University Global Partnership Network

ANNUAL CONFERENCE - APRIL 1-3, 2019
Welcome to NC State for the annual UGPN conference.

We welcome our visitors from Brazil, the United Kingdom, Australia, and Raleigh to NC State’s campus for the 2019 University Global Partnership Network conference. Through the upcoming research workshops, panel discussions, and networking events, we look forward to promoting academic exchange and new research collaboration among our university network.

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Collaborative Research Workshops

**Innovation and Entrepreneurship**

Education, practical training and technology commercialization  
*Lead by Dr. Jon Carr and Elizabeth Benefield*

**Data Science and Big Data**

Computing, analytics, finance, health and life sciences, and social networks  
*Lead by Dr. Alyson Wilson and John Streck*

**One Health and Global Health**

Addressing issues at the nexus of human health, animal health, and the environment  
*Lead by Dr. Siddhartha "Sid" Thakur and Dr. Cathrine Hoyo*

**Sustainable and Smart Cities**

Smart technology, innovation hubs, and university-regional synergy  
*Lead by Dr. Celen Pasalar*
Bus transportation to James B. Hunt Library leaves from hotel at 8:00 a.m.

8:30 - 9:00 a.m.
Coffee and Registration
James B. Hunt Library - Second Floor

9:00 - 10:15 a.m.
Plenary Session
James B. Hunt Library Duke Energy Room
Welcoming Remarks
UGPN: Past, Present, and Future (Executive Committee Chair)
Collaboration in Higher Education: Global Challenges and Opportunities
  - Dr. Warwick Arden, Executive Vice Chancellor and Provost
  - Prof. Raul Machado Neto, Provost for International Cooperation
  - Prof. Jennifer Martin, Deputy Vice Chancellor (Research and Innovation)
  - Prof. Vincent Emery, Senior Vice-President (Global)

COFFEE BREAK
James B. Hunt Library Duke Energy Room

10:45-11:45 a.m.
UGPN Forum on Strategic Research Collaboration
James B. Hunt Library Duke Energy Room
  - Dr. Mladen Vouk, Vice Chancellor for Research and Innovation
  - Prof. Sylvio Roberto Accioly Canuto, Provost for Research
  - Prof. Timothy Marchant, Dean of Research
  - Mr. Attila Emecz, Director, Strategic Research Relationships

LUNCH
University-Industry Partnerships Panel Session
James B. Hunt Library Duke Energy Room

2:00-4:30 p.m.
Introduction and Networking for Workshop Participants
Multiple locations
Distribution by conference theme
  - Innovation and Entrepreneurship - HQ Raleigh
  - Data Science and Big Data - Centennial Campus
  - One Health and Global Health - College of Veterinary Medicine
  - Sustainable and Smart Cities - Office of Sustainability
MONDAY, APRIL 1

2:00-4:30 p.m.  UGPN Executive Committee Meeting
James B. Hunt Library, Room 5100A
Prof. Raul Machado Neto, Chair

Bus transportation provided back to hotel at 4:30 p.m. Bus will pick-up for dinner at 6:15 p.m.

DINNER
Hosted by Executive Vice Chancellor and Provost Warwick Arden
The Terrace Room at Lonnie Pool Clubhouse

Bus transportation provided after dinner to hotel.

TUESDAY, APRIL 2

Bus transportation to James B. Hunt Library leaves from hotel at 8:30 a.m.

9:00-11:45 a.m.  Concurrent Workshops
James B. Hunt Library
Rooms 4101, 4103, 4105, 4106, and 4107

LUNCH
Women in STEM Panel Discussion
Convocation Room 2225, Wilson College of Textiles

2:00-5:00 p.m.  Concurrent Workshops
James B. Hunt Library
Rooms 4101, 4103, 4105, 4106, 4107, and Faculty Commons

Bus transportation provided back to hotel at 5:00 p.m.
9:30-11:30 a.m.

Concluding Session
James B. Hunt Library Duke Energy Room

LUNCH
James B. Hunt Library Duke Energy Room

Bus transportation to James B. Hunt Library leaves from hotel at 9:00 a.m.

Bus transportation provided back to hotel at 1:30 p.m.

2:00-3:30 p.m.

UGPN Administrative Services Group Meeting
James B. Hunt Library

Optional:
Individual meetings, discussions, and/or campus visits by UGPN participants

6:00-8:00 p.m.

Lulu eGames
Stewart Theatre, Talley Student Union
All year, NC State entrepreneurs have been developing their ventures for a chance to win $100,000 in cash prizes. Hear pitches from winning teams and vote for your favorite to receive the audience choice awards.
Meet the Panelists

University-Industry Partnerships

**Dennis Kekas**

As Associate Vice Chancellor at North Carolina State University, Dennis is responsible for Centennial Campus Partnerships and Economic Development. He also directs the College of Engineering’s Institute for Next Generation IT Systems. Previously in 2015, he led the launch of NC State’s “Power America” National Manufacturing Innovation Institute focused on advanced power electronics. As a former IBM career executive, he led development of the first NYSE floor trading system as well as disruptive products associated with point-of-sale, bar code scanners, keyboards and networking infrastructure. His BSEE is from Clemson with graduate studies at Syracuse, NC State and UCLA. A registered Engineer in New York and North Carolina he holds 8 Patents with numerous awards for inventions, technical achievements and management excellence. As past president of the Clemson Alumni Association he received Clemson’s Distinguished Service Award in 1999, and received the 2016 Association of University Research Parks Leadership Award. In 2008 he co-founded ImagineOptix Corporation to commercialize NC State optical technologies and is board chair. He also serves on the boards for the Clemson University Research Foundation (CURF) and the North Carolina Rare Disease Innovations Institute. He and his wife Joyce reside in Raleigh, NC

**Barclay Satterfield**

Barclay Satterfield is the external innovation site leader for Eastman Chemical Company. She manages an office on the NC State University Centennial Campus that supports the execution of multi-year research partnerships with NC State, UNC, and the University of Tennessee. In this role, Barclay and her team members connect industry and university researchers to drive collaborative engagement. Prior to joining Eastman in 2013, Barclay performed life cycle assessment studies as a consultant and was a Science Policy Fellow in the American Chemical Society’s Office of Public Affairs. Barclay earned her Ph.D. in Chemical Engineering from Princeton University and her B.S. in Chemical Engineering from Yale University.
Meet the Panelists

Women in STEM

Dr. Veronica Catete

Veronica is a Research Scientist in the Department of Computer Science at NC State University, where she received her B.S. and Ph.D. degrees, also in Computer Science. She received her Masters from UNC Charlotte with a concentration in mobile game development. Veronica’s overall goal has been on improving K-12 education through computing. Her early work evaluated ways to determine affect in intelligent game-based learning environments, then moved on to developing platforms for social game-based learning (both programming and human networking skills). Currently, Veronica researches teacher training and curriculum development for computing education. Her dissertation work focused on developing support mechanisms for novice computing teachers assessing high school programming labs, which was recognized with back-to-back Best Paper awards at the international conference on Innovation and Technology in Computer Science Education. Since then, Veronica has been working to incorporate computing and computational thinking into core classes, looking into a faded scaffolding approach to both teacher professional development and student activities. In addition to her academic research path, Veronica has led computer science outreach to middle school students since January 2009. Through outreach, she’s piloted ideas and developed new insights for computing education research. Her outreach efforts have grown from one local middle school to over 1000 students across North Carolina. Internationally, Veronica is member of NCSU’s Global Engagement Institute, where she works with Mothering Across Continents to assess hands on computational thinking and engineering design cycles with rural secondary schools in Rwanda developing teacher PD and local sustainability teams.

