chief of Research Security Strategy and Policy (CRSSP) at the National Science Foundation (NSF).

Keiser is the first CRSSP, a position established in March 2020 to ensure the security of federally funded research while maintaining open international collaboration. In this role, Keiser provides the NSF director with policy advice on all aspects of research security strategy. She also leads NSF's efforts to develop and implement efforts to improve research security and the agency's coordination with other federal agencies and the White House.

Until March 2020, Keiser was the head of the Office of International Science & Engineering (OISE) at NSF. Keiser had served as head of OISE since coming to NSF in 2015.

Susan A. Martinis is Vice Chancellor for Research and Innovation at the University of Illinois at Urbana-Champaign, where she provides leadership for the campus-wide interdisciplinary research institutes, promotes new research initiatives, and oversees the administrative and business processes that ensure the safe, ethical, and productive conduct of research at Illinois.

Martinis, the Stephen G. Sligar Professor of Molecular and Cellular Biology and Professor of Biochemistry, studies the mechanisms, evolution, and biomedical applications of protein synthesis and RNA-protein interactions. She is a successful researcher, engaged in entrepreneurial activities and corporate partnerships; a committed educator; and an experienced administrator.

Theresa Mayer is the Vice President for Research at Carnegie Mellon University, supporting the research, creativity, and entrepreneurship that drives its mission and working with partners across the public and private sectors to bring the benefits of this work to all of society.

Mayer has been an active advocate for the critical role that science, technology, and innovation play in driving economic prosperity and security both nationally and globally through her testimonies before the U.S. House of Representatives Science, Space, and Technology Committee and the House Armed Services Committee, and her service on boards such as the Engineering Research Visioning Alliance, National Defense Industry Association, and others.

Mayer earned her B.S. in electrical engineering from Virginia Tech, and her M.S. and Ph.D. in electrical engineering from Purdue University.

Marie-Elisabeth Paté-Cornell is the Burt and Deedee McMurtry Professor in the School of Engineering, and a Professor and Founding Chair of the Department of Management Science and Engineering at Stanford University (2000-2011). Previously, she was the Professor and Chair of the Stanford Department of Industrial Engineering and Engineering Management and an Assistant Professor of Civil Engineering at MIT. Her specialty is engineering risk analysis with application to complex systems (seismic risk, space systems, medical procedures and devices, offshore oil platforms, cyber security, etc.). Her earlier research has focused on the optimization of warning systems and the explicit inclusion of human and organizational factors in the analysis of systems' failure risks. Her more recent work is on the use of game theory in risk analysis with applications that have included counterterrorism and cyber security.

She is a member of the National Academy of Engineering where she chairs the section of Interdisciplinary Engineering and Special Fields, of the French Académie des Technologies, and of the NASA Advisory Council. She is co-chair of the National Academies' committee on risk analysis methods for nuclear war and nuclear terrorism. She is a Fellow (and past president) of the Society for Risk Analysis and of the Institute for Operations Research and Management Science. She is the author of more than one hundred publications, with several best paper awards, and the co-editor of a book on Perspectives on Complex Global Problems (2016). She was a member of the Board of Advisors of the Naval Postgraduate School, which she chaired from 2004 to 2006, and of the Navy War College. Paté-Cornell was also a member of the President's (Foreign) Intelligence Advisory Board (2001-2008), of the board of the Aerospace Corporation (2004-2013) of Draper Laboratory (2009-2016), and of InQtel (2006-2017). She was awarded the Frank Ramsey Medal of the Decision Analysis Society, the 2021 IEEE Ramo medal in Systems Engineering and Science, and the 2022 PICMET Award for Leadership in Technology Management. She is a Fellow (and past president) of the Society for Risk Analysis and of the Institute for Management Science and Operations Research, and a Distinguished Visiting Scientist of the NASA Jet Propulsion Laboratory. She is the author of more than one hundred publications, for which she got several best paper awards, and the co-editor of a book on Perspectives on Complex Global Problems (2016). She holds a B.S. in Mathematics and Physics, Marseille (France), an Engineering degree (Applied

Math/CS) from the Institut Polytechnique de Grenoble (France), an M.S. in Operations Research and a Ph.D. in Engineering-Economic Systems, both from Stanford University.

