



2023

GRO Academy

**Building the skills and confidence
to lead interdisciplinary teams**



THE OHIO STATE UNIVERSITY

OFFICE OF KNOWLEDGE ENTERPRISE

Welcome to the 2023 GRO Academy!

GRO Academy is brought to you by the Office of Knowledge Enterprise, Talent and Team Development. Informed by evidence-based models of training and bringing together a range of team science and leadership experts, we hope that this program will provide you with practical skills and a strong vision for your continued growth as an OSU interdisciplinary research leader.



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Friday, March 3rd, 2023

Creating an Inspiring Future for You & Others

Susan Alexander, Rosebud Coaching and Consulting

The STEAM Factory, 3 – 5:00 pm

Focusing on your values and passion, this workshop will empower you to make more collaborative, creative, and focused choices. You will explore what inspires you about your work, learn the practice of pausing, and build awareness of how to use your values to guide actions and behaviors.

About the speaker:

Susan Alexander, PCC, is an executive and life coach with an extensive business background. Grounded in the principles of transformational leadership and financial management, Susan specializes in helping individuals to create new possibilities for their personal and professional life to fulfill on their most important goals and aspirations. Susan created Rosebud Coaching & Consulting, LLC out of her commitment to help individuals be leaders in their organizations who make a difference. She coaches executives, managers and individuals with a special emphasis on discovering and being clear about one's purpose; as well as the power of self-perception and communications on the quality of relationships and performance.

Prior to her coaching practice, Susan was a commercial lender, community development officer and investment product manager for a prominent financial service provider. This extensive business background combined with her exposure and proficiency in transformational learning creates a unique understanding and sensitivity to the issues and concerns of managers and leaders. Susan is also an Adjunct Faculty Member of Otterbein University. She teaches leadership classes to both traditional and adult students.

Susan is known for her creative and “out-of-the-box” thinking, positive and enthusiastic outlook, and inherent ability to effectively work with all levels of managers. Focusing on expanding one's self-awareness and the power of intentionally choosing, she helps clients to achieve results that are more impactful, meaningful and deeply satisfying.

Follow-up Discussion:

- Tuesday, March 7th, 10 – 11:00am
- Wednesday, March 8th, 11 – 12:00pm

Facilitated by 2021 GRO Alum Mark Moritz, Professor of Anthropology

Friday, March 10th, 2023

Personal & Team Leadership

Greg Davis, Assistant Dean and Associate Chair, OSU Extension

Research Commons, 2 – 4:00 pm

By completing an established leadership self-assessment, you will build self-awareness and understanding of your personal leadership style and strengths. Learn key skills for team leadership and how to be a flexible leader, modifying your approach to the needs of a team member or project.

About the speaker:

Greg Davis, PhD, is the Associate Chair of the Department of Extension and the Assistant Dean of OSU Extension. He gives leadership to program development, teaching evaluation and improvement, impact documentation and applied scholarship for OSU Extension personnel across OSU and supports professional advancement of roughly 250 educators and specialists within the Department of Extension. His workshop is given in conjunction with the OSU Leadership Center.

About the OSU Leadership Center:

The OSU Leadership Center is led by a group of professionals dedicated to providing leadership-centered education and research to individuals, families, organizations, and communities. We provide high-quality practical programs to build and strengthen leadership capacities.

Created in 1990, the center is located on the Columbus campus of The Ohio State University and is a part of the Departments of Agricultural Communication, Education and Leadership and OSU Extension. Our mission is to provide “research-based resources and high-quality practical programs to build and strengthen leadership capacities that make a positive difference in the lives of Ohio’s citizens.”

Follow-up Discussion:

- Tuesday, March 21st, 12 – 1:00pm
- Wednesday, March 22nd, 9 – 10:00am

Facilitated by Julie P. Martin, Assistant Vice President for Talent and Team Development

Friday, March 24th, 2023

Communication, Accountability, and Collaboration Planning

Edgar Cardenas, Toolbox Dialogue Initiative
Research Commons, 2 – 4:00 pm

Using methods established by the Toolbox Dialogue Initiative, you will learn how to communicate with collaborators to find shared understanding and how to develop a collaboration planning agreement that sets your team up for success.

About the speaker:

Dr. Edgar Cardenas is a co-founder and an associate director for the ToolBox Dialogue Initiative Center (TDIC) at Michigan State University. His work focuses on structured dialogue, social creativity, and small group dynamics, exploring which processes and mechanisms support convergent collaborations. Edgar has worked with multiple universities and federal organizations like the NSF, NASA, NOAA, DOE, and DOD. He is currently a team science curriculum lead for the Convergence Accelerator program at NSF and has been working with the program since its inception in 2019. Under the Convergence Accelerator program he has worked with more than 100 teams composed of scientists, humanists, and private industry partners, focused on scaling solutions for complex societal problems. In addition to his work at TDIC, he is an executive producer for the podcast, Living Dialogs, which focuses on open-ended conversations about living architecture with practitioners, scholars, and researchers in the field. Edgar holds a Ph.D. in Sustainability and a M.A. in Industrial/Organizational Psychology.

About the Toolbox Dialogue Initiative:

The Toolbox Dialogue Initiative is a consulting and research community based at Michigan State University that includes members from ten US universities. We facilitate collaborative capacity building with partners around the world, and we investigate the practice of collaborative research, including team science, with an emphasis on understanding cross-disciplinarity and knowledge production.

Learn more at tdi.msu.edu

Follow-up Discussion:

- Tuesday, March 28th, 9 – 10:00am
- Wednesday, March 29th, 3 – 4:00pm

Facilitated by 2021 GRO Alum Christa Teston, Associate Professor of English

Friday, March 31st, 2023

Generating Understanding Across Disciplines

Global Arts + Humanities collabORATE

Research Commons, 2 – 4:00 pm

Led by facilitators from the Global Arts + Humanities, you will participate in collabORATE, an interactive exercise that will help you build skills in meaningfully communicating your work to those outside your discipline and finding understanding when others do the same.