Professor Sharon Robinson

Sharon Robinson researches how Antarctic plants respond to climate change. She uses radiocarbon signatures, left behind in the atmosphere by nuclear testing, to date mosses and track environmental change around the coast of Antarctica. Her group identifies the sunscreens plants make to protect themselves from elevated UV-B radiation due to ozone depletion. She is also applying new technologies, including the use of drones in Antarctica, to monitor plant health and productivity, and developing novel sensors that will help to track crop and forest health in future.
Meet the Panelists

Women in STEM

Barbara Mulkey

Barbara graduated from NC State magna cum laude in Engineering in 1977, and then completed a Master’s Degree in Structural Engineering at NC State in 1984. Entrepreneurial by nature, Barbara founded Mulkey Engineers & Consultants, Inc. in 1993, an engineering consulting firm specializing in engineering and related services for both the public and private sectors. Begun at her kitchen table, the company made the list of Top 500 Engineering Companies nationally multiple times while under her leadership. With a career foundation as a structural engineer focusing on highway bridge design, Barbara naturally placed a strong emphasis on her firm’s transportation planning, design and construction services. Today she is heralded as one of the most respected transportation experts in the state, as evidenced by her induction into the NC Transportation Hall of Fame. Giving back to her profession, Barbara served as President of The American Council of Engineering Companies for the state organization as well as National Director. She was later named a Fellow by the American Society of Civil Engineers (FASCE). Barbara serves her community as a member of the Research Triangle Board of Directors, and Chairs the Triangle Universities Center for Advanced Studies Board. Among other community recognitions, Barbara was named the TBJ Legacy Leader, and she was also admitted into the Leadership Raleigh Hall of Fame. At NC State, Barbara served for eight years on the Board of Trustees, including two years as Chair. She has received the Distinguished Alumnus Award by the College of Engineering, in 2016 she was awarded the Watauga Medal, and this past year was one of the inaugural inductees into the Civil, Construction & Environmental Engineering Hall of Fame. Spending time with family is Barbara’s favorite pastime, and she enjoys activities with her husband Jim, their children and their grandchildren. Barbara is a prolific reader and also enjoys playing the piano, playing racquetball, and kayaking at Topsail Beach. She is an active member of Hope Community Church in Cary, NC. Since 2016, Barbara has been the Director of the General Hugh Shelton Leadership Center at NC State University. The Center’s programs focus on building the next generation of values-based leaders at the university, as well as in corporate, government and youth organizations across the state.

Dr. Katherine Titus-Becker

Dr. Katherine Titus-Becker is currently the Director of the Women in Science & Engineering and the Director of Scholarships for the College of Sciences at NC State University. She is originally from Raleigh, North Carolina and received her Ph.D. in Educational Policy and Leadership from The Ohio State University. Her dissertation examined women fundraisers in higher education and the intersection of gender. She recently taught a doctoral level class on narrative inquiry in qualitative research. She has been an administrator in higher education for over 25 years and has worked at eight colleges and universities in North Carolina, Florida, Ohio, Virginia, and Indiana. She and her spouse have two sons, ages 16 and 8.
NC State will be providing bus transportation from the DoubleTree to conference locations on Centennial Campus and for various workshop locations around campus. Please check the conference program for specific bus pick-up times for each day and check with your workshop leads for individual workshop transportation.

DoubleTree by Hilton Raleigh Brownstone

- Ideally located just steps from NC State University, the Cameron Village shopping and restaurant mall and the newly renovated Pullen Park
- Breakfast and wi-fi included
- Less than 2 miles from the city center
- Walking distance to more than 100+ shops and 50+ restaurants

James B. Hunt Jr. Library

- This is the “library of the future,” known for its innovative use of technology, its ability to create inspiring learning and research spaces, the strengths of its collections, and its role in developing the next generations of librarians, scholars, and innovators.
- Named the nation’s top research park in 2007, NC State’s Centennial Campus is a nexus of collaboration among students, faculty, researchers, and corporate, governmental, and institutional partners.

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North Carolina State University, founded in 1887, is a land-grant institution committed to playing an active and vital role in the lives of North Carolinians, the United States and the world. An award-winning university known for its leadership in education and research, it is the largest four-year institution in North Carolina, collectively offering more than 300 undergraduate and graduate degree programs. In 1987, the university celebrated its 100th anniversary with the creation of Centennial Campus which now houses the College of Engineering, Wilson College of Textiles, Lonnie Poole Golf Course, and the Hunt Library as well as a number of corporate, government, and not-for-profit organization partners.

Connecting to the Wireless Network

Eduroam (wifi.ncsu.edu/eduroam/)
- NC State is one of the thousand educational and research institutions around the world who participates in the secure, world-wide roaming access service. If your devices are already enrolled in eduroam then you should be able to connect to the campus wireless network.

NCSU-Guest Network
- Available to all visitors, ncsu-guest is an unsecured wireless service.
  To log in, change your SSID to ncsu-guest, open a web browser to Guest Wireless Access, and click on the I Agree button.

For more information about connecting to the wireless networks on campus, please go to wifi.ncsu.edu.

Getting Around Campus

- NC State Wolfline Bus System - A fare-free bus service that is open to the public.
  www2.acs.ncsu.edu/trans/wolfline/index.html
- Lime @ NC State - dockless public bike share and electric scooter program
- Uber and Lyft
- Capital Greenway System - If you like to walk the Capital Area Greenway Trail System is a network of public open spaces connected by trails throughout Raleigh. Download the free app, RGreenway App, for an interactive map of the trails using Open Raleigh GIS Data.
- Campus Accessibility Spaces - For a map of accessible spaces download the following map, http://www2.acs.ncsu.edu/trans/maps/map-accessibility.pdf

Double-Tree to Hunt Library by Wolfline Bus

- The closest Wolfline bus stop is a five minute walk from the Double-Tree.
- Hillsborough St at Enterprise St stop take Wolfline Rte. 1 (Avent Ferry), Rte. 8 (Southeast Loop), or Rte. 9 (Gorman Street)
- Change to Rte. 4 (Centennial Campus) at Morrill Drive at Carmichael Gym
- Get off at Hunt Library at Partners Way
Exploring Raleigh

The capital city of North Carolina, Raleigh is consistently rated among the best places to live and work in the United States. Where the arts, food, music, politics, science and technology converge creating a Southern metropolis of interdisciplinary innovation. It is home to the North Carolina Museum of Art which first opened in 1929 and in 1947 appropriated $1 million to purchase a collection of art for the people, a first of any public museum in the United States. The NHL team, Carolina Hurricanes, who won the 2005-2006 season Stanley Cup calls Raleigh home. It is also the home for James Beard Award-winning chef Ashley Christensen who has opened multiple restaurants in downtown Raleigh, including local favorite Pooles Diner. Learn more at www.visitraleigh.com.

EXPERIENCE RALEIGH

EAT

- Brewery Bhavana - a brewery, bookstore, flower shop and dim sum restaurant was listed among Forbes “The 10 Coolest Places to Eat in 2018”
- Crawford and Son - headed by five-time James Beard Award-nominee Scott Crawford
- Beasley’s Chicken + Honey - Food & Wine Magazine declared the chicken and waffles one of the best chicken dishes in the country
- Morgan Street Food Hall - a unique dining experience from a wide variety of local chefs, restaurateurs and purveyors
- La Farm Bakery - the authentic French bakery from Master Baker Lionel Vatinet

SEE + DO

- North Carolina Museum of Art - one of the premier visual arts museums in the South
- William B. Umstead State Park - stroll nature trails or walk along 22 miles of hiking trails meandering through forest
- CAM Raleigh - sparks new thinking by creating ever-changing experiences that explore what’s now and nearing in art and design
- North Carolina State Capitol - completed in 1840, this National Historic Landmark is one of the best-preserved examples of a civic building in Greek Revival-style architecture.
- Gregg Museum - close to the conference hotel; free collecting and exhibiting museum with more than 35,000 objects in the permanent collection
- City Market - experience historic City Market, home to art galleries, restaurants and specialty shops. The original cobblestone streets are lit by lamps and filled with 19th-century charm.
- North Carolina Museum of History - located in downtown Raleigh, showcases more than 14,000 years and 150,000 artifacts of N.C. history
- Warehouse District - district characterized by old warehouses, historic brick buildings, and nightclubs; experience the legendary barbecue at The Pit
- Pullen Park - Established in 1887 and designated as the first public park in N.C., Pullen Park in Raleigh is the fifth oldest amusement park in the U.S. and the 16th oldest in the world
**Professor Raul Machado Neto**

Professor Raul Machado Neto is a Full Professor of Animal Science at Universidade de São Paulo. Higher educational training includes BS in Agricultural Science (1973), MSc in Animal Science (1977), both at Escola Superior de Agricultura Luiz de Queiroz, the College of Agriculture of Universidade de São Paulo, USP/ESALQ, Piracicaba, São Paulo, Brasil, PhD in Animal Physiology, University of Illinois at Urbana Campaign, USA, in 1980, and Postdoctoral Fellow at Agricultural and Food Research Council-AFRC, Institute for Animal Health, England, (1989-1990). His teaching and research activities are related to animal physiology with focus on passive immunity in domestic animals. He received in 2001 the Scientific Merit Medal of State of São Paulo Governor, and has delivered numerous lectures and published seventy papers in scientific journals.