Bhaven Sampat is a Professor in Arizona State University's (ASU's) School for the Future of Innovation in Society and School of Public Affairs, and Research Associate at the National Bureau of Economic Research (NBER). He is based at ASU's Consortium for Science, Policy and Outcomes (CSPO) in Washington DC.

An economist by training, his research focuses on the economics and political economy of innovation and innovation policy. Among other topics, he has studied U.S. and global life science patent policy, the politics and economics of publicly funded science, the roles of the government in pharmaceutical innovation, and the economic history of the U.S. biomedical research enterprise. An overarching theme in his research is how science and technology policies can best be designed to contribute improvements in health and other socio-economic outcomes.

Sampat received his B.A., M.A., M.Phil., and Ph.D. (all in Economics) from Columbia, and did a post-doctoral fellowship through the Robert Wood Johnson Foundation's Scholars in Health Policy Research program at the University of Michigan. Before joining ASU in 2023, he was Assistant, Associate, and Full Professor at the Department of Health Policy and Management at Columbia University's Mailman School of Public Health. He has held visiting positions at NYU Law School and NYU's Wagner School of Public Service, among other institutions.

He is a founding member of NBER's Innovation Information Initiative (I3), a data collaborative for open innovation data and related analytics, tools, and metrics, a member of the editorial advisory board of the *Milbank Quarterly*, a leading health policy journal, and an affiliated professor in the Abdul Latif Jameel Poverty Action Lab (J-PAL) Science for Progress Initiative.

Naomi Schrag is the Vice President for Research Compliance, Training, and Policy in the Office of the Executive Vice President for Research at Columbia University. She is also the university's Research Integrity Officer (RIO). She oversees work on issues such as research security, data management, export controls, research misconduct, and conflict of interest and commitment, and collaborates closely with offices across the University to develop integrated approaches to compliance and training.

Before joining Columbia in January 2006, Schrag practiced law for nine years, focusing on regulatory compliance and litigation involving biomedical research, with clients including pharmaceutical companies and not-for-profit organizations. Schrag also clerked in the Court of Appeals for the Second Circuit. She graduated from New York University School of Law in 1995. Before entering law school, she worked on an oral history of the Holocaust for the Museum of Jewish Heritage.

Lori Ann Schultz is the Assistant Vice President for Research Administration at Colorado State University and Co-Director of the NSF SECURE Center Southwest Region. She has worked in research administration for over 30 years, and supports faculty researchers through policy, process, research security, and a host of topics related to external funding. She works on evidence-based policies, marshaling research data in the service of the institution and the faculty who do research, and using data to forecast and plan strategies for a resilient future for research. Schultz has conducted presentations and training on research, data, and technology topics at the Association of American Universities, Association of Public and Land-grant Universities, National Council of University Research Administrators (NCURA), Society of Research Administrators International, the Federal Demonstration Partnership, the Council on Governmental Relations (COGR), and Educause. She is on the Board of Directors of ORCID, COGR, and NCURA. Lori has many years of experience in research, software development, non-profit board leadership, and data management and analysis. She has a particular passion for using data to improve the working lives of the researchers who help us understand the world.

Jonathan Snowden is the Facility Security Officer (FSO), Office of Research Security, at the University of Missouri, Kansas City (UMKC). He is responsible for ensuring UMKC's most sensitive research is properly protected from theft and malign exploitation as defined by federal regulations and research security guidelines. He also works closely with the UMKC and University of Missouri System's Research Security Officers (RSO) in the development, analysis, and implementation of policies and enforcement of the full range of federal and state guidelines.

Snowden has been engaged in research security for eight years. He was previously the FSO and initial RSO for Kansas State University, where, as the Chair of the university's Research Security and Integrity Working Group, he guided a cross-functional team in the prioritization, identification, implementation, and education of policies and procedures across the university for the faculty and staff to protect their and K-State's research and reputation. Jonathan is also a veteran of a twenty-four year career in the United States Air Force.

Jason Owen Smith is co-founder and Executive Director of the Institute for Research on Innovation and Science (IRIS). He is also Professor of Sociology and Research Professor in the Institute for Social Research (ISR), and Associate Vice President for Research - Institutional Capabilities & Research Intelligence (RADIO) at the University of Michigan. His research examines how complex networks among people and organizations shape knowledge-work and innovation. He is particularly interested in the workings, social and economic impact of research universities and in the dynamics of scientific collaboration networks.