About collabORATE:

collabORATE is a tool developed by the Global Arts + Humanities Discovery Theme to help cross-disciplinary practitioners translate disciplinary language and methods and practices. Whereas traditional disciplinary structures do not easily facilitate cross-disciplinary inquiry and creation; collabORATE aims to cut across these barriers and disciplinary domains by:

- **Translating** disciplinary methods and practices for use in new contexts or applications,
- **Uncovering** disciplinary assumptions and promoting disciplinary self-awareness about methods and creative practices,
- **Creating** new conceptual, theoretical and methodological innovations to transform discipline-specific approaches to address a common problem or issue,
- **Amplifying** the ability of researchers to reach a wider audience and communicate diverse viewpoints.

The Global Arts + Humanities is the gateway to the integrated arts and humanities at Ohio State. The mission of the Global Arts + Humanities is to invest in cross-disciplinary collaborations that amplify the transformative power of the arts and humanities to respond to critical societal challenges to drive social change. Global Arts + Humanities is part of the Discovery Themes, a university-wide initiative created with the goal of connecting experts and facilitating cross-disciplinary research to accelerate new discoveries and translate knowledge into practical solutions for meaningful impact.

Follow-up Discussion:

- Tuesday, April 4th, 12 – 1:00pm
- Wednesday, April 5th, 11 – 12:00pm

Facilitated by 2021 GRO Alum Jodi Ford, Professor of Nursing

Friday, April 7th, 2023

Building Diverse and Inclusive Teams

Jeni Cross, Institute for Research in the Social Sciences

Research Commons, 2 – 4:00 pm

This workshop, developed by Jeni Cross and OSU Associate Professor of Sociology Jacquelyn Meshelemiah, focuses on JEDI (Justice, Equity, Diversity, and Inclusion) principles. You will explore the value of diversity in teams and learn actionable steps to create inclusion and belonging.

About the speaker:

Dr. Cross is founding Director of the Institute for Research in the Social Sciences (IRISS) and Director of the Team Science Core for the Colorado Clinical and Translational Sciences Institute. She has been on the forefront of creating training, interventions, and assessments for transdisciplinary science teams since 2015. Dr. Cross and her team have developed team science curriculum for early career scientists, team leaders, and community partners. IRISS is working with dozens of emerging and established teams to accelerate team integration and development of team science competencies.

Dr. Cross uses social network analysis to examine how teams emerge and change over time. She has used these methods to study public health coalitions, green building design teams, and large scientific teams. Additionally, she studies the processes of social change with a special focus on community-led initiatives. Her research is published in over a dozen fields of science and her TED talk on Behavior Change has been viewed over a million times and adopted by dozens of courses across the globe.

The Institute for Research in the Social Sciences (IRISS):

The Institute for Research in the Social Sciences at Colorado State University is an international leader in providing team science training, facilitation, and evaluation using interviews, surveys, and social network analyses of scientific teams. IRISS also coaches a variety of scientific leaders and offers interventions to promote team integration and maturation.

Follow-up Discussion:

- Tuesday, April 11th, 12 – 1:00pm
- Wednesday, April 12th, 9 – 10:00am

Facilitated by 2021 GRO Alum Nick Brunelli, Professor of Chemical and Biomolecular Engineering

Friday, April 14th, 2023

Project and Data Management

TJ Ronningen, Research Scientist

Kelsey Badger, Data Management Librarian

Research Commons, 2 – 4:00 pm

Our first hour will help you build skills in the initiation, planning, and execution of complex team research projects. Our second hour will focus on best practices for data management, from knowing what you have to data sharing and preservation.

About the speakers:

Dr. TJ Ronningen is a Research Scientist in the Electrical and Computer Engineering department. TJ works on applied spectroscopy and sensor development. He develops techniques, hardware systems, hardware components, and software to explore and exploit light-matter interactions. TJ's work and collaborations span disciplines of biology, medicine, applied mathematics, aerosol science, chemistry, physics, and engineering. Prior to joining Ohio State, TJ worked as a Senior Research Scientist at Battelle. While there, he gained expertise in systems engineering and project management that he continues to apply and grow at Ohio State. TJ supports large, multi-institution projects as a project manager or systems engineer. He is currently supporting the IIT Bombay-Ohio State Frontier Center, the NSF NeXUS Facility, the NSF X-lites network, and the Ohio Federal Research Network ALTITUDE team. TJ is honored to currently be the chair of Out To Innovate, a professional society to support and advocate for lesbian, gay, bisexual, transgender, and queer (LGBTQ+) people in STEM.

Kelsey Badger is the Research Data Librarian and an assistant professor at The Ohio State University Libraries. In this role, she leads the Libraries' initiatives for access, management, and stewardship of research data, whether it is produced by campus researchers, licensed or acquired by the Libraries, or openly available online. She specializes in practices that support scientific reproducibility and transparency, including federal funder requirements for data management and sharing. Previously, Badger has supported data management through positions in academia as well as state and federal government, including the Illinois Department of Children and Family Services and the U.S. Geological Survey.

Follow-up Discussion:

- Tuesday, April 18th, 10 – 11:00am
- Wednesday, April 19th, 11 – 12:00pm

Facilitated by the Office of Knowledge Enterprise

Friday, April 21st, 2023

Handling Conflict

Jeff King, OSU Leadership Center
Research Commons, 2 – 4:00 pm

This workshop will provide a greater understanding of how conflict affects your work and strategies to develop your conflict management skills. Using the Thomas-Kilmann Conflict Mode Instrument (TKI) you will identify your preferred mode of conflict management and understand individual & team implications to your style.