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**Professor Sylvio Canuto**

Prof. Canuto obtained his PhD in the Uppsala University (Sweden) in 1979, is a Professor of Physics at the University of São Paulo and presently the Provost of Research at USP. He is a member of the Brazilian Academy of Sciences and The World Academy of Sciences. Has recently received the Order of Scientific Merit, the most prestigious national scientific achievement. His research interest lies in molecular dynamics and application of many-body physics to molecular systems. As a provost he is interested in all aspects of science with recent emphasis on Artificial Intelligence.
Conference Attendees

Daniel Barcelos

Daniel Barcelos has been working at USP International Cooperation Office since 2012. He is responsible for assisting the Provost for International Cooperation in managing the activities within USP’s strategies for internationalization, which include the university’s participation in various academic networks and consortiums, and the establishment of bilateral agreements and strategic partnerships with higher education institutions around the world.

Professor Andre Carvalho

André C. P. L. F. de Carvalho is Full Professor in the department of Computer Sciences, University of São Paulo, Brazil. He was Associate Professor in the University of Guelph, Canada. He was visiting researcher in the University of Porto, Portugal and visiting professor in the University of Kent, UK. He is Assessor ad hoc for several national and international funding Agencies. His main research interests are data science, data mining and machine learning. Prof. de Carvalho has several publications in these areas, including 10 paper awards from conferences organized by ACM, IEEE. He was the founding director of the Center of Machine Learning in Data Analysis, University of São Paulo and is currently Vice Dean of the Mathematics and Computer Science Institute of the University of São Paulo and Vice Director of the Center for Mathematical Sciences Applied to Industry, University of São Paulo. He is a member of the Steering Committee of the International Network for Government Science Advice (INGSA) Latin American and Caribbean Chapter, of the CNPq Computer Science Advisory Committee and of the Brazilian Science for Education Network. Once a month he writes about Artificial Intelligence for the Science & Mathematics Blog, maintained by IMPA and OGlobo newspaper.
Conference Attendees

**Professor Moacir Oliveira Jr.**

Full Professor and Head of the Business Administration Department at USP - University of São Paulo. He worked as a Visiting Scholar at the University of Cambridge - Judge Business School (1997-1998) and as a visiting professor in universities at EUA, EU and Latin America. Current positions include: Chief Editor of IMR – Innovation & Management Review (Emerald); founding member of the Academy of International Business - Latin America Chapter; Member of the Steering Committee at Emerging Markets Institute – Cornell University; Director for Latin America of GLORAD – Global R&D and Innovation Research Network. His research interests are related to Startups and Innovation Ecosystems in Brazil and also in Strategy and Innovation in Latin American Corporations. As a consultant in the field of strategy, innovation and international business, he has been working for major Brazilian companies and for the government.

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**Dr. Roberta C. Kronka Mulfarth**

Dr. Roberta C. Kronka Mulfarth is the Associate Professor at the Faculty of Architecture and Urbanism of the University of São Paulo FAUUSP, vice-president of CCEU FAUUSP - Committee on Culture and Extension and special collaborator with AUCANI in the coordination of University Networks WC2 - World Cities World Class University Network and UGPN - University Global Partnership Network. She is a member of the Research Support Center (NAP) - USP CIDADES. She holds a degree in Architecture and Urbanism from FAUUSP, a Master’s degree in Energy from the Post-Graduation Interunit Program at USP and a PhD in Urban Environmental Structures from FAUUSP. She has been participating in the WC2 Summer Symposium since its first edition in London in the year 2014. She is the coordinator in Brazil of the international agreement FAUUSP / Nottingham University, in addition to participating in other international agreements of FAUUSP with the University of Westminster and University of Portsmouth. She has experience in the area of Architecture and Urbanism Technology, in the sub-area of Environmental Comfort, working mainly on the following topics: ecocampus, sustainability, environmental impact and performance. Currently, she is currently working on two research projects: NCSU - North Carolina State University Bringing environmental quality and new life to city centers of emerging economies in a changing climate - The case of São Paulo (2018/2019) and the second, entitled "Built Environment, Physical Activity and Nutritional Status in Adults: A Longitudinal Study" (2019/2022) - FAPESP Thematic Project. She is co-author of the book “Towards Green Campus Operations - Energy, Climate & Sustainable Development Initiatives at Universities”; (Springer International Publishing, 2018).
Conference Attendees

**Professor Antonio Marques**

Antonio Marques holds a BSc in Biology, MSc and PhD in Zoology from the University of São Paulo (USP), and post-doctoral stays at the Naturalis (Leiden, The Netherlands) and at the Universidad de València (Spain). He is presently Full Professor of the Institute of Biosciences of the USP, Research Associate of the National Museum of Natural History (Smithsonian Institution, Washington D.C.) and Co-Chair of Science and Strategy of the Ocean Biogeographic Information System (OBIS, Unesco-IODE), among other positions. He is also President of the Innovation Agency of the University of São Paulo (AUSPIN), and was the former Director of the Center for Marine Biology (USP). He authored over 200 publications (papers and book chapters) in marine evolution, conservation, public policies, ecology, biogeography, paleontology, etc. His research focus on marine biodiversity and conservation, investigating patterns and processes of origination and extinction of the marine biota in broad spatial (local to world) and temporal (fossil to extant species) scales, and integrating these data with marine policies seeking to promote well-being and the sustainable use of marine natural resources. The present academic and managing responsibilities encompass managing the intellectual property generated at USP and its licensing/transference to the society, foster innovation and entrepreneurship formation among USP’s faculties and students, and supervise the management of the four incubators of the University of São Paulo, among other tasks.

**Dr. Ranny Michalski**

Dr. Ranny Michalski is an assistant professor at the Technology Department of Faculty of Architecture and Urbanism of the University of São Paulo (FAUUSP) and a researcher at LABAUT (Laboratory of Environmental Comfort and Energy Efficiency) since 2016. Principal investigator in the UGPN Collaborative Research Program, between University of São Paulo (USP) and North Carolina State University (NCSU), called: “Bringing environmental quality and new life to city centers of emerging economies in a changing climate – The case of São Paulo”. Acoustician, member of the supervisory board and regional coordinator of the Brazilian Society of Acoustics (SOBRAC), she participates in the elaboration of Brazilian technical standards, through the Brazilian Association of Technical Standards (ABNT). Vice-coordinator in Brazil of the international agreement between FAUUSP and the University of Portsmouth, besides participating in other international agreements with the Universities of Westminster and Nottingham. Mechanical Engineer from the Federal University of Rio de Janeiro (2003), Master and PhD in Mechanical Engineering from COPPE-UFRJ (2005 and 2011).
Dr. Moacir Ponti

Moacir Antonelli Ponti received his PhD (2008) and MSc (2004) degrees at the Universidade Federal de São Carlos, Brazil. He is currently Associate Professor at the Institute of Mathematical and Computer Sciences, Universidade de São Paulo, Brazil. During 2016 he was visiting researcher at the Centre for Vision, Speech and Signal Processing (CVSSP), University of Surrey, UK. He was principal investigator of projects funded by Brazilian research agencies CNPq and FAPESP as well as international collaboration network (UGPN). Additionally, he got a Latin America Research Award from Google in 2017 and a CNPq Researcher Fellowship Grant in 2018. Authored the book Machine Learning: a practical approach on the statistical learning theory, Springer, and published more than 40 papers in peer reviewed journals and conferences, his current research interests include machine learning; deep learning; signal, image and video processing.

