University of Maryland
ADVANCE Professors
2020-2021

Pamela Abshire – Professor, Electrical and Computer Engineering
ADVANCE Professor for the A. James Clark School of Engineering

Pamela Abshire received her B.S. degree in Physics with Honor in 1992 from the California Institute of Technology in Pasadena, CA. Between 1992 and 1995 she worked as a Research Engineer in the Bradycardia Research Department of Medtronic, Inc. in Minneapolis, MN. In 1995 she began her graduate education in the Department of Electrical and Computer Engineering at The Johns Hopkins University. She received her M.S. degree in Electrical and Computer Engineering in 1997 and completed her Ph.D. degree in Electrical and Computer Engineering in October 2001. Her areas of specialty are in the fields of VLSI circuit design and bioengineering. Dr. Abshire’s research focuses on better understanding the tradeoffs between performance and resources in natural and engineered systems. Her research interests include information theory for physical systems, noise theory for electronic, photonic, and biological systems, analysis and design of sensory information processing systems, and algorithm, VLSI circuit, and microsystem design, especially for low power applications.

https://isr.umd.edu/clark/faculty/347/Pamela-Abshire

Linda Aldoory – Professor, Communication; Associate Dean for Research and Programming
ADVANCE Professor for the College of Arts and Humanities

Dr. Linda Aldoory has been at the University of Maryland for over 20 years, and she studies public relations, gender and health, with much of her work focusing on the effects of media messages and public information campaigns on underserved health populations. Her most recent grant is a partnership with the Prince George’s County Health Department to design health messages addressing pre-diabetes in Southern Maryland, from the U.S. Centers for Disease Control and Prevention for $12 million over five years. She is former Endowed Director of the UMD Herschel S. Horowitz Center for Health Literacy, and founder and former Director of the UMD Center for Health and Risk Communication. She has published an edited book, The Gender Challenge to Media, and is co-authoring a book with Elizabeth L. Toth, now under contract, exploring the history and current perspectives of feminism in public relations.

https://www.comm.umd.edu/people/faculty/aldoory
Dr. Patricia Alexander is the Jean Mullan Professor of Literacy and Distinguished Scholar-Teacher in the Department of Human Development and Quantitative Methodology. A former middle-school teacher, Dr. Alexander received her reading specialist degree from James Madison University (1979) and her Ph.D. in reading from the University of Maryland (1981). Since receiving her Ph.D., Dr. Alexander has published over 300 articles, books, chapters, and monographs in the area of learning and instruction. She has also presented over 400 papers or invited addresses at national and international conferences. She currently serves as the senior editor of *Contemporary Educational Psychology* and presently serves on 14 editorial boards. Dr. Alexander is a Fellow of the American Psychological Association, the American Educational Research Association, and the Society for Text and Discourse, and she was a Spencer Fellow of the National Academy of Education. Named one of the five most influential educational psychologists over the past decade, her honors include the Oscar S. Causey Award (2001), the E. L. Thorndike Award for Career Achievement in Educational Psychology from APA Division 15 (2006), and the Sylvia Scribner Career Award from AERA Division C (2007).

https://education.umd.edu/directory/patricia-alexander

Amelia Arria is a Professor and the Director of the Center on Young Adult Health and Development in the Department of Behavioral and Community Health at the University of Maryland School of Public Health. Her research has focused on the risk and resiliency factors associated with mental health and substance use problems among adolescents and young adults. She is the Principal Investigator of the NIDA-funded prospective College Life Study, which annually assessed the behavioral health of 1253 college students through their young adult years. Her most recent publications have clarified the impact of substance use, particularly excessive drinking and marijuana use, on academic achievement. She is the co-leader of the Maryland Collaborative, which provides training and technical assistance to a network of 17 colleges across the state that are committed to aligning their substance use prevention and intervention strategies with scientific evidence. Currently she is exploring community resilience and its impact on the behavioral health of populations. She has authored more than 170 scientific peer-reviewed publications, numerous white papers and book chapters, and is the recipient of several major grant awards from foundations, and state and federal agencies. Much of her work has direct relevance to parents, communities, educational professionals and policy makers. She is a first-generation college student and completed her undergraduate degree at Cornell University, a PhD in Epidemiology at the University of Pittsburgh and postdoctoral training in Psychiatric Epidemiology at the Johns Hopkins University.