About the speaker:

Dr. Jeff King is the Co-Director of the OSU Leadership Center and holds the rank of Associate Professor with Ohio State University Extension and the Departments of Agricultural Communication, Education, and Leadership & OSU Extension. He received his Ph.D. in Extension Education from The Ohio State University.

Jeff teaches undergraduate and graduate leadership and administration related courses within the Department of Agricultural Communication, Education and Leadership and conducts leadership workshops at the state and national levels. Prior to his role with the OSU Leadership Center, he worked for over 20 years in Ohio 4-H Youth Development as a County 4-H Educator, Associate State 4-H Leader, and the State 4-H Director.

Jeff lives in Columbus with his wife Jill, and they have two daughters Ashley and Megan. Daughter Ashley and husband Joe have a son...Jeff and Jill's first grandchild!

Contact Jeff: king.20@osu.edu

Learn more about the OSU Leadership Center: leadershipcenter.osu.edu

Follow-up Discussion:

- Tuesday, April 25th, 9 – 10:00am
- Wednesday, April 26th, 3 – 4:00pm

Facilitated by 2021 GRO Alum Karen Rose, Professor of Nursing

Friday, April 28th, 2023

Team Formation: Creating Shared Vision and Role Clarity

Jeni Cross, Institute for Research in the Social Sciences

Research Commons, 2 – 4:00 pm

Scientific teams are often long-term endeavors. This session will investigate key management tactics that set your team up for long-term success including cultivating a shared vision and clearly defining roles and responsibilities.

About the speaker:

Dr. Cross is founding Director of the Institute for Research in the Social Sciences (IRISS) and Director of the Team Science Core for the Colorado Clinical and Translational Sciences Institute. She has been on the forefront of creating training, interventions, and assessments for transdisciplinary science teams since 2015. Dr. Cross and her team have developed team science curriculum for early career scientists, team leaders, and community partners. IRISS is working with dozens of emerging and established teams to accelerate team integration and development of team science competencies.

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The Institute for Research in the Social Sciences (IRISS):

The Institute for Research in the Social Sciences at Colorado State University is an international leader in providing team science training, facilitation, and evaluation using interviews, surveys, and social network analyses of scientific teams. IRISS also coaches a variety of scientific leaders and offers interventions to promote team integration and maturation.

Follow-up:

Please complete our program evaluation and stay tuned for future opportunities for GRO alums!



Candice Askwith, PhD

Associate Professor
Vice Chair of Research
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Candice Askwith, PhD is an Associate Professor and Vice Chair of Research in the Department of Neuroscience at The Ohio State University. The Askwith lab is focused on understanding how factors in the extracellular environment work through ion channels and G-protein coupled receptors to control neuronal signaling and cell death. Changes in the interstitial environment of the brain control behavior and neurological injury. Understanding how neurons sense and respond to signals within this extracellular space is critical for developing novel therapeutic strategies to treat mental illness and neurological disease. Specifically, the lab is investigating how the acid sensing ion channels and extracellular pH fluctuations change neuronal signaling to control cell death following cerebral ischemia or injury. The lab focuses on dissecting the cellular signaling pathways that control acid-dependent cell death and determining how activation of specific G-protein coupled receptors can interfere with these processes to mediate neuroprotection.



Harmony Bench, PhD

Associate Professor
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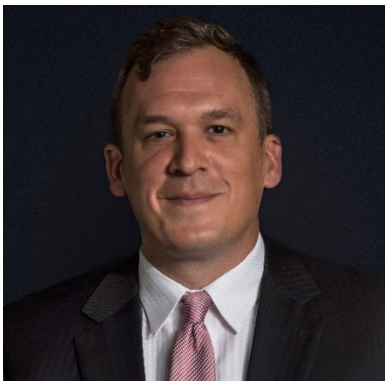
Harmony Bench is Associate Professor of Dance at The Ohio State University and author of *Perpetual Motion: Dance, Digital Cultures, and the Common* (University of Minnesota Press, 2020). Her research addresses practices, performances, and circulations of dance in the contexts of digital and screen media. For nearly a decade, she has collaborated with Kate Elswit to bring the digital humanities and dance history into greater dialogue through computational analysis and data visualization with projects such as *Dunham's Data: Katherine Dunham and Digital Methods for Dance Historical Inquiry* (www.dunhamsdata.org; winner of the 2021 ATHE/ASTR Award for Excellence in Digital Scholarship), and *Visceral Histories/Visual Arguments: Dance-Based Approaches to Data*. From 2014-2019, she co-edited *The International Journal of Screendance* with Simon Ellis, and in 2021, she guest-edited the special issue *This Is Where We Dance Now: COVID-19 and the New and Next in Dance Onscreen* with Alexandra Harlig. For 2022-23, she is a Fellow with the Global Arts + Humanities at The Ohio State University.



Leigh Bonds, PhD

Associate Professor
Digital Humanities Librarian
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E. Leigh Bonds, Associate Professor and Digital Humanities Librarian, consults with faculty and students on applying digital humanities (DH) approaches to their research and teaching, teaches DH praxis and pedagogy, collaborates on projects, and leads the campus DH network. After six years in this role, Leigh understands the importance of engaging the DH community and leveraging existing resources in coordinated, collaborative efforts to develop and sustain a dynamic, multifaceted support network. To inform those endeavors, she follows emerging trends, tracks new projects and initiatives, learns new methodologies and tools, and actively serves and contributes to conversations in her professional field. She is a DH practitioner and pedagogue with training in specific methods and best practices, and experience working on collaborative project teams. As an active member of the broader digital humanities community, Leigh chairs the Big Ten Academic Alliance's DH Group and reviews proposals annually for the Association of Digital Humanities Organizations' and the Association for Computers and the Humanities' conferences. At Ohio State, she serves as a GAHDT faculty fellow, co-leads the University Libraries' digital scholarship strategic initiative, and serves on University Senate, Faculty Council, and University Research Committee. Leigh holds a PhD in English from Texas Tech University.



