2019 ADVANCED METHODS CONFERENCE
THE EXPANDING SCIENCE OF SENSOR TECHNOLOGY IN RESEARCH

OCTOBER 23–24, 2019

ON-SITE PROGRAM
COUNCIL FOR THE ADVANCEMENT
OF NURSING SCIENCE

BETTER HEALTH THROUGH NURSING SCIENCE

An Open Membership Council of the
American Academy of Nursing
The 2019 Advanced Methods Conference will focus on sensor technology in research. Recent advances in electronic technology and data science have enabled monitoring of many human biological and behavioral characteristics and symptoms, as well as environmental factors in real time, during daily life, and in healthcare settings. Coupled with advances in data science, sensor technology provides many opportunities for nursing science. Collection of data on temporal patterns and changes in these phenomena over time, remote monitoring, self-monitoring, and opportunities for feedback and communication between healthcare professionals and patients are among a few areas for advancement. Emerging technology may present new opportunities to address research questions in novel ways and stimulate new areas of inquiry. The purpose of this advanced methods conference is to provide a forum to assist participants in understanding the use of sensor technology in nursing research.
Dear Colleagues,

On behalf of the Council for the Advancement of Nursing Science’s Leadership Council and Planning Committee for the 2019 Advanced Methods Conference, it is a pleasure to welcome you! The planning committee has focused on the timely topic of *The Expanding Science of Sensor Technology in Research*, and has gathered expert speakers to address the subject.

As nurse scientists recognize the increasing role sensors and associated technology play in the real-world environment, this program will provide attendees with perspectives on sensor technology from several different lenses. We will begin with a keynote presentation from Dr. Nancy Redeker, *Sensor Technology to Advance Nursing Science*. We will then take a deeper look at *Ethical Considerations in Sensor Technology in Research*, *Sensor Technology: Exemplars Across the Lifespan*, and *Analytics in Sensor Technology in Research*, all presented by several top experts in the field. The program will also offer opportunities for updates on funding from federal agencies, face to face meetings with NINR Program Directors, and the presentation of excellent abstracts in the field of sensor technology.

Please plan to join us next year, September 17-19, 2020 at the Grand Hyatt Washington, DC for the 2020 State of the Science Congress on Nursing Research. We hope that you will consider submitting an abstract for the Congress. For more information, visit the Council’s website at www.nursingscience.org.

Again, welcome to all, and please enjoy the conference!

Sincerely,

Annette DeVito Dabbs
PhD, RN, ACNS-BC, FAAN
Co-Chair 2019 Advanced Methods Planning Committee

Kathy Sward
PhD, RN, FAAN
Co-Chair 2019 Advanced Methods Planning Committee

Holli DeVon
PhD, RN, FAHA, FAAN
Chair, CANS Leadership Council
CANS LEADERSHIP

2019 LEADERSHIP COUNCIL

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Join us on Twitter and Facebook.

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COUNCIL MEMBERSHIP

Did you receive a discount for this conference?
Join the Council and save on your next conference registration!

OUR VISION
To be recognized as the collective, national voice for nursing science.

OUR MISSION
Promote better health through nursing science.

MEMBERSHIP BENEFITS INCLUDE:

- Discounted conference registration fees for CANS Advanced Methods and State of the Science conferences
- Subscription to Nursing Outlook, the American Academy of Nursing’s and the Council’s official journal
- Access to a searchable membership directory and members only discussion community
- Ability to network with peers for national advocacy of nursing science
- The opportunity to nominate someone for or to receive Council awards

FOR MORE INFORMATION, PLEASE VISIT:
www.NursingScience.org
CONTINUING NURSING EDUCATION

PURPOSE

The conference program will address the following topics:

1. The application of new and emerging sensor technology to nursing research
2. Approaches to selecting sensors that best address the nature of the phenomena to be studied, the physical nature of the sensors, human subjects and investigator needs, and approaches to data analytics
3. The principles of user-centered design in designing, selecting and applying sensor technology
4. Innovative approaches to data collection, data management, and data analysis using sensor technology
5. Areas of nursing research that would benefit from emerging sensor technology and data analytics

CONFERENCE LEARNING OUTCOMES

• Participants will acquire the knowledge needed to use sensor technology in research.
• Participants will gain knowledge to apply analytic methods for data display and interpretation of findings.

CONTACT HOURS

• Participants may earn up to a total of 9.25 contact hours for attending all sessions and poster presentations. 7.75 hours can be earned from attending the general sessions, and 1.5 hours can be earned from attending both poster presentations.
• Contact hours will be awarded separately for each component.
• Successful completion for obtaining contact hours for presentations requires attendance for full presentations.
• Successful completion for obtaining contact hours for viewing posters requires attending full 45-minute segments, 0.75 contact hours will be awarded for each segment attended.
• Contact hours are awarded by the American Academy of Nursing upon completion of the conference evaluation form. A link to the form will be provided following the event.

CONFLICTS OF INTEREST

No event planner or scheduled speaker has disclosed a relevant conflict of interest

SPONSORSHIP FOR CONTINUING NURSING EDUCATION ACTIVITIES

The National Institute of Nursing Research is sponsoring the Poster Sessions.
The University of California Los Angeles is sponsoring the Keynote Session.
The Ohio State University is sponsoring a Panel Session.
Texas A&M University is sponsoring a Panel Session.
The University of New Mexico is sponsoring a Panel Session.
Yale University is sponsoring a Panel Session.