Findings from this research have been published in outlets including *Administrative Science Quarterly*, the *American Journal of Sociology*, the *American Sociological Review*, *Cell*, *Cell Stem Cell*, *Higher Education*, *JAMA Surgery*, *Management Science*, *Medical Care*, *Nature Biotechnology*, *Nature Methods*, *Organization Science*, *Research Policy*, *Science*, and *Social Studies of Science*. He is the author of the 2018 book *Research Universities and the Public Good: Discovery for an Uncertain Future*. He received his M.A. and Ph.D. degrees in Sociology at the University of Arizona and a B.A. in Sociology and Philosophy from the New College of Florida.

Sarah Stalker-Lehoux is Deputy Chief of Research Security Strategy and Policy at the National Science Foundation. Stalker-Lehoux came to NSF with a wealth of experience focused on protecting U.S. technology. She was most recently a Senior Compliance Specialist in the Directorate of Defense Trade Controls at the U.S. Department of State. While at the State Department, Stalker-Lehoux spent a one-year detail from February 2021 through March 2022 at the National Security Council (NSC) as a Director for Technology and National Security. While at the NSC, Stalker-Lehoux worked on multiple interagency policy committee (IPC) processes related to research security, countering foreign malign influence, the Committee for Foreign Investments in the United States, data security, and critical and emerging technology and export controls. The IPC processes included those related to National Security Presidential Memorandum 33 on protecting U.S. Government-supported Research and Development against foreign government interference and exploitation. Prior to her term at the State Department, Stalker-Lehoux spent nine years at the Department of Commerce's Bureau of Industry and Security where she held various roles, ranging from Intelligence Analyst, Senior Export Compliance Specialist, as well as serving for two years as the Special Assistant to the Under Secretary for Industry and Security. She has a B.A. degree in Psychology and Political Science from the State University of New York at Albany and an M.P.A. degree with a concentration in International Business Management from American University.

Gregory F. Strouse is the Research Security Director and the Senior Advisor to the Associate Director for Laboratory Programs at the National Institute of Standards and Technology (NIST). At NIST since 1988, Strouse is a research physicist and a Fellow of the Washington Academy of Science. His past research of expertise includes the thermodynamic areas of temperature, humidity, pressure, and vacuum with a focus on chip-scale quantum sensors, cold-chain management for vaccines, and the Boltzmann constant determination. He is recognized as a world-leading expert in temperature measurement and the realization and dissemination of the International Temperature Scale of 1990 (ITS-90).

As the Director of NIST Research Security, he is responsible for research security reviews at NIST and CHIPS Research and Development programs. He led the development of the NIST Safeguarding Science Research Security Framework (NIST IR 8484), a risk-based balanced review approach that enables a transparent process that promotes international research science while recognizing the importance of research security. Additionally, he is a founding member of the Office of the Director of National Intelligence Safeguarding Science Roundtable and co-developer of the Safeguarding Science Toolkit.

Geeta Krishna Swamy, M.D., is Haywood Brown, MD Distinguished Professor of Women's Health and Professor of Obstetrics and Gynecology, Duke University, having served as director of the Duke Perinatal Research Center and Vice Chair for Research and Faculty Development in the Department of ObGyn. She has achieved international acclaim as a clinician researcher and expert in the field of maternal immunization and perinatal infection. As a consultant to the World Health Organization, Swamy contributes her knowledge to advance international work to evaluate the immunogenicity, safety, and efficacy of vaccines in pregnant women. The American College of ObGyn has grown to be the “collective voice” for women’s health, and Swamy has been a leader within that organization for the last two decades. She currently serves as the Co-Principal Investigator for the NIH-NIAID Vaccine Treatment and Evaluation (VTEU) and CDC Clinical Immunization Safety Assessment. In addition, she has been a leader at Duke and nationally in promoting a culture of scientific integrity and transparency in research. She has been instrumental in developing and leading the School of Medicine’s research initiatives in administration, regulatory oversight, and compliance. In 2018, she became Vice Dean for Scientific Integrity in the School of Medicine and Associate Vice President for Research for Duke University. In these roles she oversees the Duke Office of Scientific Integrity (DOSI) which houses the Advancing Scientific Integrity, Services, & Training (ASIST) initiative, conflict of interest, clinical quality management, incident response in research, and research misconduct. She also oversees the Duke Office of Research Initiatives, the Duke Health IRB, Office of Research Administration (ORA), and Office of Research Contracts (ORC).