Jordan Clark, PhD

Assistant Professor
Civil, Environmental, and Geodetic Engineering
Food, Agricultural, and Biological Engineering
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Dr. Jordan Clark studies novel ways of providing for environmental control, energy efficiency, and power demand management in commercial, residential and agricultural buildings. His research interests include modeling of buildings and indoor environments, sensor hardware, HVAC systems, and interaction of buildings with larger energy systems. He has contributed to development of several hyper-efficient cooling and dehumidification products and volunteers for efforts around standardization of testing and rating of hardware for smart control of indoor environments at ASHRAE and HVI. He is currently leading the US Department of Energy Connected Communities project at Ohio State University and serves as Chief Technology Officer for CoolYield Labs, LLC. Dr. Clark received his PhD and MS from the University of Texas at Austin, where he was a member of the Building Energy and Environments Research Group. Before starting at OSU, Dr. Clark held postdoctoral appointments at the National Renewable Energy Laboratory and Lawrence Berkeley National Laboratory. Dr. Clark is a native Ohioan and lifelong Buckeye fan.



Jessica Cooperstone, PhD

Assistant Professor

Department of Horticulture and Crop Science

Department of Food Science and Technology

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Jessica Cooperstone, Ph.D., is an Assistant Professor in the departments of Horticulture and Crop Science, and Food Science and Technology, and part of the Foods for Health Discovery Theme Initiative at The Ohio State University. Working at the intersection of plant, food, and nutritional sciences, her goal is to develop fruit and vegetable varieties that are purposefully designed for enhanced human health, backed up by clinical trial data and worthy of government supported health claims. Her interdisciplinary research group works to better understand 1) how genetic and environmental factors affect the biosynthesis of phytochemicals in crops, and 2) how these compounds affect human health. Projects in the Cooperstone Lab combine analytical chemistry (both through traditional chemical analyses, and broader untargeted chemical profiling) with plant genetics/genomics, transcriptomics, microbiome data, sensory science, and measures of health outcomes and utilizes bioinformatics-based approaches.



Karen Dannemiller, PhD

Associate Professor

Civil, Environmental, and Geodetic Engineering

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Karen C. Dannemiller, PhD directs the Indoor Environmental Quality research group, which addresses emerging environmental concerns within the built environment. She is an Associate Professor and COE Innovation Scholar at The Ohio State University with a joint appointment in Civil, Environmental & Geodetic Engineering and Environmental Health Sciences. She is also a core faculty member of the Sustainability Institute and has a courtesy appointment in Microbiology. Her work aims to improve understanding of chemical and microbial processes indoors that impact health while fostering student engagement. Funding sources include NSF, NIH, NASA, HUD, Alfred P. Sloan Foundation, and SOCHE/AFRL. Recent awards include National Science Foundation (NSF) CAREER Award, Buckeye Engineering Women in Executive Leadership (BEWEL) Leadership in Innovation Award, the Lumley Engineering Research Award, and selection in American Academy of Environmental Engineers and Scientists' 2022 40 under 40.



Sean Downey, PhD

Associate Professor
Department of Anthropology
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I am an ecological anthropologist whose research explores the social and environmental dynamics of farming and foraging societies, past and present. My work is guided by anthropology's traditional focus on human cultural and biological variability, which I believe can provide important insights into pressing questions about contemporary societies and the environmental sustainability. In order to achieve this potential, I believe it is important to develop and apply novel methods of data collection and analysis in our studies. Please see the website for the Human Complexity Lab for more information.



Laszlo Farkas, MD

Associate Professor
Division of Pulmonary, Critical Care and Sleep Medicine
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Dr. Laszlo Farkas was born in Budapest/Hungary and grew up in Germany, where he attended school and Medical School in Regensburg. He obtained his MD (MD/PhD equivalent) with a dissertation defense “summa cum laude” studying endotoxin effects in lung epithelial cells. After residency training at the University of Regensburg, Dr. Farkas joined Dr. Martin Kolb and Dr. Jack Gaudie at McMaster University as postdoctoral fellow to study molecular mechanisms of lung vascular and parenchymal remodeling. Dr. Farkas joined the faculty at Virginia Commonwealth University as instructor in 2011 with promotion to Assistant Professor in 2013. He built a nationally recognized research program studying endothelial cell and endothelial stem cell biology and inflammatory mechanisms of lung vascular remodeling at VCU. Publications include journals such as American Journal of Respiratory and Critical Care Medicine, Science Translational Medicine, and Journal of Clinical Investigation. Multiple grants from the NIH/NHLBI and the American Heart Association have supported his research program. In 2019, Dr. Farkas joined the growing Division of Pulmonary, Critical Care and Sleep Medicine at The Ohio State University to expand his research program. New areas of research include the role of endolysosomal dysfunction and SARS-CoV-2 induced endothelial dysfunction.