The American Academy of Nursing is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation.
### 2019 CONFERENCE AGENDA

**Wednesday, October 23, 2019**

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<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>7:30AM – 3:00PM</td>
<td>Registration Open</td>
<td>Capitol/Congress Foyer</td>
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<tr>
<td>7:30AM – 8:45AM</td>
<td>Continental Breakfast</td>
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<td>8:00AM – 4:00PM</td>
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<td><em>Theoretical Underpinnings of Sensor Technology in Research</em></td>
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<td>Dr. Bonnie Gance-Cleveland</td>
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<td>Dr. Rachel Walker</td>
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<td>Moderated by Dr. Cynthia Dougherty</td>
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<td>10:00AM – 10:15AM</td>
<td>NINR Update</td>
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<td>Dr. Tara Schwetz</td>
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<td>NIH Associate Deputy Director and Acting NINR Deputy Director</td>
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<tr>
<td>10:15AM – 10:30AM</td>
<td>Networking Break</td>
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<td><em>Sensor Technology to Advance Nursing Science</em></td>
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<td>Dr. Nancy Redeker</td>
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<td>11:30AM – 12:15PM</td>
<td>Poster Session I</td>
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<td>Boxed Lunch Pick-up (pre-purchased ticket required)</td>
<td>Supreme Court</td>
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<td>NINR Directors Panel</td>
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<td>1:15PM – 2:30PM</td>
<td>Panel Presentation:</td>
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<td><em>Ethical Considerations in Sensor Technology in Research</em></td>
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<td>Dr. George Demiris</td>
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<td>Moderated by Dr. Rosemary Kennedy</td>
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<td>2:30PM – 3:15PM</td>
<td>Poster Session II</td>
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<td>2:30PM – 3:15PM</td>
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<td>2:30PM – 3:15PM</td>
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<td>3:15PM – 4:15PM</td>
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<td><em>Federal Perspectives and Grant Opportunities</em></td>
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<td>Dr. Jeri Miller</td>
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<td>Dr. Gyasi Moscou-Jackson</td>
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### Special Interest Groups (SIGs)

Special Interest Groups (SIGs) are designed for like-minded individuals who are members of CANS and who seek the opportunity to network with others with similar interests or concerns from across the country, whether this networking is in-person or online. SIGs are meant to engage members that may be nurse researchers at a similar point in their career development or engaged in a specific research role.

- Early Career
- Clinical Nurse Scientist
- Mid-Career
- Research Editors

### Join Us for Our Networking Opportunities

Join the Early Career SIG for a networking break.

**Wednesday, October 23, 2019**

10:15AM – 10:30AM | Mint Room

Join the Mid-Career SIG for a networking break.

**Friday, October 25, 2019**

8:00AM – 9:00AM | Farragut North Room

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If you are interested in participating in a SIGs, please contact Rachael James at rjames@aannet.org.
Rachel K. Walker is the first and only nurse to serve as an Invention Ambassador for the American Association for the Advancement of Science. They are an Associate Professor and PhD Program Director at UMASS Amherst College of Nursing, and Associate Director of the UMASS Amherst Center for Health & Human Performance: a multidisciplinary translational science center that specializes in sensors, nanotextiles, and other digital health technologies.

Dr. Walker completed their PhD and postdoctoral fellowship at Johns Hopkins School of Nursing. Their research focuses on nursing invention as a vehicle for social justice, co-opting technology for community, and co-creating tools to promote dignity, capability, and a sense of well-being in the context of symptom-related disability, challenges such as medical gaslighting, and cancer. Recent features about their work and advocacy for more inclusive, equity-centered invention practices have appeared in Forbes, GO Magazine and Scientific American, on NPR and Facebook studios, and in the journal Science.

Bonnie Gance-Cleveland is the Loretta C. Ford Professor at the University of Colorado Anschutz Medical Campus in the College of Nursing. Her research focuses on harnessing technology to decrease health disparities in vulnerable populations. She does this by collaborating with interdisciplinary professional organizations to develop evidence-based, culturally-sensitive practice guidelines and using technology to improve adherence to clinical practice guidelines. Dr. Gance-Cleveland has been funded by NIH to evaluate school-based support groups for adolescents with an addicted parent, by HRSA to conduct a statewide quality improvement initiative for SBHCs, foundations to evaluate outcomes of interventions in school-based health centers, by AHRQ to conduct a comparative effectiveness trial of web-based intervention with and without technology decision support in diverse populations of youth in 24 school-based health centers in six states. Finally, she has been funded an AHRQ grant to develop prenatal screening for risk and protective factors.

Dr. McDonald has received several awards for her research, including the Alumni Emerging Scholar Award from the Villanova University School of Nursing and the Rising Star Research Award from the Eastern Nursing Research Society.