Steven H. Walker is an independent consultant providing expertise to industry, academia and government on defense technology development and strategic innovation. Walker recently retired from his position as Vice President and CTO of Lockheed Martin where he was responsible for the company’s technology strategy, internal R&D investments, strategic partnerships and laboratories. Previously, Walker held the positions of Director, Defense Advanced Research Projects Agency (DARPA) from 2017-2020 and Deputy Assistant Secretary of the Air Force for Science, Technology and Engineering from 2010-2012. Walker was awarded Fellow of the American Institute of Aeronautics and Astronautics (AIAA) and member of the National Academy of Engineering for his nationally recognized work in hypersonic systems. He is a Board Director for SRI International and is a parent member of the Defense Science Board (DSB). He holds a Ph.D. and B.S. in Aerospace Engineering from the University of Notre Dame.

Stephen Welby is Deputy Director of Research for the Sensors and Intelligent Systems Directorate at the Georgia Tech Research Institute. Formerly, Welby was Assistant to the President for Science and Technology Policy and former Deputy Director, National Security, White House Office of Science and Technology Policy.

Welby previously served as Assistant Secretary of Defense for Research and Engineering and Chief Technology Officer for the U.S. Department of Defense (DoD) and the principal advisor to the Secretary on all matters relating to science, technology, research and engineering. He also served as Deputy Assistant Secretary of Defense for Systems Engineering where he was responsible for establishing and executing engineering policy and oversight across the Department. His responsibilities included engineering design, development and manufacturing of complex military systems, and the engineering review, analysis and technical risk assessment of the Department’s portfolio of major acquisition programs. He provided functional leadership to more than 40,000 technical professionals in the DoD Engineering and Production, and Quality and Manufacturing workforce. Welby also served as the Defense Standardization Executive, directing the DoD program to develop and maintain defense-critical government and commercial technical standards.

Welby has more than 28 years of government and industrial experience in technology and product development, including senior leadership positions at the Defense Advanced Research Projects Agency (DARPA). His experience includes development of leading-edge aeronautical and space systems, robotics, advanced weapons, high-performance software, and military sensor systems.

Welby holds a Bachelor of Science degree in chemical engineering from The Cooper Union for the Advancement of Science and Art, a master's degree in business administration from the Texas A&M University, and master's degrees in computer science and applied mathematics from The Johns Hopkins University.

Kristin (Kris) West is the Director for Research Compliance and Ethics at COGR, an association of research-intensive universities, colleges, independent research institutions, and health care institutions that supports its members in the areas of research compliance, administration, financial oversight, and intellectual property. She provides information, regulatory analysis, policy perspective and advice to COGR's members concerning research compliance in the areas of human and animal subjects research, conflicts of interest and commitment, research security, research integrity, and biosafety/biosecurity. West helps lead COGR's efforts to understand and quantify the impact of research security regulations on the academic research enterprise.

West is an attorney, and she also holds a M.S. degree in drug regulatory affairs. Prior to joining COGR, she worked at Emory University for over 30 years, first as an attorney in the Office of the General Counsel and later as Emory's Chief Compliance Officer. West is member of the State Bar of Georgia and serves as an adjunct professor at Loyola University Chicago's School of Law. She holds degrees from the University of Maryland, Mercer University School of Law, and University of Florida College of Pharmacy.

Michael Witherell is an American particle physicist and laboratory director. He has been the director of the Lawrence Berkeley National Laboratory since 2016. Witherell served as Director of Fermi National Accelerator Laboratory from 1999 to 2005. He also served as vice chancellor for research at the University of California, Santa Barbara from 2005 to 2016.

Witherell received the 1990 Panofsky Prize from the American Physical Society for his research in experimental particle physics. He is a member of the National Academy of Sciences (NAS) and the American Academy of Arts & Sciences. Since 2023 he has served on the NAS Council and on the governing board of the National Research Council.

Witherell received his B.S. from the University of Michigan and his Ph.D. in experimental particle physics from the University of Wisconsin.