Erica Glasper, PhD

Associate Professor
Department of Neuroscience
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Erica R. Glasper earned a B.A. with honors from Randolph-Macon College in 2002, where she majored in Psychology. She went on to earn a M.A. (2004) and Ph.D. (2006) in Psychobiology and Behavioral Neuroscience at The Ohio State University. Dr. Glasper's postdoctoral studies began at Princeton University in 2006, where she was supported by fellowships from the UNCF/Merck Science Initiative and the NIH. In 2011, Dr. Glasper joined the faculty at the University of Maryland-College Park in the Department of Psychology as an Assistant Professor. It was there that she began her behavioral neuroendocrinology research program investigating how experiences shape our brain, behavior, and health. Following success as a researcher and educator, she was awarded tenure and promoted to the rank of Associate Professor in 2019. During the summer of 2021, Dr. Glasper returned to The Ohio State University, where she joined the Department of Neuroscience and the Institute for Behavioral Medicine Research within the College of Medicine as an Associate Professor with tenure and the Co-Director of a NIH-funded postbaccalaureate program. Her successful research program is currently funded by the NIH, The Ohio State University Medical Center, and the Institute for Behavioral Medicine Research.



Matthew Grizzard, PhD

Associate Professor
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Matthew Grizzard (PhD, Michigan State University) is an Associate Professor in the School of Communication at The Ohio State University. Situated within media psychology and communication, his research program examines moral judgment processes as they relate to the consumption of media entertainment, with a primary focus on evaluations of narratives and narrative characters. For example, current projects explore how viewers come to evaluate characters as heroes and villains, how relative differences between characters can explain the appeal of antiheroes, why viewers prefer some types of narrative endings over others, and what types of narrative content elicit moral emotions such as anger and guilt. His work on moral emotions seeks to understand how media violence can elicit moral emotions and how they might serve as motivators for prosocial responses. Dr. Grizzard is a member of the editorial boards for Human Communication Research, Media Psychology, and Psychology of Popular Media, and he is an associate editor of Journal of Media Psychology. He is also an officer in the Communication and Social Cognition Division of the National Communication Association. He has appeared as an expert in various popular press outlets including The New York Times, The Wall Street Journal, and the BBC.



Jennifer Hefner, PhD

Associate Professor

Division of Health Services Management and Policy

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Dr. Hefner is an associate professor in the Division of Health Management and Policy. She received both her Master of Public Health and PhD in health services organization and policy from the University of Michigan. Her research focuses on applying management and organizational theories to the study of the implementation and dissemination of healthcare and social services programs. Currently, Dr. Hefner is working on projects related to 911 response to mental health crisis, food insecurity among diabetic patients, virtual teams for first episode psychosis treatment, medication treatment for opioid use disorder, and Ohio Medicaid's Next Generation Managed Care program. Her work has been funded by grants from the NIH (NIA and NIDDK), the Robert Wood Johnson Foundation, the Ohio Department of Medicaid, and the Ohio Department of Mental Health and Addiction Services. Dr. Hefner teaches in the CPH MHA program and is also the editor of the annual book series *Advances in Health Care Management*.



Jeffrey Jacquet, PhD

Associate Professor

School of Environment and Natural Resources

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Jeffrey B. Jacquet is associate professor in the School of Environment and Natural Resources at The Ohio State University. One of the first sociologists to study the process of hydraulic fracturing, Jacquet has gone on to examine a range of renewable- and non-renewable-energy-related social and environmental systems at institutions including the University of Wyoming, Cornell University, and South Dakota State University. At Ohio State, Jacquet leads students through coursework and mentorship to examine the areas of energy, environment, and rural societies.



Rachel Kajfez, PhD

Associate Professor

Department of Engineering Education

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Dr. Rachel Louis Kajfez is an Associate Professor in the Department of Engineering Education at The Ohio State University. She is also the Associate Chair for Graduate Studies and Research Infrastructure in her department. She earned her B.S. and M.S. degrees in Civil Engineering from Ohio State University and earned her Ph.D. in Engineering Education from Virginia Tech. She joined the faculty at Ohio State University in 2013 as an Assistant Professor of Practice and transitioned to a tenure-track role after helping establish the Department of Engineering Education which grew out of the Engineering Education Innovation Center. She was also instrumental in creating Ohio State University's PhD program in Engineering Education. Her research interests focus on the intersection between motivation and identity of undergraduate and graduate students, first-year engineering programs, mixed methods research, and innovative approaches to teaching. She is the principal investigator for the Research on Identity and Motivation in Engineering (RIME) Collaborative and co-directs the Toy Adaptation Program. She has a passion for developing processes and working on collaborative transdisciplinary projects.



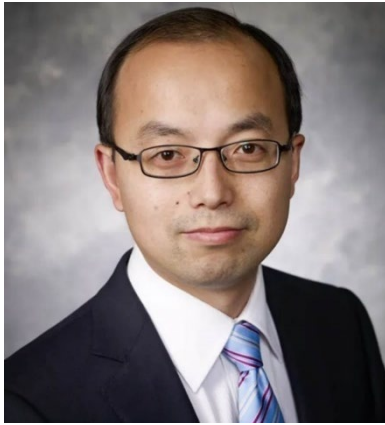
Bryce Kerlin, MD

Professor

Department of Pediatrics

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Bryce Kerlin, MD, is a Principal Investigator in the Center for Clinical & Translational Research in the Abigail Wexner Research Institute at Nationwide Children's Hospital. Dr. Kerlin is also Director of the Joan Fellowship in Pediatric Hemostasis-Thrombosis at Nationwide Children's Hospital, Director of the Blood Disease Research Affinity Group, an attending physician in the Division of Pediatric Hematology/Oncology/BMT and a Professor of Pediatrics at The Ohio State University College of Medicine. Dr. Kerlin's research is focused on the translational epidemiology of pediatric thrombosis, focusing on the clarification of biomarkers and clinical features linked to thrombosis, especially in pediatric kidney disease. He actively participates in clinical trials for new treatments in hemostasis and thrombosis, including new medications for hemophilia, von Willebrand disease, and blood clots. Dr. Kerlin earned his Bachelor of Science degree from Purdue University and his Medical Degree from the Medical College of Wisconsin. He trained in Pediatrics at Phoenix Children's Hospital, Pediatric Hematology/Oncology at Children's Hospital of Wisconsin and Coagulation Physiology at the Blood Research Institute (Milwaukee). Dr. Kerlin led the Hemophilia Treatment Center at Rady Children's Hospital where he was also an Assistant Professor of Pediatrics at the University of California, San Diego (UCSD) School of Medicine before joining the faculty at Nationwide Children's in 2004.