Catherine C. McDonald is an Assistant Professor of Nursing in the Family and Community Health Department at the University of Pennsylvania (PENN) School of Nursing, a Senior Fellow with the Center for Injury Research and Prevention at Children's Hospital of Philadelphia, and a fellow with the American Academy of Nursing. Dr. McDonald is building a program of research aimed at promoting health and reducing injury in youth. Her clinical background is in pediatric nursing, and she received her BSN from Villanova University, her MSN from Monmouth University, and her PhD in Nursing from PENN. Dr. McDonald has focused her research on the complex interplay of factors that contribute to adolescent morbidity and mortality associated with different types of intentional and unintentional injury (e.g. violence and vehicular crashes). Her research on teens and risky driving behaviors is funded by the National Institute of Nursing Research (NINR) at the National Institutes of Health and the Centers for Disease Control. She has presented at conferences and published in nursing and interdisciplinary peer-reviewed academic journals.
Cynthia M. Dougherty is the Charles and Gerda Spence Endowed Professor in Nursing at the University of Washington School of Nursing, and an adult nurse practitioner in cardiology at the VA Puget Sound Health Care System-Seattle, WA. Dr. Dougherty is a nationally and internationally recognized expert on recovery of physical functioning, psychological adjustment, and quality of life in persons who have suffered sudden cardiac arrest and have received an ICD. Most recently, she has conducted trailblazing research in exercise after an ICD, the importance of including the partner in intervention programs following initial ICD implantation, and goals of care communication in advanced heart failure. What most distinguishes Dr. Dougherty is her synthesis of research and clinical practice. The impact of her work has broad translation to clinical and policy arenas by providing the evidence to change future practice.

**WEDNESDAY, OCTOBER 23**

**Keynote Presentation:**
*Sensor Technology to Advance Nursing Research*

Dr. Redeker's program of research addresses the contributions of sleep and sleep disorders to symptoms, function, and quality of life among people with or at risk for acute and chronic conditions and the development of ecologically valid behavioral interventions to promote sleep health. Dr. Redeker is currently conducting a study, funded by the National Institute of Nursing Research, focused on the sustained effects of cognitive behavioral therapy for insomnia among patients with stable heart failure and a study of the effects of treatment of sleep apnea on function in people who have experienced stroke. She is a collaborator and/or mentor on several studies addressing sleep in hospitalized patients and others addressing the biobehavioral effects of sleep and sleep interventions across the lifespan.

Dr. Redeker is the Chair-elect of the Council for Advancement of Nursing Science, the national voice for nursing science. She recently completed a term on the Advisory Council to the National Institute of Nursing Research and was a member of the Advisory Board to the National Sleep Research Network. She is editor (with Dr. Geoffry Phillips-McEnany) of “Sleep Disorders & Sleep Promotion in Nursing Practice,” the first textbook focused on the uptake of scientific evidence about sleep into nursing practice that earned an American Journal of Nursing Book of the Year Award. She is Editor in Chief of Heart & Lung: The Journal of Acute & Critical Care.

Dr. Redeker holds a PhD (New York University); MSN and BSN (Seton Hall University), and a BA in Sociology (Rutgers, The State University of New Jersey). She is a fellow of the American Academy of Nursing and the American Heart Association and was inducted into the Sigma Theta Tau International Nurse Researcher Hall of Fame.

Nancy S. Redeker is the inaugural Beatrice Renfield Term Professor of Nursing and Director of the Center for Biobehavioral Health Research at Yale School of Nursing. She holds an appointment in the Department of Internal Medicine (Division of Pulmonary Critical Care, and Sleep Medicine) at Yale School of Medicine and was Principal Investigator of the highly successful NIH/NINR funded Yale Center for Sleep Disturbance in Acute and Chronic Conditions.
SPEAKERS
(in order of appearance)

WEDNESDAY, OCTOBER 23
Panel Presentation:
*Ethical Considerations in Sensor Technology in Research*

George Demiris
PhD, FACMI

George Demiris is a Penn Integrates Knowledge (PIK) University Professor at the University of Pennsylvania School of Nursing with a joint appointment in Biostatistics, Epidemiology and Informatics, Perelman School of Medicine. He is a Fellow of the American College of Medical Informatics and the Gerontological Society of America as well as the International Academy of Health Sciences Informatics. His research is exploring innovative ways to utilize technology and support patients and their families in various settings including home and hospice care. He is co-founder of the Hospice Caregiving Research Network. He has conducted numerous federally funded studies and his work has been funded consistently over the years both by the National Institutes of Health (NIH) and the National Science Foundation (NSF). He has designed “smart home” solutions for aging, and studied digitally augmented residential settings to facilitate passive monitoring and support independence and quality of life for community dwelling older adults.

Erin Rothwell
PhD

Erin Rothwell is the Associate Vice President of Research in the Office of Research Integrity and Compliance at the University of Utah. She has extensive experience in bioethics and human subjects protections. Dr. Rothwell’s program of research focuses on patient decision making and the ethical implications of emerging technologies within the context of genomics, population screening and public health across the reproductive continuum of care. She is currently the contact principal investigator on a NIH grant to improve the consent process for the storage and research use of residual newborn screening blood spots and recently completed another clinical trial funded by NIH to improve patient decision-making for prenatal screening.

Connie M. Ulrich
PhD, FN, FAAN

Connie M. Ulrich is a nurse bioethicist and the Lillian S. Brunner Endowed Chair at the University of Pennsylvania School of Nursing where she is a Professor of Bioethics and Nursing. She also holds a secondary appointment in the School of Medicine, Department of Medical Ethics and Health Policy. She went on to be the first nurse postdoctoral fellow in bioethics at the National Institutes of Health, Department of Bioethics from 2001-2003.