Professor Victor Wünsch-Filho

Victor Wünsch-Filho is Professor at the University of São Paulo, School of Public Health, Department of Epidemiology, where he is involved in undergraduate and graduate education. He is graduated in Medicine, Master in Preventive Medicine and PhD in Public Health. His main research areas include cancer epidemiology and occupational health. He has experience in conducting multicenter projects on the etiology and prognosis of cancer, particularly tumors of the head and neck, lung, and childhood leukemia, including the study of environmental, occupational, behavioral and social, biological and genetic risk factors. These projects are part of international consortia: INHANCE (International Head and Neck Cancer Epidemiology Consortium) and CLIC (Childhood Leukemia International Consortium). The most frequent terms in his scientific production are related to cancer, occupational cancer, case-control studies, public health, epidemiology and occupational health. He was the head of the Department of Epidemiology from 2010 to 2014 and was Director of the School of Public Health of the University of São Paulo from 2014 to 2018.
University of Surrey

**Professor Vincent Emery**

Vince Emery is Senior Vice-President (Global) and Professor of Translational Virology at the University of Surrey. Professor Emery leads the University of Surrey’s global strategy seeking to catalyse and expand international research networks, student and staff recruitment and mobility, to foster teaching collaborations, and to realise transnational educational opportunities. Before joining the University of Surrey in 2012, Professor Emery was Pro-Provost for Africa and the Middle East, Vice-Head of the Graduate School and Professor of Virology at UCL where he still holds an Honorary Professorship. Vince started his scientific career as a biochemist but has been a virologist for the last 32 years. His current research aims to provide an interdisciplinary approach to understanding viral infections in immunocompromised hosts such as HIV-infected patients and transplant recipients.

**Dr. Zeineb Cox**

Zeineb Cox is a Teaching Fellow in Entrepreneurship and Management at the Surrey Business School (SBS), University of Surrey. Currently the Lead for Ethics, Responsibility and Sustainability (ERS PRME) and Co-Director of SBS Summer School. In June 2018, awarded the First Innovation Prize at the European conference on Teaching Research Methods (ECRM) ‘An Integrative approach to teaching research methodology to large groups’.

**Dr. Bernadette Egan**

Dr Bernadette Egan is a Senior Research Fellow in the Food, Consumer Behaviour and Health Research Centre at the University of Surrey and is the Deputy Director for the National Institute for Health Research (NIHR) Research Design Service South East (RDSSE). Bernadette’s research interests are primarily public health related (food choice, behavioural nutrition, and nutrition in the early years). Bernadette has over 15 years’ experience of working on projects in the domain of food-related consumer behaviour, funded primarily by the UK Food Standards Agency and the European Commission. Project topics have included parents and teachers understanding of the effect of diet on children’s mental performance, consumer behaviour relating to plant food supplements, consumer understanding of health-related claims and symbols and the information preferences of those with food allergies and/or intolerances when eating out. Bernadette has expertise in a range of research methods, including quantitative, qualitative and mixed-methods and extensive experience of project management.
Atilla Emecz

Atilla Emecz (Atti) is the Director of Research Strategy for the University of Surrey. He joined the University as Director of Strategic Partnerships in October 2014, and has also served as Acting Vice-Provost, Research and Innovation. Atti is responsible for shaping and developing research strategy across all the University’s Faculties, a strategy that has resulted in an increase in research income of over 20% and the establishment of major new capabilities, for example, in Quantum Biology, the Internet of Things and Distributed Ledger Technologies. During this time, Atti was also Executive Secretary of the ERA Foundation, a charitable organisation supporting excellence in the electro-technology sector, encouraging young people’s interest in engineering and promoting the importance and value of UK manufacturing. His achievements here include a series in inspirational “Born to Engineer videos” and reports and opinion pieces promoting manufacturing with Civitas and the New Statesman. Prior to joining Surrey, Atti worked for the Engineering and Physical Sciences Research Council (EPSRC). His roles included: Head of Information Systems; Director for programme operations, strategy, information and communication and Director for Strategy and Business Relations. Atti led EPSRC’s contribution to the two Spending Review cycles, and developed the advocacy strategy that was instrumental in securing an additional £600M for UK research between 2010 and 2014. Atti is also a Vice President of the Parliamentary and Scientific Committee, the All Party Parliamentary Group seeking to promote science and research to members of both the UK parliament House of Commons and the House of Lords.

Dr. Masoud Fakhimi

Dr. Masoud Fakhimi is an Assistant Professor of Management Information Systems and the program director for Business Analytics MSc at Surrey Business School, University of Surrey. He holds a BSc in Industrial Engineering, an MSc in Management, and a PhD in Computer Modelling & Simulation. His research interests include application of M&S techniques for sustainability analysis, healthcare simulation, sustainable operations management and green supply chain analytics.

Dr. Monica Felipe-Sotelo

Since I graduated with a PhD from the University of A Coruña (NW-Spain), my professional career has been devoted to the development of analytical procedures for the accurate and precise determination of the elemental composition of environmental samples and, the assessment of the fate of toxic elements in the environment. I have had the opportunity to work in higher education institutions in Spain and UK, occupying both research and academic positions. During the progress of my career I have benefit from multidisciplinary collaboration in diverse scientific areas, including statistics, computer modelling, radiochemistry and geochemistry, which has encourage me in my progression as independent researcher and team leader to pursue comprehensive answers to environmental and human welfare issues. At present, I work as lecturer in Radiochemistry and Analytical Chemistry and the University of Surrey.
Conference Attendees

Professor Yang Gao

Professor Yang Gao FIET FRAeS, is the Associate Dean (International) for Faculty of Engineering and Physical Sciences (FEPS) and the Professor of Space Autonomous Systems at Surrey Space Centre (SSC). She is also the Director of UKRI/UKSA National Hub on Future AI & Robotics for Space (FAIR-SPACE) and Head of the SSC-STAR Lab which specializes in robotic sensing, perception, visual GNC and biomimetic mechanisms for industrial applications in the extreme environments. She brings nearly 20 years of research experience in developing robotics and autonomous systems (RAS), in which she has been Principle Investigator of internationally teamed projects funded by UK Research Councils (EPSRC/STFC), InnovateUK, Royal Academy of Engineering, European Commission, European Space Agency, UK Space Agency, as well as industrial companies such as Airbus D&S, Neptec, Sellafield, and OHB. Yang is also actively involved in design and development of real-world space missions like ESA's ExoMars, Proba3 and LUCE-ice mapper, UK’s MoonLITE/Moonraker, and China’s Chang’E3, etc. In recent years, Yang’s work has also been applied to several non-space sectors including nuclear and agriculture.

Jon Gunn

Jon Gunn is the Corporate Marketing Manager in the Corporate Marketing & Communications Team at the University of Surrey. His work involves the development and management of the university brand and also the global marketing and communications opportunities working closely with the Global Engagement Office. Jon and his colleagues in the UGPN partnership newly formed marketing and communications workstream are looking at the brand and website at this important time for the partnership.