Zhiqiang Lin, PhD

Distinguished Professor

Dept. of Computer Science and Engineering

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Dr. Zhiqiang Lin is a Distinguished Professor of Engineering at The Ohio State University. His research interests center around systems and software security, with a key focus on (1) developing automated binary analysis techniques for vulnerability discovery and malware analysis, and (2) hardening the systems and software from binary code rewriting, virtualization, and trusted execution environment. He has published over 130 papers, 51 of which appeared in the top venues in cybersecurity including IEEE S&P, ACM CCS, USENIX Security, and NDSS. He has also served on the technical program committee of these conferences many times, chaired or co-chaired ISC (2019), FEAST (2019), ASIACCS (2021), and SECURECOMM (2022). Currently, he is an Associate Editor of ACM Transactions on Privacy and Security, ACM/IEEE Transactions on Networking. He was an associate editor of IEEE Transactions on Dependable and Securing Computing, and IEEE Transactions of Mobile Computing. He is a recipient of Harrison Faculty Award for Excellence in Engineering Education, NSF CAREER award, AFOSR Young Investigator award, and Outstanding Faculty Teaching Award. He received his Ph.D. in Computer Science from Purdue University.



Tasleem Padamsee, PhD

Assistant Professor

Health Services Management and Policy

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Dr. Tasleem J. Padamsee is an Assistant Professor in the OSU College of Public Health, and a Faculty Affiliate of the James Comprehensive Cancer Center and the Department of Sociology. A sociologist by training, Dr. Padamsee brings theoretical and methodological tools from sociology and women's studies to bear on public health problems. She is a scholar of health disparities and health systems, whose research program explores the intersections of social inequality, public policy, and health care. Her research has been funded by multiple federal agencies and private foundations. Dr. Padamsee leads the Daughter Sister Mother Project, which conducts multi-method studies of how diverse women at elevated risk for breast cancer make prevention decisions and how women can better be supported to manage their cancer risks. Since early 2020, Dr. Padamsee has been intensively involved in COVID-19 response, recovery, and research activities. She has helped shape Ohio's response to COVID-19 in historically marginalized populations, co-authored Ohio's COVID-19 Populations Needs Assessment, helped design the OSU Wexner Medical Center's mass COVID-19 vaccination site to advance regional health equity, and co-leads the C3-REACH research team (Committed to Communities Collaborative: Research and Engagement to Advance beyond COVID to Health Equity).



Shaurya Prakash, PhD

Associate Professor

Department of Mechanical and Aerospace
Engineering

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Shaurya Prakash graduated with a Ph.D. in Mechanical Engineering from the University of Illinois at Urbana-Champaign in 2007. Following his brief stint as an Assistant Professor at Rutgers University, he joined the faculty in the Department of Mechanical and Aerospace Engineering at The Ohio State University in 2009. At Ohio State, he directs the Microsystems and Nanosystems Laboratory, where his team pioneers scientific discovery to enable novel technologies for applications in healthcare, energy systems, and water purification. Prof. Prakash has published several papers, including a book titled “Nanofluidics and Microfluidics: Systems and Applications”. He is currently the co-lead for the Microbial Communities area for Ohio State’s Infectious Diseases Institute. His multi-disciplinary research is funded by diverse government and industry sponsors. Further information is available at: <https://msns.osu.edu>



Carolyn Presley, MD, MPH

Assistant Professor

Division of Medical Oncology

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Carolyn J. Presley, MD MHS is an Assistant Professor on the tenure track in the Division of Medical Oncology/Department of Internal Medicine at The Ohio State University, Comprehensive Cancer Center and The James Cancer Hospital/Solove Research Institute. She earned her undergraduate degree from the University of Minnesota, Twin Cities and her medical degree from Dartmouth Medical School. She completed residency in Internal Medicine and combined fellowship in Geriatric Oncology and Hematology at Yale University. She completed a Masters in Health Sciences, also at Yale, within the Robert Wood Johnson Foundation Clinical Scholars Program sponsored by the VA Connecticut Healthcare System. She is an active member of the Ohio State University Comprehensive Cancer Program, The American Geriatrics Society, and the American Society of Clinical Oncology. She has been a long-time member of the international Cancer and Aging Research Group (CARG). Dr. Presley currently leads studies focused on maintaining functional independence among older adults with lung cancer. These studies incorporate geriatric assessment, embedded palliative care, and interventions to improve risk factors for treatment toxicity and functional decline. She has been funded by the National Institute of Aging, the BMS Foundation, the Rising Tide Foundation, and is one of the first two women to ever receive the preeminent Paul Beeson Emerging Leaders in Aging Career Development Award at OSU and this month received the National LEAD Rising Star Award for Women in hematology and oncology.



Kelly Purtell, PhD

Associate Professor
Department of Human Sciences
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Kelly Purtell is an associate professor of Human Development and Family Science in the College of Education and Human Ecology. She is a faculty associate at the Crane Center for Early Childhood Research and Policy and a faculty affiliate of the Institute for Population Research. She received her Ph.D. in Psychology from the University of North Carolina-Chapel Hill and completed her postdoctoral fellowship at the Population Research Center at the University of Texas at Austin. Her research centers on understanding how contextual factors shape health and development among low-income children and adolescents, and on how policies and programs can enhance the developmental trajectories of these youth. Many of her current projects focus on policies and practices related to early childhood education and their influences on children's development. The primary themes of her current work are: 1) developing a comprehensive understanding of the classroom ecologies that children experience from preschool to grade 3, and the policies that influence them; 2) examining the ways in which classroom age composition influences children's learning and development in preschool; and 3) understanding the ways in which social and educational policies shape the environments experienced by children in families experiencing economic disadvantage.