Dr. Ulrich’s research has focused on the intersection of professional and ethical agency, clinical and research practice, and outcomes of care. She has developed conceptual frameworks and designed measures to uncover and test the impact that ethical issues have on healthcare providers, researchers, patients and families and outcomes of care. Her current 5-year R01 (R01CA196131) from the National Cancer Institute builds on her successful R21 (NINR) to better understand factors that influence the retention of cancer clinical trial participants and issues related to informed consent. In this study, the research team is examining a multitude of variables, including using innovative scientific visualization techniques to understand the benefits and burdens of research participation in differing subgroups. She is also funded by the Fogarty International for global work in Tanzania on developing and building bioethics infrastructure. Dr. Ulrich’s team science approach to bioethics includes inter-professional colleagues in various disciplines, including bioethics, philosophy, cancer and end-of-life care, measurement and statistics, mixed methods, communication science, transitional care, and recruitment and retention science. Dr. Ulrich’s research and commentaries have been published in medicine, nursing,
bioethics, and other professional and lay consumer forums with her work being highlighted in an ethics publication by the Presidential Commission for the Study of Bioethics under President Obama.

Dr. Ulrich’s recent 2018 book entitled “Moral Distress in the Professions” highlights the ethical challenges of all team members in providing ethical care. She is a fellow in the American Academy of Nursing, a Salzburg global seminar Fellow, and a Sigma Theta Tau International Hall of Fame Nurse Researcher honoree. She is committed to the continued development of bioethics scholarship to address the most pressing bioethical questions for the public and the patients nurses will serve in the coming years.

Dr. Kennedy's scholarship related to body worn sensors includes: development of methods for measuring ROI (quality, cost, and satisfaction); integration of clinician documentation with patient reported outcomes (PROs) in a single user interface; development of virtual practice models to bridge communication/decision-making between clinical team members and patients within disparate locations; and research on human factors and usability testing for body worn medical devices in preparation for FDA submission.

Dr. Kennedy was Vice President of Health Information of Technology at the National Quality Forum (NQF) in Washington, DC, working on eCQMs for Meaningful Use. While at NQF, she was responsible for development of HHS data standards and electronic quality measures for federal programs, including the Medicare Access and CHIP Reauthorization Act (MACRA) and the Meaningful Use Program. Dr. Kennedy is currently engaged in the development of denova measures in collaboration with CMS initiated work.

She has more than 30 years of expertise in the development and implementation of electronic health records with a focus on terminology, integration of evidence-based guidelines within the EHR, quality measurement, and clinical decision support. She managed the first HHS funded eMeasure Learning Collaborative including public/private stakeholders in quality measurement chartered to assess opportunities, challenges, and solutions using EHR data for quality improvement. She is past Member of the Office of the National Coordinator’s Standards Subcommittee focused on quality measure data standards and EHRs.

Dr. Kennedy is widely presented and published in the field of nursing informatics, clinical documentation and terminology standards. She is a fellow in the American Academy of Nursing and received the HIMSS 2009 Nursing Informatics Award as well as the top 25 women in healthcare award for 2009. For many years, she was the Chief Nursing Informatics Officer for Siemens Healthcare Solutions.
A staff member of the National Institute of Nursing Research (NINR) since 2008, Jeri L. Miller holds several programmatic and administrative roles within the Division of Extramural Science Programs (DESP). She serves as the Chief of the Office of End-of-Life and Palliative Care Research (OEPCR) with a mandate to expand the national leadership of NINR in end-of-life and palliative care science. She oversees the NINR Research Centers Program whose Centers of Excellence (P30) and Exploratory Development Centers (P20) continue to be at the forefront of nursing science and as contemporary innovators in mentoring our next generation of nurse researchers in the areas of symptom science, wellness, self-management, and end-of-life and palliative care. In addition, Dr. Miller has served the NINR as Acting Deputy Director of the Division of Extramural Science Programs and as a senior Health Science Policy Analyst within the Division of Science Policy and Public Liaison. She also is the project scientist on several Trans-NIH Health Care Systems Collaboratory UH2/UH3 pragmatic clinical trials.

Dr. Miller has held numerous professional, academic, and scientific positions including a post-doctorate and clinical scientist appointment within the NIH Intramural Research Program. She is an internationally recognized speaker and author representing NINR in initiatives across the NIH and in collaborations with numerous federal agencies within the U.S. Department of Health and Human Services (HHS) including the Health Resources and Services Administration (HRSA), the Administration for Community Living (ACL), and the Agency for Healthcare Research and Quality (AHRQ). Dr. Miller is a member of the National Academies of Sciences, Engineering and Medicine’s (NASEM) Roundtable on Quality Care for People with Serious Illness and is a scientific participant in countless organization programs. An advocate for nursing science at all levels, her vision in building the NINR-supported Palliative Care Research Cooperative (PCRC) group as a resource for training, mentoring, increasing diversity, and supporting the work of nurse scientists at all levels of career development has garnered national recognition of NINR’s impact in palliative care science, most recently, the American Academy of Hospice and Palliative Medicine’s Presidential Citation Award.

Gyasi Moscou-Jackson is a Program Officer for the Healthcare Delivery and Disparities Research program at the Patient-Centered Outcomes Research Institute (PCORI). Dr. Moscou-Jackson manages a multi-million-dollar portfolio of comparative effectiveness research studies that compare health systems interventions intended to improve the accessibility and quality of care across a variety of clinical populations. She has published manuscripts on various topics that promote health and quality of life in patients with chronic diseases, including sickle cell disease. In addition to research, she is as a registered nurse with experience delivering clinical care in acute and primary care settings.