Dr. Donya Hajializadeh

Dr Donya Hajializadeh, is a chartered civil engineer and assistant professor in the Department of Civil and Environmental Engineering, University of Surrey. Following the completion of her PhD research, she has spent nearly three years in the industry as a Research Engineer at Roughan & O’Donovan Innovative Solutions (ROD-IS). Donya’s research is primarily focused on the areas of Structural Health Monitoring (SHM) and resilience-based decision making support system in infrastructure networks. Her research resulted in the development of several technical software such as SHM system and fatigue damage accumulation for steel bridges as well as a traffic simulation software. She has also developed a Bayesian-based risk assessment framework for infrastructure networks. She has led and co-led various projects on infrastructure network resilience such as RV-DSS Project funded by the NERC.
Conference Attendees

Louise Lawton
Facilitating international collaborations, including collaborative programmes, mobility and research interactions, with a particular interest in Latin America. Secretary to the University Global Partnership Network.

Professor Johnjoe McFadden
Johnjoe McFadden is Professor of Molecular Genetics at the University of Surrey, Associate Dean International for the Faculty and Director of the Quantum Biology Doctoral Training Centre and recipient of the Royal Society Wolfson Research Merit Award in 2014. His principal research area is investigating genetics of microbes that cause infectious diseases. He has published more than 150 articles in scientific journals on subjects as wide-ranging as bacterial genetics, tuberculosis, idiopathic diseases, systems biology of infection, bionanotechnology and computer modelling of evolution. He is also a popular science writer and wrote the book “Quantum Evolution” in 2000, co-edited ‘Human Nature: Fact and Fiction’ in 2006; and is co-author, with Jim Al-Khalili, of the book, “Life on the Edge: The Coming Age of Quantum Biology published in 2014 and describing recent advances in Quantum Biology. The book is published in 20 countries and was on the NYT best-seller list. He was recently successful in obtaining a £1m grant from the Leverhulme Trust to set up a Doctoral Training Centre for Quantum Biology at the University of Surrey which opened in October 2018.

Nadine Page
Nadine is an experienced Mental Health Nurse and Independent Nurse Prescriber in the specialist field of addictions. Nadine works at the University of Surrey as a Lecturer, teaching across academic levels on both professional preparation and post registration programmes, championing the integration of mental health learning. Nadine has a passion for mind-body medicine that facilitates life-long changes to health, with a particular focus on the perinatal period. She is committed to helping people achieve optimum well-being and is drawn to natural therapies in a pursuit to find effective treatment methods without unwanted side effects. Nadine believes that nutrition is especially vital to prevent disease of the mind, since the brain is built from the very nutrients often found to be devoid in people’s diets. Nadine is a PhD student in Nutrition also at the University of Surrey. She has designed a project that uniquely brings together her areas of expertise and interests. The overall project aim is to test the hypothesis that low zinc status is associated with depressive symptoms in pregnant and post-natal women. You can follow Nadine Page on twitter @NadineatTheWell.
**Dr. Jaoquin Prada**

Dr. Jaoquin Prada is lecturer at the University of Surrey and a mathematical modeller interested in host-parasite interactions and dynamic systems of human and animal infectious diseases. Prada supports the Neglected Tropical Diseases modelling consortium, working on a wide array of diseases to assess the 2020 goals of control and elimination as a public health problem. Prada has experience in fitting models to data, and simulating diagnostics and assessing control interventions. Prada is particularly interested in the topic of One Health and in Machine Learning methods.

**Professor Paul Smith**

Paul is an engineer by background, holding a first Degree in Engineering from the University of Cambridge, where he subsequently carried out doctoral research on the mechanical fastening of carbon fibre reinforced composites. Joining the University of Surrey in 1986, Paul started as a lecturer in the Department of Materials Science and Engineering. He has held a wide range of posts including that of Head of School of Engineering and as Associate Dean (International). His current role is the Executive Dean of the Faculty of Engineering and Physical Sciences. In research his early interests on mechanical behaviour of composite materials have broadened to encompass a wider range of materials and in particular cast iron assets in the water industry. He is an author on more than 250 journal and conference papers and has presented at numerous international meetings.

**Dr. Guohong Tian**

Dr Guohong Tian is currently a Senior Lecturer at the Department of Mechanical Engineering Sciences, University of Surrey in England. His main research area including novel engine technologies such as free piston engines and rotary engines, alternative fuels including bio fuels or pyrolysis fuels, waste heat recovery from engines, and emission control technologies.
Dr. Arnoud van Vliet

Dr Arnoud van Vliet is a senior lecturer in microbiology. After gaining his PhD in 1995, he has worked on biology and virulence of Campylobacter and Helicobacter species, and was head of the Campylobacter research at the BBSRC-funded Institute of Food Research in Norwich, UK from 2007-2016. He moved to the School of Veterinary Medicine of the University of Surrey in 2016, focusing on research in microbial and parasite genomics, as well as molecular microbiology of veterinary and foodborne pathogens such as avian pathogenic E. coli, Listeria and Campylobacter, and the development of molecular tests for AMR and relevant veterinary pathogens. He has led and contributed to a number of commercial, BBSRC, FSA, InnovateUK and MRC projects, and has over 100 peer reviewed publications in the area of molecular microbiology, foodborne pathogens and microbial genomics.

Tom Windle

Tom Windle is responsible for delivery of the University of Surrey’s Global Strategy, with a focus on the development of international partnerships. Tom also leads the University Global Partnership Network (UGPN) Secretariat, with responsibility for coordination of UGPN activities including the annual Research Collaboration Fund (RCF). Tom has worked in International and Higher Education for over 15 years with a focus on international partnerships, prior roles including:

• Senior Partnerships Manager at University College London (UCL)
• Senior Partnerships Manager at Royal Holloway, University of London
• Programme Development Manager (TNE) at Royal Holloway, University of London
• Academic Manager at BEO in Tokyo, Japan
Dr. Jennifer Martin

Prof Jennifer Martin is an internationally renowned protein crystallographer and structural biologist. She has made seminal discoveries in bacterial redox biochemistry, including revealing how the DsbA enzyme assembles bacterial ‘weapons’, and has validated DsbA as a target for novel antibacterials that are now being developed. Through her role as a founding member of the Science and Gender Equity (SAGE) Steering Committee, Prof Martin helped implement the Athena SWAN pilot to address gender equity in science. Prof Martin is a strong public advocate for science with an inspirational and highly effective science communication record. In recognition of these accomplishments and honours Professor Martin was made a Companion of the Order of Australia in 2018 “eminent service to scientific research, particularly in the field of biochemistry and protein crystallography applied to drug-resistant bacteria, as a role model, and as an advocate for gender equality in science”.

Dr. Shahriar Akter

Dr Shahriar Akter is an Associate Professor of Digital Marketing, Analytics & Innovation at the Sydney Business School, University of Wollongong. He was awarded his PhD from the University of New South Wales (UNSW) Business School Australia, with a doctoral fellowship in research methods from the University of Oxford. He has published in leading business & management journals with a Google Scholar h-Index of 21 and more than 2500 citations since 2014. He was also the Guest Editor of the Journal of Organizational and End User Computing, International Journal of Operations and Production Management, Electronic Markets for their special issues on big data and social media analytics during 2014-17. He received the UOW Vice Chancellor’s award for teaching, the nomination for excellent research supervision and several prestigious awards for research. He won various internal and external grants including more than $100K grant in 2017 for big data projects and $153K from the Australian government in 2018 for innovation-related projects. He was awarded “Paper of the Year Award” in 2018 by Electronic Markets Journal for his research on big data analytics. Dr Akter’s research on big data analytics and digital economy have been featured in various media outlets in Australia including ABC and the Mercury.
Professor Hoa Dam

Hoa Dam is Associate Professor in Software Engineering at the School of Computing and Information Technology, University of Wollongong, Australia. His main interest is in the area of Artificial Intelligence (AI) for Software Engineering. His research aims to develop and deploy AI applications which help project managers, software developers and other stakeholders to improve software quality, accelerate productivity, and increase project success rates.