Leah Pyter, PhD

Associate Professor
Department of Psychiatry
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Dr. Pyter is an integrative biologist with a PhD in behavioral neuroscience who is an Associate Professor in the Institute for Behavioral Medicine Research and the Department of Psychiatry at OSU. I have 20 years of research experience in behavioral neurobiology, the last 15 of which have been focused on neuro-immune interactions that contribute to behavioral side effects of chemotherapy (fatigue, cognitive and mood deficits). The overall mission of my research program is to improve the quality of life and health of cancer patients and survivors. The majority of my work has been directed at systematically identifying underlying biological mechanisms using rodent cancer models, although my lab has recently begun clinical research with breast cancer patients. My training in integrative biology (endocrinology, neuroscience, immunology) facilitates a transdisciplinary theme to how I approach research questions, primarily how various physiological systems in the body communicate with the brain and vice versa during/after cancer. In my free time, I love playing soccer, hiking with my dogs, and goofing off with my kids and spouse.



Catherine Quatman-Yates, DPT, PhD

Associate Professor

Division of Physical Therapy

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Dr. Quatman-Yates is Associate Professor in Division of Physical Therapy within the School of Health and Rehabilitation Sciences. She is dedicated to pursuing research that empowers individuals to engage in safe and physically active lifestyles across the lifespan. She is the director for the Leading Improvement-Focused Teams for Advancing Health System Outcomes Lab (LIFT Lab). She is diversely trained in philosophies and methods for a variety of inquiry paradigms including: classic experimental and quasi-experimental designs, naturalistic/qualitative approaches, complexity science approaches (e.g., social network analysis and non-linear time series analyses), and improvement/implementation science methods. Dr. Quatman-Yates leverages systems thinking/modeling and various investigative and analytic approaches to work toward ongoing improvement of patient outcomes for a variety of injuries and conditions. She has over 50 peer-reviewed publications and has presented her work in over 75 national and international venues. Dr. Quatman-Yates has received a number of awards related to her research including the Excellence in Research Award and New Horizon Award from the American Academy of Sports Physical Therapy and the Academy of Pediatric Physical Therapy's Toby Long Paper of the Year Award. Dr. Quatman-Yates was also a co-author on the now in press Clinical Practice Guidelines for Physical Therapy Evaluation and Treatment After Concussion/Mild Traumatic Brain Injury.



Audrey Sawyer, PhD

Associate Professor

School of Earth Sciences

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Audrey Sawyer is an Associate Professor of Earth Sciences at The Ohio State University and is the elected Divisional Chair of Climate, Water & Energy. She was a visiting scientist at the Spanish Research Council and Universitat Politècnica de Catalunya in Barcelona, Spain in 2021-2022. Audrey's research focus is surface water-groundwater interaction in streams and coastal waters. She seeks to understand how fluid flow influences water quality, its availability, and the implications for humans and ecosystems using computer models, laboratory tests, and field observations. She has authored over fifty scientific papers in peer-reviewed journals, including Science. She is also the recipient of the Kohout Early Career Award in Hydrogeology from the Geological Society of America. Some of her recent projects include rising sea levels and saltwater intrusion in coastal aquifers, nitrogen and phosphorus fate in rivers and groundwater, and water access in the United States and East Africa. She teaches courses in hydrogeology, water issues, and introductory geology. Audrey received a B.S. in geology and environmental engineering from Rice University, a M.Sc. in geoscience from the Pennsylvania State University, and a Ph.D. in geological sciences at the University of Texas-Austin. She conducted postdoctoral research at the University of Delaware.



Jonathan Slaughter, MD, MPH

Associate Professor
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Jonathan L. Slaughter, MD, MPH, is a neonatologist and principal investigator in the Center for Perinatal Research within The Abigail Wexner Research Institute at Nationwide Children's Hospital and an Associate Professor of Pediatrics at The Ohio State University. Dr. Slaughter's ultimate goal is to improve outcomes important to neonatal patients and their families through research that leads directly to improvements in neonatal clinical care. His patient-centered research program focuses on comparative effectiveness research to determine which treatments work best for neonatal patients given specific clinical circumstances and patient characteristics. Dr. Slaughter's two major NIH-funded research projects, 1) "Early Prediction of Spontaneous Patent Ductus Arteriosus (PDA) Closure and PDA-Associated Outcomes" (R01HL145032) and the 2) PIVOTAL Trial (UG3/UH3HL161338) focus on treatments and outcomes related to patent ductus arteriosus (PDA) in preterm infants. He also serves as the Nationwide Children's Hospital co-investigator/alternate principal investigator for the NICHD Neonatal Research Network.



Jonathan Song, PhD

Associate Professor
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Jonathan W. Song is an associate professor of mechanical and aerospace engineering and co-director of the Center for Cancer Engineering-CURES at Ohio State University. His research group has received funding from the National Institutes of Health, National Science Foundation, American Heart Association, American Cancer Society, and the Mark Foundation for Cancer Research and applies microtechnology, principles from tissue engineering, and quantitative engineering analysis for studying the physical dynamics of tumor and vascular biology. He is a recipient of the NSF CAREER and was named an Emerging Investigator by the Royal Society of Chemistry/Lab on a Chip. He received his B.S. degree in biomedical engineering from Northwestern University, earned his Ph.D. in biomedical engineering from the University of Michigan, and was a post-doctoral fellow in the Edwin L. Steele Laboratory for Tumor Biology at Massachusetts General Hospital/Harvard Medical School.