https://sph.umd.edu/people/amelia-arria
Shannon Dill – Principal Agent, Agriculture
ADVANCE Professor for University of Maryland Extension

Shannon Dill is the Agriculture Extension Educator for University of Maryland Extension in Talbot County. She has been a faculty member of the University of Maryland, College of Agriculture and Natural Resources since 2001. She graduated from the University of Wyoming receiving a Bachelor of Science in Agriculture Business and a Master of Science in Agricultural Economics. Shannon provides outreach and education to agriculture producers of Talbot and neighboring counties in farm business planning, sustainable small farm enterprises, marketing and livestock management. Educational programs have included QuickBooks for Farm Business Planning, Ag Tourism, Equine, Pasture Management and Grain Marketing.

https://agnr.umd.edu/about/directory/shannon-p-dill

Wedad Elmaghraby – Professor, Management Science and Operations Management
ADVANCE Professor for Robert H. Smith School of Business

Dr. Wedad J. Elmaghraby is a Professor of Management Science at the Robert H. Smith School of Business, University of Maryland, College Park. Prior to joining the Smith School, she was on the faculty of the School of Industrial and Systems Engineering at Georgia Institute of Technology and NYU Stern School of Business in the Operations Management group. Her current research interests are (1) the design of competitive procurement auctions in business-to-business markets and (2) pricing in markets where buyers behave strategically. Her current areas of application are e-commerce, logistics, supply chain management in the electronics industry and energy markets.

https://www.rhsmith.umd.edu/directory/wedad-j-elmaghraby
Susan Moeller – Professor, Media and International Affairs; Director, International Center for Media and the Public Agenda
ADVANCE Professor for the Philip Merrill College of Journalism

Dr. Susan Moeller is the director of the International Center for Media and the Public Agenda (ICMPA), an academic center that forms a bridge between the College of Journalism and the School of Public Policy. Besides her appointment with the Philip Merrill College of Journalism, Dr. Moeller serves as an affiliated faculty member at the School of Public Policy. She is also the co-director and lead faculty member for the global education program Salzburg Academy on Media and Global Change. Dr. Moeller’s expertise are in U.S. and global media and public policy, especially in regards to violence, conflict, war, and disasters; terrorism and weapons of mass destruction; human rights; photojournalism; trauma; and ethics. Further she has authored several books: *Packaging Terrorism: Co-opting the News for Politics and Profit*, *Compassion Fatigue: How the Media Sell Disease, Famine, War and Death*, and *Shooting War: Photography and the American Experience of Combat.*

https://merrill.umd.edu/about-merrill/staff-faculty/susan-moeller/

Brooke Fisher Liu – Professor, Communication; Associate Dean for Academic Standards and Policies, UMD Graduate School
ADVANCE Professor for the College of Information Studies

Dr. Brooke Liu's research investigates how government messages, media, and interpersonal communication can motivate people to successfully respond to and recover from hazards. Much of her recent research focuses on tornado risk communication as well as crisis narratives and other message strategies. Dr. Liu’s research has been funded by government agencies such as the Defense Advanced Research Projects Agency (DARPA), the Department of Homeland Security (DHS), the National Science Foundation (NSF), and the National Oceanic and Atmospheric Administration (NOAA). Additionally, Liu is the co-founder and editor of the first journal dedicated to crisis and risk communication research: the *Journal of International Crisis and Risk Communication Research*. Previously, Liu served as a member of the Food and Drug Administration’s (FDA) Risk Communication Advisory Committee and the National Academy of Sciences Committee studying the future of emergency alert and warning systems. She also has developed and delivered risk communication training for a variety of government stakeholders including the Department of Homeland Security, the National Weather Service, and for the Australian Institute for Disaster Resilience. Currently, Liu is the Associate Dean for Academic Standards and Policies in the University of Maryland Graduate School. Outside of work, she enjoys traveling with her twin daughters and husband and reading novels.

https://www.comm.umd.edu/people/faculty/bfliu
Susan Wendy Parker – Professor, Public Policy
ADVANCE Professor for the School of Public Policy