Dr. Hugh Forehead

Hugh is a researcher at UOW’s SMART Infrastructure Facility, involved in urban environment-focused research projects for the Digital Living Lab, social media in responses to disasters and street-level traffic emissions. His background is in agent based modelling, spatial data analysis, marine ecology, health and web mapping. The SMART Fire Hydrants map received the 2017 Service Innovation Award (IoT category) of the Service Science Society of Australia. The map shows firefighters the locations of fire hydrants that can otherwise be difficult to find, so improves their response times to fire calls. Other areas of interest include quantitative ecology and theoretical evolution.

Dr. Tillman Boehme

Dr Tillmann Böhme (MBA) is a creative, collaborative and innovative minded person; start-up entrepreneur, senior lecturer, and an expert business analyst. Tillmann has consulted to a vast range of industry in Australia, New Zealand, Austria, Netherlands and Germany. Companies include ABB, the Heinz Group, CarterHoldHarvey, Metso, Koopman Meel flour mill and District Health Boards New Zealand to name a few. Tillmann is renowned for applying holistic systems-based approaches to achieve staff synergies that lead to maximum effectiveness and business acceleration. His engagement philosophy favours enlightenment over diktat as experience shows that staff potential can best be unlocked through education, collaboration and dialogue. Recently, Tillmann has designed and delivered entrepreneurship and innovation courses for engineering PhD and Master students and is currently rolling out 3D printing knowledge transfer initiatives with local industries. He enjoys working and researching in transdisciplinary teams at the engineering research - industry application interface.
Conference Attendees

Professor Robert Gorkin

Robert Gorkin III is an engineer and entrepreneur passionate about transforming innovative concepts to commercial reality with a focus on social good. He has navigated the academic-industry interface in Industry 4.0 across five continents, engaging with world-class institutes, global corporations, startups and non-for-profits. His track record includes international grants awarded from both academic and commercial positions, contributing to over 100 publications/proceedings (2500+ citations), and direct involvement in disruptive startups leading to investment, products, sales, and community benefits. In the last several years he has attracted $5M of government, commercial and philanthropic funding. Currently, Robert is an Associate Professor at the University of Wollongong (UOW) where he leads the team behind a Bill & Melinda Gates Foundation supported project developing revolutionary new condoms with a skin-like feel. In 2018, Robert cofounded Eudeamon Technologies in order to commercialize the condom work. Outside of UOW he is the co-founder of the leading Australian Graphene solutions company, Imagine Intelligent Materials, where he manages Research Engagement in Smart Infrastructure. In his various roles he supports new education and business initiatives around the nexus of new technologies (IoT, VR/AR, Drones, Smart Materials, 3D/4D Printing, etc). He resides between the Australian Institute of Innovative Materials and iAccelerate – Wollongong’s premier incubator where as the first “Researcher in Residence” he is building links between entrepreneurial researchers and dynamic startups/SMEs, and supporting impact investing.

Professor Faisal Hai

Professor Faisal Hai is an environmental biotechnologist. His group at the University of Wollongong (UOW), Australia works at the nexus of water quality and its impact on public health. He is the director of the Strategic Water Infrastructure Laboratory (SWIL) which has a longstanding track record of delivering competitive grant- and industry-funded projects. He is also the coordinator of the SMARTwater theme at the SMART Infrastructure Facility, which is a multidisciplinary research hub at UOW.

Professor Grace McCarthy

Professor Grace McCarthy is Dean of the Sydney Business School at the University of Wollongong, Australia. She has a PhD, MBA, MA, BA and is also a Graduate of the Australian Institute of Company Directors. Grace’s research interests include leadership, coaching and mentoring, innovation and entrepreneurship. She is recognized as an exceptional teacher and has been awarded an Australian Government Office of Learning and Teaching Citation for Outstanding Contributions to Teaching and Learning. In addition, she has received the University of Wollongong Vice Chancellor’s Award for outstanding teaching and been included in the University’s publication ‘Women of Impact’. Professor McCarthy is a non-executive director of two not for profit organisations. Prior to joining universities in the UK and Australia, Professor McCarthy held leadership roles in multinational firms which enable her to relate theory to real world experience and to challenge students to think critically about their experience.
Dr. Dana Perlman

Dana Perlman is an education and pedagogy researcher from the University of Wollongong who studies across a range of teaching and learning settings. He is a Director of Recovery Camp (an educational experience for healthcare professionals and people with a lived experience of mental illness) and the Pedagogical Laboratory for Education. Currently, Dana Perlman is conducting research in (a) clinical placements for healthcare professionals and (b) school-based settings. His work is primarily grounded in the Self-Determination Theory of motivation and human behaviour.

Professor Sharon Robinson

Sharon Robinson researches how Antarctic plants respond to climate change. She uses radiocarbon signatures, left behind in the atmosphere by nuclear testing, to date mosses and track environmental change around the coast of Antarctica. Her group identifies the sunscreens plants make to protect themselves from elevated UV-B radiation due to ozone depletion. She is also applying new technologies, including the use of drones in Antarctica, to monitor plant health and productivity, and developing novel sensors that will help to track crop and forest health in future.

Professor Ann Rogerson

Associate Professor Ann Rogerson is Associate Dean (Education), in the Faculty of Business at the University of Wollongong, Australia. She holds a Doctor of Business Administration (Interpersonal Workplace communication), Master of Management (Dist) and a Master of Education (Higher Education) (Dist). She is a trained Targeted Selection interviewer, educator, and an experienced human resources practitioner. As a passionate educator, Ann engages students and colleagues in developing lifelong learning skills while embedding ways to connect learning experiences to theory and real world contexts. Ann’s research focuses on issues related to the prevention and detection of academic integrity issues, the use of paraphrasing tools, and interpersonal communication. Patterns of behaviour and communication are investigated in workplace and/or organisation settings to provide insight and opportunities for growth, personal and professional development using reflective practice.
Conference Attendees

**Professor Timothy Marchant**

Professor Timothy Marchant is Dean of Research and Professor of Applied Mathematics in the School of Mathematics and Applied Statistics. Professor Marchant gained a PhD in Applied Mathematics from the University of Adelaide in 1988 and has published about 75 research papers. Professor Marchant’s research areas include nonlinear optics, nonlinear waves and combustion theory. Professor Marchant is a Fellow of the Australian Mathematical Society, a Past President of the Australian Mathematical Society and a Member of the Endeavour Awards selection panel. He is also an editor of the Applied Mathematical Modelling Journal. Professor Marchant is a member of the Illawarra Bridge Club and is learning Mandarin.

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**Sally McNeill**

Sally McNeill has been working in research management for several years; joining the Research Office late 2017 as the Major Research Initiatives Officer. In this role she is responsible for initiating and supporting strategic development activities for major research funding initiatives, including large scale collaborative research ventures, to maximise researchers’ potential for success.
NC State University

**Dr. Warwick Arden**

Dr Warwick Arden is North Carolina State University’s Executive Vice Chancellor and Provost and has been in the position since December 2010. From July 2014 to February 2015, Arden concurrently served as interim senior vice president for the University of North Carolina system, comprised of 17 campuses serving more than 220,000 students. Previously, Dr Arden served as interim provost since 2009, and as dean of NC State’s College of Veterinary Medicine from 2004 to 2009. As provost, he is NC State’s chief academic officer, reports to the chancellor, and collaborates with vice provosts, executive officers, college deans and others in the administration of all academic and student affairs. He has led numerous key campus initiatives, including the development and implementation of “The Pathway to the Future: NC State’s 2011-2020 Strategic Plan,” along with the university’s recent reaffirmation of accreditation by the Southern Association of Colleges and Schools. Dr Arden received a Bachelor of Science in veterinary sciences (DVM equivalent) and a diploma of veterinary clinical studies from the University of Sydney, Australia; a Master of Science in physiology from Michigan State University; and a PhD in physiology and biophysics from the University of Kentucky. He has extensive experience in veterinary surgery, having served as department head and professor for the Department of Veterinary Clinical Medicine at the University of Illinois at Urbana-Champaign; associate professor of surgery and physiology and director of the Surgical Research Program at the University of Kentucky College of Medicine; and as assistant professor of surgery at both the University of Kentucky College of Medicine and Michigan State University College of Veterinary Medicine. He is also a member of several professional veterinary organizations and served as president of the Association of American Veterinary Medical Colleges.