Dr. Moscou-Jackson received an MHS with a concentration in health communication from Johns Hopkins University School of Public Health, and a BSN and PhD in nursing from Johns Hopkins University School of Nursing.
Marjorie Skubic received her PhD in Computer Science from Texas A&M University in 1997, where she specialized in human-robot interaction. She is currently a Professor in the Electrical Engineering and Computer Science Department at the University of Missouri. In addition to her academic experience, she has spent 14 years working in industry as a software developer. Her current research interests include sensor networks for ambient intelligence, preventative health screening and rehabilitation tools, and user interfaces to foster proactive healthcare. In 2006, Dr. Skubic established the Center for Eldercare and Rehabilitation Technology at the University of Missouri and serves as the Center Director for this transdisciplinary team. The center’s work supports proactive models of healthcare such as monitoring systems that noninvasively track the physical and cognitive health of elderly residents in their homes and generate alerts for health changes, increasing fall risk, and actual fall events. Recent work has also investigated automated screening of athletes and pianists to flag injury risks, with support for preventative exercises to reduce the risk, as well as rehabilitation support for stroke patients and patients recovering from hand surgery.

Allison Vorderstrasse is Associate Professor of Nursing and Director of the Florence S. Downs PhD Program in Nursing Research and Theory at the NYU Rory Meyers College of Nursing. Dr. Vorderstrasse’s research in the development and implementation of behavioral interventions for diabetes and cardiovascular disease (CVD) aims to expand preventive and self-management support for adults at risk for, or living with chronic diseases. She is among the first to demonstrate that virtual environments are a feasible and effective way to provide self-management education and support to improve outcomes in diabetes and CVD. Her contributions in chronic disease prevention have identified that genetic risk testing for chronic conditions may improve risk reduction in particular groups. Her research has been supported with competitive funding from the Air Force Medical Sciences, NINR, NLM and NHLBI.

Dr. Vorderstrasse is co-director of the NYU Meyers P20 Center for Precision Health in Diverse Populations, Precision Health Technology Resource Core Director. Through her presentations, consultations and research studies, she has been a thought leader for research, education and policy in nursing and the implementation of novel technologies, such as genomics and virtual environments.
Teresa Ward's program of research focuses on the promotion of sleep health, symptom science, health outcomes, and the underlying mechanisms of obstructive sleep apnea in preschool and school age children with and without chronic conditions (asthma, autism, chronic pain, juvenile arthritis, lupus) and their caregivers. With her team, Dr. Ward studies the effect of sleep deficiency (inadequate amount of sleep, poor quality) on caregiver-child dyad interactions, symptoms (pain, fatigue, anxiety, depression), and health outcomes (quality of life, cognition, healthcare utilization). Their team has begun to develop web-based interventions that integrate technology and shared management approaches that provide children and their parents with the knowledge and skills to help children sleep better.

Mary Elizabeth Bowen is a social gerontologist with interests in efficacy trials of health care technologies to inform translational research and system-wide implementation. Specifically, Dr. Bowen utilizes unique methods and measures from sensitive and specific real-time ultra wideband tracking and other sensor technologies to show how intra-individual changes in ambulation characteristics are associated with imminent falls and other acute events (e.g., UTIs, delirium) in a vulnerable population of older adults. The outcome of Dr. Bowen’s current VA Rehabilitation Research and Development award is to utilize real-time tracking to develop tailored nursing interventions to prevent/delay acute events among institutionalized older adults with cognitive impairment. Dr. Bowen received her PhD in the Sociology of Aging and Population Health from Virginia Tech and has a graduate Certificate in Gerontology and Race and Social Policy.

Marilyn Hammer has dedicated her program of research to understanding associations between glycemic status and immune function in patients with cancer, including how these mechanisms impact risks for infections, organ dysfunction, worse symptom experiences, and early mortality. These investigations that have been federally, regionally, and institutionally funded include understanding individual biosignatures (e.g., demographic, genomic/epigenomic, treatment, environmental, behavioral factors) that place patients at greatest risk for perturbations in glycemic status, termed malglycemia, that can increase the risks for adverse events and outcomes in people affected by cancer. In addition, she has published a body of work related to precision health and associated ethical, legal, and social implications in oncology research. Dr. Hammer is a Fellow in both the American Academy of Nursing and the New York Academy of Medicine.

Benjamin M. Marlin is an associate professor in the College of Information and Computer Sciences at UMass Amherst. His research focuses on the development of probabilistic models and algorithms for time series data with applications to clinical and mobile health data analytics and the Internet of Things. He also works on the development of embedded and distributed learning systems for supporting real-time data analysis. His work has been...
Ryan J. Shaw is an Associate Professor at the Duke University Schools of Nursing and Medicine. He is also the Faculty Director of the Duke Mobile App Gateway—a digital health initiative of the Duke Clinical & Translational Science Institute.

Dr. Shaw works with teams of scientists and clinicians to advance the field of precision health through the use of mobile technologies, known as ‘Mobile Health’—the collection and dissemination of health information using mobile and sensing technologies. These technologies afford researchers, clinicians, and patients a rich stream of real-time information about individuals’ environment, and biophysical and behavioral health in their everyday lives. His goals are to identify and optimize novel, useful methods of collecting, visualizing, and disseminating healthcare data to (1) better inform our understanding of human disease and (2) improve patient and clinical decision-making.