Dr. Susan W. Parker is Professor in the School of Public Policy. Her research studies health and education in developing countries and in particular the evaluation of programs and public policies in Latin America. She has particular expertise on conditional cash transfer programs, an antipoverty program which has spread around the world in the past 20 years and her recent work as appeared in the journal of Political Economy, the Journal of Economic Literature, Demography and American Economic Journal: Economic Policy, among others. Her current projects include studying the causes and consequences of the rise in obesity in Mexico, the health impacts of public health insurance, and mobile banking in poor populations. She holds a Ph.D. from Yale University and a B.A. in economics and mathematics from Franklin and Marshall College.

https://www.publicpolicy.umd.edu/faculty/susan-parker

Nadine Sahyoun – Professor, Nutrition and Food Science
ADVANCE Professor for the College of Agriculture and Natural Resources

Nadine Sahyoun is Professor of Nutritional Epidemiology at the Department of Nutrition and Food Science, University of Maryland, College Park. Her area of work focuses on the relationship between diet, lifestyle factors, nutritional status and health outcomes, especially in older adults. Her work includes the study of determinants and impact of household food and nutrition security on populations in the US, Middle East and Sub-Saharan Africa. Dr. Sahyoun received her Ph.D. in Nutrition from the Friedman School of Nutrition Science and Policy, at Tufts University and was a postdoctoral research fellow with the Association for Teachers in Preventive Medicine (ATPM) Office of Analysis, Epidemiology and Health Promotion at the National Center for Health Statistics in Hyattsville, Maryland.

https://nfsc.umd.edu/people/faculty/nadine-sahyoun-phd-rd

Jean McGloin – Professor, Criminology and Criminal Justice; Associate Dean for Research and Graduate Studies
ADVANCE Professor for the College of Behavioral and Social Sciences

Dr. McGloin’s primary research focus is on groups and crime, which is reflected in two main research programs. First, she has an ongoing research program focused on peer influence processes. This program has focused on developing new theoretical explanations of peer influence, the role of peer network structure in shaping delinquency, and the extent to which individual characteristics (e.g., immigrant status, gender) condition peer influence. Second, she conducts research on co-offending, including why offenders decide to commit crime with accomplices, under what conditions they will instigate group crime rather than follow others, and how co-offending networks can shape and influence the criminal career. As part of this stream of research, she is interested in how the group can condition decisions about offending.

https://ccjs.umd.edu/facultyprofile/mcgloin/jean
Dr. Arpita Upadhyaya received her Ph.D. from the University of Notre Dame, and then worked at the Department of Mechanical Engineering at MIT before being awarded an MIT Pappalardo Fellowship in the Department of Physics. She spent a year in the Department of Cell and Developmental Biology at the University of North Carolina at Chapel Hill before joining the University of Maryland faculty in 2006. She received a Sloan Research Fellowship in 2008 and was promoted to associate professor in 2014. Her research uses quantitative imaging, biophysical measurements and computational analysis to study cellular mechanics and the physical forces that enable a cell to sense and respond to its physical environment, in particular cells of the immune system and cancer cells.

https://www.umdphysics.umd.edu/people/faculty/current/item/544-arpitau.html#biography

Jana VanderGoot is interested in the intersection of architecture and landscape. Her work and research focus on the ways in which buildings act as extensions of urban ecological networks, and specifically where this applies to vegetated landscapes. She holds a Master of Landscape Architecture degree from Harvard University Graduate School of Design, a Master of Architecture from University of Virginia, and a Bachelor of Architecture from University of Notre Dame. She is also a registered architect and founding partner at VanderGoot Ezban Studio. VanderGoot's joint project with Dr. Kelly Cook in Landscape Architecture called "Paper Streets—Takoma Park, Maryland" received funding in 2014 from the National Science Foundation and the University of Maryland ADVANCE Program for Inclusive Excellence. In 2011 VanderGoot was the recipient of the Rieger Graham Prize, ICAA affiliated fellowship at the American Academy in Rome, where she conducted research on ancient and modern food systems and their role in the formation of public space, culture, and architecture in the urban context of Rome.

https://www.arch.umd.edu/arch/faculty/jana-vandergoot