**Dr. Bailian Li**

Dr. Bailian Li is Senior Vice Provost for Global Engagement at NC State University. As the Chief International Officer for the University, he provides leadership for the University’s overall mission of global engagement in research, education, and economic development. He works closely with the Provost, senior vice provosts and deans, faculty and staff to promote global perspectives into all functions of teaching, research, extension and engagement and to strengthen NC State’s international presence in an ever-changing global society. He has administrative oversight for the Office of Global Engagement, the umbrella organization with ten units that provide NC State University faculty, staff, students and communities with the international knowledge, cultural understanding, skills and experience they need to succeed in the global economy. He is a Professor of Forestry & Environmental Resources and previously served in various administrative positions at University of Minnesota and NC State University. His research projects involved quantitative genetics, forest genetics, biotechnology, genomics and tree improvement, and many of which have significant international dimensions and collaborations with scientists in different countries.
Dr. Debbie Acker

Dr. Debbie Acker is Senior Associate Director of Operations and Academic Programs for the Shelton Leadership Center at NC State University. In addition to overseeing operations, Debbie teaches leadership courses and oversees the Leadership: Cross-Disciplinary Perspectives and Global Leadership and Team Decision-Making Minors. Debbie holds a doctorate in Higher Education Administration from NC State and a Master’s in School Counseling from Syracuse University. She joined the Center in May 2003, following her work at NC State within the College of Agriculture and Life Sciences on a Youth/Adult Sustainability Project and with the College of Education as Assistant Director of Research on the National Initiative for Leadership and Institutional Effectiveness. Passionate about her work with the Shelton team, she continues to enhance the development of the program model by incorporating a research-based critical reflection model integrated into the leadership training. Debbie has worked with multigenerational clientele to deliver professional leadership training on experiential and collaborative learning modules on several leadership topics.

Dr. Kate Annett-Hitchcock

Kate Annett-Hitchcock, PhD, is an Associate Professor at the College of Textiles at North Carolina State University. She has a BA in Art History from the University of Manchester, an MA in Clothing & Textiles from Michigan State, and a PhD in Clothing & Textiles from Virginia Tech. Prior to NC State, she taught at the Savannah College of Art and Design, Virginia Tech, and East Carolina University. She studies design and product development for under-represented populations in the apparel field, and also has a strong interest supporting women in entrepreneurship. She is passionate about community engagement, especially engaging sustainable strategies to serve all populations with high quality apparel and textile products. She believes that a human-centered approach to design can facilitate change in many aspects of the community, industry and the environment. She is co-founder and current Director of the Advancement for Women Entrepreneurs (AWE) at NC State, and founder of Textile Products for People with Disabilities, now known as Fashioning Health and Wellbeing. She has won awards for academic work, including the Senior Faculty Award at the International Federation of Fashion Technology Institutes in Amsterdam (2017), and the Equity for Women award at NC State in 2017. She is also Community Engaged Faculty Fellow at NC State. She is also an amateur musician and is a vocalist and instrumentalist in two local bands.
Paula Barngrover
MBA, Business Administrator. Paul has ten years of experience in the Animal Protein Industry. She is responsible for Sales management, and Development and Innovation.

Dr. John Begeny
John Begeny is an associate professor of School Psychology at North Carolina State University. His primary interests relate to improving educational equity through academic intervention, effective community–university partnerships, enhancing school-based systems, and internationalization. John collaboratively develops comprehensive intervention programs that are feasible for educators to use, easy to access, and effective in supporting students’ learning in areas such as reading, math, and writing. In 2010, he founded Helps Education Fund, an international 501(c)3 nonprofit organization that offers various forms of free and research-based support for educators and caregivers.

Elizabeth Benefield
Elizabeth Benefield, MA, Duke University, BA, College of Wooster, is beginning her fifth year at NC State University as Program Director of Social Entrepreneurship and Innovation. She is leading a campus wide effort to create and nurture a strong social innovation campus ecosystem, and build external partnerships with social sector leaders and organizations to empower students to use their unique skills to become engaged citizens of the world. She established the university’s Social Entrepreneur in Residence program, its TEDx-style COMx series and Dinners With Purpose events. She designed and launched the NC State Social Innovation Fellows in fall 2017 and manages all operations. Prior to coming to NC State, Elizabeth spent fifteen years as a consultant to nonprofits and social sector organizations in fundraising, and worked ten years prior as Director of Development and Assistant Dean for the UNC-Chapel Hill School of Social Work. Passionate about blending the expertise of diverse sectors, she launched a social enterprise, the Rosie Group, to help nonprofits innovate in the areas of sustainability and social entrepreneurship. Elizabeth co-authored the book, Building a Strong Foundation: Fundraising for Nonprofits. She loves to travel, practice yoga and champion social justice, especially for women and girls.
Shaun Bennett
Shaun Bennett is the Research Librarian for Business, Education, and Data Literacy at the NC State University Libraries. His academic background is a mixture, ranging from medieval history and saga literature, to library sciences, technology education, and financial data analysis. As librarian, he focuses on assisting students and faculty conducting research related to business, education, data, and large-scale digital media projects. He also conducts workshops to help with various research and technology skills, is involved with the Alt-Textbook Program (open-source textbooks to reduce student costs) and leads the Peer Scholars Program (giving graduates and postdocs the opportunity to teach useful research skills to their peers using Library resources and spaces). On the research side, his current research focuses on first-generation students, and specifically how academic libraries can assist first-generation students in overcoming the unique problems they can encounter.

Steven Bert
Steve Bert is a Research Associate with ITRE’s Economic Analysis and Policy Assessment Group. He specializes in data analyses and economic appraisals. Mr. Bert’s professional career has included both academic and consultative research in the areas of economic impact analysis, revenue generation policies, and urban and rural transportation planning, among other topics. The connection between economics, policy, and quality of life is an acute focus of Steve’s current research, for which he conducts input-output modeling, wider economic benefit evaluations, and non-market valuations. His research products have led to sustained or increased funding for all modes of transportation in North Carolina, the implementation of transportation and health project prioritization programs in North Carolina and Delaware, and strategies to mitigate disparate impacts and disproportionate burdens confronting City of Raleigh transit customers.

Dr. Jason Bocarro
Dr. Jason Bocarro is a Professor in the Department of Parks, Recreation & Tourism Management at NC State University. Dr. Bocarro’s research examines how community programs and policies can contribute to people’s physical activity and overall health and well-being. His research has been featured in Time Magazine, Forbes, National Public Radio, and USA Today among other outlets. He is also the co-author of the book “Legacies of Mega Events: Fact or Fairy Tales”. In 2011, he was one of 5 researchers in the U.S. to be awarded a policy translation grant from Robert Wood Johnson Foundation in recognition of research that has the potential to change public policy. Dr. Bocarro has won a number of teaching and research awards including University Faculty Scholar, Outstanding Teaching Award and Alumni Distinguished Undergraduate Professor (NC State), Outstanding Outreach Scholar and Outstanding New Research Award (University of New Hampshire) and International Research Fellowships (Coventry University, Technical University of Munich). He is also one of the co-inventors of a web application, GoalRx, designed to provide assistance to behavioral healthcare consultants. Dr. Bocarro is also the Executive Education Director for the British American Business Council designed to build on the close professional, business, and cultural relationships between the United States and the United Kingdom. Dr. Bocarro received his Ph.D. from Texas A&M University in 2001. He was an Assistant Professor at the University of New Hampshire (2001-2005).
Michael Bustle

Michael Bustle is Associate Vice Provost for Global Engagement at NC State University and the Director of the Global Training Initiative (GTI) which serves to connect the people, programs, and resources at NC State and throughout North Carolina with overseas partners and clients to promote global awareness, competency, and competitiveness. We develop innovative and custom training programs for students, faculty, university administrators, government employees, industry professionals, and executives on our campuses, throughout North Carolina, and overseas. Special focus training areas include leadership, innovation and entrepreneurship, global skills competency, VR/XR/AI for teaching cross-cultural leadership skills, technical writing and presentation skills for non-native speakers, and teacher training programs. Current regional priority areas: Japan, China, Latin America, and the MENA and ASEAN regions.