His research is funded by the National Institutes of Health and the National Science Foundation, the National Institutes of Health, the Patient-Centered Outcomes Research Institute, the Army Research Lab, and the Intelligence Advanced Research Projects Activity. Prior to joining UMass Amherst, Marlin was a fellow of the Pacific Institute for the Mathematical Sciences and the Killam Trusts at the University of British Columbia. Dr. Marlin completed his PhD in machine learning in the Department of Computer Science at the University of Toronto.

supported by the National Science Foundation, the National Institutes of Health, the Patient-Centered Outcomes Research Institute, the Army Research Lab, and the Intelligence Advanced Research Projects Activity. Prior to joining UMass Amherst, Marlin was a fellow of the Pacific Institute for the Mathematical Sciences and the Killam Trusts at the University of British Columbia. Dr. Marlin completed his PhD in machine learning in the Department of Computer Science at the University of Toronto.

Ann-Margaret Navarra is an Assistant Professor at New York University (NYU) Rory Meyers College of Nursing, and board certified pediatric nurse practitioner. She earned a PhD after a 19-year trajectory as an academic clinician. Her research training includes National Institutes of Health (NIH) funded pre and post-doctoral fellowships (T-90 & T-32) supported by Columbia University School of Nursing. Dr. Navarra recently completed a Mentored Patient-Oriented Research Career Development Award from the National Institute of Nursing Research (NINR) - Adherence Connection for Counseling, Education, and Support (ACCESS): A Proof of Concept Study, K23NR015970. Study findings provided evidence of feasibility and acceptability for a peer-led videoconferencing adherence intervention among HIV-infected adolescents and young adults. Dr. Navarra has presented at regional and national meetings and has published in leading peer reviewed journals. Dr. Navarra’s external service activities include peer-review for multiple scholarly journals, and the American Nurses Foundation Research Grant Scholars Program. As Board Member-at-Large for the Eastern Nursing Research Society, Dr. Navarra is liaison to 16 research interest groups (RIGS). Her contributions to nursing science were recognized by peers at Columbia University School of Nursing in being selected as the recipient of the 2018 Distinguished Alumni Award for Nursing Research. Presently she serves as Co-Director of the Health Technology Resource Core of P20 Center for Precision Health in Diverse Populations at NYU Rory Meyers College of Nursing.

Ryan J. Shaw
PhD, RN}

Ann-Margaret Navarra
PhD, RN, MBA, FAAN
POSTER SESSION INFORMATION

Each author has been assigned a specific 45-minute time frame to present and discuss their poster. An author of each poster will be available during the scheduled e-poster sessions:

POSTER SESSION I | 11:30AM – 12:15PM

POSTER 1  A Novel Approach to Collecting Activity Data in Rural Areas
Erica Schorr, Rebecca Brown, Diane Treat-Jacobson

POSTER 2  Re-Thinking the “Red Zone” in Campus Sexual Assault
Donna Scott Tilley, Ann Kolodetsky

POSTER 3  Heart Rate Variability Sensors: Veterans Dog Walking RCT
Erika Friedmann, Cheryl Krause-Parello, Kelly Blanchard, Megan Payton, Nancy Gee

POSTER 4  Development of Heart Failure Decompensation Skin Sensors
Mary Ann Leavitt, Waseem Asghar, Imadeldin Mahgoub, Sarah Du

POSTER 5  HomeSHARE: Multi-site Smart Technology Infrastructure
Blaine Reeder, Eric Gutierrez, Ewelina Pena, Haley Molchan, Kay Connelly, Katie Siek, Kelly Caine, George Demiris

POSTER 6  Personal Diabetes Device Data Collection for Research
Eileen Faulds

POSTER 7  Temperature and Sleep in Adults with Multiple Sclerosis
Rebecca Lorenz, Hanbin Zhang, Wenyao Xu, Yu-Ping Chang

POSTER 8  Smart Home Sensor Data Visualization for Older Adults
Yong K Choi, Abhishek Pratap, Hilaire Thompson, George Demiris

POSTER 9  Real Time HIV Prevention Intervention for Homeless Youth
Diane Santa Maria, Nikhil Padhye, Lourence Misedah, Alexis Sims, Jennifer Torres, Michael Businelle

POSTER 10  Sensors in the Homes of People with Multiple Sclerosis
Pamela Newland, Alica Flach, Marilyn Rantz, Rebecca Lorenz

POSTER 11  Evaluation of Technology to Identify Missed Nursing Care
AkkeNeel Talsma, Jan Llren, Becky Pogacar

POSTER 12  Home Environments and Quality of Life in Older Asthmatics
Barbara Polivka, Rodney Folz, Russell Barnett, Diane Endicott, Carol Norton

POSTER 13  Sensor Technology: Mexican American Caregiving Families
Janice Crist, Kimberly Shea, Rachel Peterson, Kayla Luque, Jessica Powell, Jian Liu, Lori Martin-Plank, Cheryl Lacasse, Beverly Heasley, Linda Phillips

POSTER 14  Sleep and Glucose Patterns in Youth with Type 1 Diabetes
Stephanie Griggs, Elizabeth A. Doyle, Kaitlyn Rechenberg, Margaret Grey

POSTER 15  Kangaroo Mother Care: A Non-Pharmacologic Intervention to Support Attachment and Reduce Stress in Mother-Infant Dyads Impacted by Newborn Opioid Withdrawal Syndrome
Lisa Cleveland, Kelly McGlotten-Bell, Ashley Emmerich, Leticia Scott, Natasha Bibriescas, Danny Wang