Alper Yilmaz, PhD

Professor

Civil, Environmental, and Geodetic Engineering

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Dr. Alper Yilmaz is a Professor of geoinformatics at The Ohio State University. He is a fellow of ASPRS, a senior member of IEEE, and a senior member of the NAI. Alper is serving as the president of the ISPRS Technical Commission II on Photogrammetry and the Editor-In-Chief for the Photogrammetric Engineering and Remote Sensing Journal. Alper's research focuses on biomimetic navigation systems for unmanned systems, mining anomalies in multi-physics and multi-dimensional geospatial data. Based on a recent study from Stanford University and Elsevier (October 19, 2021), Alper is listed among the top 2% most cited researchers in the fields of "Artificial Intelligence & Image Processing" and "Geological & Geomatics Engineering" in both career-long (1960-2021) and single year (2021) categories. Alper's research has received over \$12M in extramural funding from NASA, NSF, DOD, DOE, and industry, resulting in over 200 publications and patents that received over 12,500 citations (Google Scholar). Alper has been awarded the Outstanding Service Award in 2022 (ASPRS), the Innovator of Year (OSU) in 2020, Presidential citation in 2019 from ASPRS, honorable mention for the Masao Horiba Award (Japan) in 2016, the Lumley Interdisciplinary Research Award (OSU) in 2015, and the Lumley Research Award (OSU) in 2012. He has advised 24 Ph.D. and 15 M.Sc. students to completion on topics ranging from photogrammetry, machine learning, and computer vision who have found positions in prominent academic institutions, industry, and the government.

Talent and Team Development Office

The Talent and Team Development Office is building a continuum of programming to enable faculty to successfully pursue federal funding for research and creative expression by supporting early ideation, networking and teaming, as well as ongoing professional development. We centrally develop and collaborate with other University divisions to provide programming that supports OSU faculty in becoming research leaders and forming high-functioning interdisciplinary research teams.



PROFESSIONAL DEVELOPMENT ACROSS THE CAREER LIFESPAN

- NSF CAREER Proposal Development Program in partnership with the College of Arts and Sciences and College of Engineering
- Workshops such as Mapping Your Research Agenda and Making People Care: Elevator Speech Development Coaching



INTERDISCIPLINARY RESEARCH LEADERSHIP DEVELOPMENT

- GRO Academy - an 8-week program developing critical skills for leading interdisciplinary teams
- Continued opportunities to participate in the GRO community



INTERDISCIPLINARY TEAM DEVELOPMENT AND SUPPORT

- BIG Connections interdisciplinary networking events
- Interdisciplinary Innovation Team Development seed funding award

Research Development Office

The Research Development Office provides strategic support for multi-investigator, cross-disciplinary research teams to help increase the competitiveness of large, complex, and strategically significant federal research proposals. The nature and scope of services vary based on the amount of time until the proposal is due and the complexity of the opportunity. We invite you to engage with our Research Development Specialists as early possible to discuss opportunities.

We support researchers via:

Proposal Development

- Facilitation of limited competitions
- LCS2 (large, complex, strategically significant) proposal support, including:
 - Competitiveness assessment
 - In-house content review
 - Red team review with mock review panel

Capacity Building

- Resource toolkits (templates and samples) for specific funders and mechanisms
- Seed funding and strategic investments

Strategic Positioning

- Forward-looking topical and agency strategies
- Opportunity briefings and workshops
- Consultants for DOD and NASA/Space Research

To find a research development specialist in your area, please visit our website:

erik.osu.edu/oke-research-development

Office of Knowledge Enterprise
33 W 11th Avenue, 3rd floor



Welcome to the community of scholars and academics that comprise the Ohio State STEAM Factory! We're excited to share our collaborative culture with you.

Who We Are

We are a grassroots initiative that facilitates interdisciplinary collaboration in research, teaching and outreach.

Founded by a small group of 10 junior faculty, postdocs, and staff seeking to build an academic community that transcends disciplinary boundaries.

Located in a downtown neighborhood, alongside innovators in arts and technology, The STEAM Factory provides a space for scholars to engage with the broader community through research-based outreach that combines formal and informal learning.

What We Do

Our co-working space creates a nurturing environment to connect university researchers, students and the broader Columbus community.

We facilitate innovative collaborations across all research fields by connecting scholars from diverse disciplines through core programs such as STEAM Exchanges and STEAM-Powered Projects.

We increase public awareness of the impact of research at Ohio State through engaging outreach programs.

It is through the combined work of academic discipline and rigor, artistic expression, and community involvement that we continue to curate a culture of collaboration

Our Events

Coffee and Co-Working

Free coffee and space to catch up on work.

STEAM Afternoon Tea

Enjoy some fresh tea and the opportunity to collaborate with members from other disciplines.

STEAM Exchange

A salon-style seminar series run by STEAM members.

STEAM Happy Hour

Drink with and get to know other STEAM members.

Franklinton Fridays

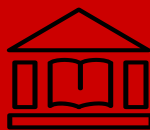
A collection of arts, research and interdisciplinary activity.

At The STEAM Factory, you're in collaborative company.



220

Members



46

Colleges & Centers



58

Departments

Learn more at steamfactory.osu.edu

What is the Research Commons?

A campus community where faculty, postdocs, and graduate students can connect with experts for support at any stage in the research lifecycle.

A venue for exploring collaborative, interdisciplinary, and emerging research methods, with a special focus on Data Management and Visualization, Digital Humanities, Geographic Information Systems (GIS), and Research Impact.

Supporting the Research Lifecycle



**Office of Knowledge Enterprise
Talent and Team Development
erik.osu.edu/talent-team-development**

Contact our team:

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