POSTER 16  Creating a Sensor System to Improve Cancer Pain Management
Virginia LeBaron, Leslie Blackhall, Randy Jones, Kate Gordon, Ridwan Alam, James Hayes, Nutta Homdee, John Lach

POSTER 17  Cost Efficiency of Telemonitoring for Dementia Support
Clarissa Shaw, Kristine Williams, Carissa Coleman, Robert Lee
<table>
<thead>
<tr>
<th>POSTER 18</th>
<th>Maternal-Infant Stress Reactivity and Physiological Attunement in Prenatally Opioid-Exposed Newborns</th>
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<tbody>
<tr>
<td></td>
<td>Kelly McGlothen-Bell, Pamela Recto, Jaqueline McGrath, Elizabeth Brownell, Natasha Bibriescas, Danny Wang, Victoria Davila, Lisa Cleveland</td>
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<tr>
<th>POSTER 19</th>
<th>Predicting Infection in Premature Infants</th>
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<tr>
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<td>Robin Dail, Heidi Murphy, Kimberley Fisher, Andrea Trembath, Devon Kuehn, Victor Iskersky, James Hardin</td>
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<tr>
<th>POSTER 20</th>
<th>The Neural Recruitment of Executive Function in Monolingual versus Bilingual Preterm-Born Children: An fNIRS Study</th>
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<tr>
<td></td>
<td>Ashley Darcy-Mahoney, Caitlyn Myland, Ranu Jung, Anil Thota, Liliana Rincon-Gonzalez, Valentina Dargam, Victoria Leon, Melissa Baralt</td>
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<tr>
<th>POSTER 21</th>
<th>Naturalistic Assessment of Gait in a Smart Home Apartment</th>
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<td>Lorraine Phillips, Zachary Beattie, Hamzah Ahmed, Mary Bowen</td>
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<th>POSTER 22</th>
<th>Measuring Physical Activity in Hopeless Cardiac Patients</th>
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<td>Susan Dunn, Madison Buursma, Holli DeVon, Nathan Tintle</td>
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<th>POSTER 23</th>
<th>Sensor Belt Use: Heart Rates, Dementia and Vocalizations</th>
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<td>Justine Sefcik, Mary Ersek, Joseph Libonati, Sasha Hartnett, Nancy Hodgson, Pamela Cacchione</td>
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<th>POSTER 24</th>
<th>Telehealth: Increasing Access to Mental Health Services for Rural Childbearing Women</th>
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<td>Gwen Latendresse, ElLois Bailey, Ann Hutton, Kaitlyn Jones, Tessa Hamilton</td>
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<th>POSTER 25</th>
<th>Concept to Clinic: Sensor-Based Assessment in Oncology</th>
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<td>Grace Campbell, Heidi Donovan, Marjorie Skubic</td>
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<tr>
<th>POSTER 26</th>
<th>Fitness Tracker Prediction Model of Daily Asthma Control</th>
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<td>Jessica Castner</td>
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<th>POSTER 27</th>
<th>Home Environment Allergen Exposure Scale Development</th>
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<td>Jessica Castner, Barbara Polivka</td>
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<th>POSTER 28</th>
<th>Compatibility of Sensor Study Data Elements with ECHO</th>
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<tr>
<td></td>
<td>Mollie Cummins, Rima Habre, Julio Facelli, Katherine Sward, Ramkiran Gouripeddi, Flory Nkoy</td>
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</table>

The 2nd Annual Duck-Hee Kang Memorial Mentored Grant Writing Workshop, presented by the Early Career Special Interest Group, took place on Tuesday, October 22, 2019. The following participants were selected to present their grant proposals and receive feedback from senior scientists in a mock-NIH style grant review session.

Karen Alexander, PhD, RN - Thomas Jefferson University
Dalmacio Dennis Flores, PhD, ACRN - University of Pennsylvania
Ngozi D. Mbue, PhD, RN, ANP-C - Texas Woman’s University
Lisa K. Militello, PhD, MPH - The Ohio State University
Susan Storey, PhD - Indiana University
Weichao Yuwen, PhD - University of Washington

Thank you to the generous sponsors of this workshop!
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Global Korean Nurses Foundation

Thank you to the senior scientist participants!
Paule V. Joseph, PhD, MS, FNP-BC, CTN-B
Rita Pickler, PhD, RN, FAAN
Teresa Ward, PhD, RN, FAAN
# Poster Session Information

Each author has been assigned a specific 45-minute time frame to present and discuss their poster. An author of each poster will be available during the scheduled e-poster sessions:

## Poster Session II | 2:30PM – 3:15PM

<table>
<thead>
<tr>
<th>Poster</th>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Activity Sensor and Mobile App to Increase Teen Sleep: RCT</td>
<td>Robyn Stremler</td>
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<tr>
<td>2</td>
<td>Processing Accelerometer Data for Older Adults with COPD</td>
<td>Katelyn Webster, Ronald Dechert, Janet Larson</td>
</tr>
<tr>
<td>3</td>
<td>iCardia: A Physical Activity Research mHealth Platform</td>
<td>Susan Buchholz, JoEllen Wilbur, Michael Schoeny, Shannon Halloway, Spyros Kitsiou</td>
</tr>
<tr>
<td>4</td>
<td>Inertial Sensors and Mobility Disability in Older Adults</td>
<td>Hilaire Thompson, Ellen McGough, Kaitlyn Barr, George Demiris</td>
</tr>
<tr>
<td>5</td>
<td>Planned Naps can Improve Drowsiness at Work Among Nurses</td>
<td>Hyang Baek, Kihye Han, Heejeong Hwang</td>
</tr>
<tr>
<td>6</td>
<td>Evaluating Rural Disparities with Geoanalytics</td>
<td>Pam DeGuzman, Jessica Keim-Malpass, Genevieve Lyons, Snitzer Joseph</td>
</tr>
<tr>
<td>7</td>
<td>Intervention Lowers Preterm Infant Hospital Costs</td>
<td>Susan Vonderheid, Chang Park, Kristen Rankin, Kathleen Norr, Rosemary White-Traut</td>
</tr>
<tr>
<td>8</td>
<td>Environmental Experience of Infants in Cardiac Care</td>
<td>Laura Beth Kalvas, Tondi Harrison</td>
</tr>
<tr>
<td>9</td>
<td>A Study of Early Screening and Distance-Delivered Intervention for the Prevention and Treatment of Maternal Depression</td>
<td>Gwen Latendresse</td>
</tr>
<tr>
<td>10</td>
<td>Moderating Effects of Physical Activity Intervention</td>
<td>Lorraine Robbins, Jiying Ling, Fujun Wen</td>
</tr>
<tr>
<td>11</td>
<td>Diabetes Mobile Care: Developing the Digital Phenotype</td>
<td>Ryan Shaw</td>
</tr>
<tr>
<td>12</td>
<td>Food Security and Hair Cortisol in Low-Income Families</td>
<td>Jiying Ling, Lorraine Robbins, Dongjuan Xu</td>
</tr>
<tr>
<td>13</td>
<td>Feasibility of a Wearable Health Monitor to Measure Stress in Family Caregivers</td>
<td>Sherry Chesak, Cindy Tothagen</td>
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<tr>
<td>14</td>
<td>Visualizing Symptoms using Mobile Health Data</td>
<td>Jacqueline Vaughn, Nirmish Shah, Ryan Shaw</td>
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<tr>
<td>15</td>
<td>Pilot Study of Global Metabolomics and Symptom Severity in Women with Fibromyalgia and Age-Matched Controls</td>
<td>Victoria Menzies, Angela Starkweather, Yingwei Yao, Timothy J. Garrett, Debra Lynch Kelly, Param Patel, Debra E. Lyon</td>
</tr>
<tr>
<td>16</td>
<td>Enhancing Early Literacy &amp; Language Coaching with Nurse Family Partnership</td>
<td>Ashley Darcy-Mahoney, Miriam Faunda, Elizabeth Austin</td>
</tr>
<tr>
<td>17</td>
<td>A Monitored Walking Program for Glycemic Control and Symptom Management in Patients with Cancer</td>
<td>Marilyn Hammer, Patricia Eckardt, Christine Miaskowski</td>
</tr>
</tbody>
</table>

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**POSTER SESSION II**

Each author has been assigned a specific 45-minute time frame to present and discuss their poster. An author of each poster will be available during the scheduled e-poster sessions.
| POSTER 18 | Social Network Analysis: A Methodology for the Exploration of Connections and Relationships in Two Military Contexts  
Penny Pierce |
| POSTER 19 | Developing the Breastfeeding Diagnostic Device  
Ruth Lucas, Jimi Francis |
| POSTER 20 | An Integrated Review of Feeding Behaviors in Infants with Prenatal Opioid Exposure  
Lisa Cleveland, Kelly McGlothlen-Bell, Jaqueline McGrath |
| POSTER 21 | Using Sensors to Map Care Interactions: A Simulation Study  
Sijia Wei, Kayla Wright-Freeman, Eleanor McConnell, Kevin Caves, Leighanne Jarvis, Adrienne Hawkes, Sarah Moninger, Kirsten Corazzini |
| POSTER 22 | Speeko for Elderspeak: Communication Self-Monitoring  
Kristine Williams, Nicolas Aguilar, Anthony Pham, Carissa Coleman, Clarissa Shaw |
| POSTER 23 | Sexual Violence Among LGBTQ+ College Students  
Donna Scott Tilley, Ann Kolodetsky |
| POSTER 24 | Can Missed Care Items Signal Risk for Bad Patient Outcomes?  
AkkeNeel Talsma, Jan Lloren, Becky Pogacar |
| POSTER 25 | Machine Learning Analytics Using Activity Sensors  
Jessica Castner, Brett Cropp, John Coles |
| POSTER 26 | Utah PRISMS Center: Sensor-based, Data Intensive Science  
Mollie Cummins, Ramkiran Gouripeddi, Flory Nkoy, Julio Facelli, Katherine Sward |

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ENRS is a member-based organization dedicated to creating a community of nurses interested in promoting and supporting regional nursing research in the Eastern Region of the United States.

Midwest Nursing Research Society (MNRS)
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The Midwest Nursing Research Society has been improving the quality of nursing research for more than 40 years, with a mission to advance science, transform practice, and enhance careers through a network of scholars, to improve the health of all people.

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www.ninr.nih.gov
The National Institute of Nursing Research (NINR), a component of the National Institutes of Health, supports research and training to advance symptom science, promote wellness, support self-management of chronic conditions, enhance palliative and end-of-life care, and develop the next generation of nurse scientists.

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<td>The Ohio State University College of Nursing</td>
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**SILVER:**
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