Dr. Jon Carr

Jon C. Carr (jon.carr@ncsu.edu) is the Jenkins Distinguished Professor of Entrepreneurship at North Carolina State University. His research focuses on psychological aspects of entrepreneurship and family business, to include topics such as work-family conflict, human and social capital, and serial entrepreneurship. His additional interests include employee innovation and creativity, and the role of business model innovation within small, entrepreneurial firms. His research has appeared in Academy of Management Journal, Journal of Management, Journal of Applied Psychology, Strategic Entrepreneurship Journal, and Entrepreneurship Theory and Practice. He has served as a special issue editor for several journals, to include Entrepreneurship Theory and Practice and Family Business Review. Dr. Carr is an Associate Editor at Family Business Review as well as a member of the editorial boards at Journal of Business Venturing and Entrepreneurship Theory and Practice.

Dr. Julie Casani

Dr. Casani is the Director and Medical Director of Student Health Services at NC State where she oversees the delivery of primary care, women’s services, physical therapy, nutrition services and pharmacy to students, faculty and staff. She is an Adjunct Associate Professor in Biological Sciences where she instructs in Global Health, Agriculture Security and One Health and mentors pre-health students. She is the Faculty Coordinator of the new GH Minor at NC State. Until June of 2017, she was the Director of Public Health Preparedness and Response in the North Carolina Division of Public Health. This Branch coordinates the preparedness system for 85 Local Health Departments and 4 regional offices and provides response/recovery coordination, subject expertise and support to the Local Health Departments. From 1999-2006, she was the Preparedness Director at the Maryland Department of Health and Mental Hygiene. She has been a policy and health practice consultant to several national workshops and committees in WMD, serving on 3 Defense Science Boards. She also served three consecutive terms as a member of the Homeland Security Science and Technology Advisory Committee for DHS. She recently co-authored the text: Disasters and Public Health: Planning and Response. She currently serves on a National Academies of Sciences Committee on Evidence Based practices for PH Emergency Preparedness and Response. Dr. Casani practiced clinical Emergency Medicine in the Johns Hopkins system for 17 years. Dr. Casani received her MD from New York University and her MPH from Johns Hopkins Bloomberg School of Public Health.
**Dr. Veronica Catete**

Veronica is a Research Scientist in the Department of Computer Science at NC State University, where she received her B.S. and Ph.D. degrees, also in Computer Science. She received her Masters from UNC Charlotte with a concentration in mobile game development. Veronica's overall goal has been on improving K-12 education through computing. Her early work evaluated ways to determine affect in intelligent game-based learning environments, then moved on to developing platforms for social game-based learning (both programming and human networking skills). Currently, Veronica researches teacher training and curriculum development for computing education. Her dissertation work focused on developing support mechanisms for novice computing teachers assessing high school programming labs, which was recognized with back-to-back Best Paper awards at the international conference on Innovation and Technology in Computer Science Education. Since then, Veronica has been working to incorporate computing and computational thinking into core classes, looking into a faded scaffolding approach to both teacher professional development and student activities. In addition to her academic research path, Veronica has led computer science outreach to middle school students since January 2009. Through outreach, she’s piloted ideas and developed new insights for computing education research. Her outreach efforts have grown from one local middle school to over 1000 students across North Carolina. Internationally, Veronica is member of NCSU’s Global Engagement Institute, where she works with Mothering Across Continents to assess hands on computational thinking and engineering design cycles with rural secondary schools in Rwanda developing teacher PD and local sustainability teams.

**Dr. Al Chen**

Professor, Department of Accounting

I strive to engage in multidisciplinary programs that develop tools and performance indicators to support business to achieve positive outcomes in environmental, economic systems and diversity through my research. I motivate my students to learn to identify, engage and empower themselves in making sustainability improvements.

My research specialties include:

- Sustainability performance measurement
- Sustainability reporting
- Business analytics for improving safety, global supply chain and sustainability
- Business sustainability issues and practices
- Environmental cost management

The goals of my research program include:

- Developing sustainability and social responsibility measurement, reporting, and assessment
- Enhancing value chain through smart technology, enterprise risk management, and strategic cost management
- Train future students in research and resource management and conservation
Conference Attendees

Karen Ciccone
Karen Ciccone is Head of the Data & Visualization Services Department in the NC State University Libraries. She leads a department that provides expert consulting and instruction on data analysis, data visualization, geospatial techniques, and other aspects of working with data. Her department offers a series of high-demand workshops on data science and visualization topics. See https://www.lib.ncsu.edu/services/data-visualization.

Professor Jose Cisneros
Jose Cisneros has been the Director of International Programs in the College of Agriculture and Life Sciences (CALS) at North Carolina State University (NC State) since 2015; he is also a faculty member in the Department of Horticultural Science where he teaches horticulture entrepreneurship. Prior to joining NC State, Cisneros was the founder and program director of the Global Agribusiness Program at the University of Missouri, a marketing outreach specialist at Michigan State University, and an entrepreneur for ten years. Cisneros uses an entrepreneurial approach to lead the office of International Programs. Within such approach, he has developed the most comprehensive interactive database of faculty international activities among peer agricultural colleges. He has also founded the CALS Global Academy, an initiative to train international professional in agriculture and life sciences, which have delivered programs to professionals across four continents. Currently, Cisneros is developing a new international development model – CREdO- that seeks to integrate research, education, and outreach in global initiatives with the participation of governments agencies, universities, and research and outreach institutions. Prior to joining NC State, Cisneros founded AgriFoodGateway, a comprehensive web-based information database for the horticulture industry, which served users from over 200 countries. At the University of Missouri, he founded the Global Agribusiness Program, an international initiative that supported small and midsize U.S. agribusinesses to initiate and/or expand international commercial activities. At Michigan State University, Cisneros led an initiative to partner U.S. producers with counter season growers. During his entrepreneurial career, Cisneros started six businesses in the horticulture, poultry, consumer retail, and mobile electronics industries.

Hilary Davis
Hilary Davis leads the Collections & Research Strategy Department at the NC State University Libraries. Her primary role is to provide leadership and direction in the Libraries’ overall collection development strategies, and play a leading role in the Libraries’ initiatives to support research data management at NC State. She holds an MLS from University of Missouri-Columbia and an MS in Biology from University of Missouri-St. Louis.
David Dixon

David Dixon is the Director of Global Partnerships in the Office of Global Engagement at NC State. His work involves strategic partnership development and efforts to expand and strengthen collaboration with academic and research institutions around the world. He serves to facilitate inter-institutional connections through relationship-building and program development. He enjoys working with faculty, staff and colleagues on campus to expand international programs at NC State and liaises with counterparts across NC State’s network of international partner institutions. David is a native of North Carolina and has lived and studied overseas at University College Cork in Cork, Ireland. He received a BA from Campbell University in Government and a Master of International Studies degree from the School of Public and International Affairs at NC State.

Dr. Debora Esposito

A native of Brazil, Dr. Debora Esposito received her BS in Chemistry from Federal University of Vicosa, Brazil. She earned her professional degrees at Rutgers University, N.J.; an MBS in Drug Discovery and Development and a PhD in Cell Molecular Plant Biology. Prior to her current role at PHHI, she served as director of the PHHI Cell Culture Facility, and was a Senior Research Scientist at Dole Nutrition Institute. Her lab’s key scientific goal is gaining an integrated understanding of the molecular, cellular and physiological mechanisms by which select plant-derived proteins and phytoactives may modulate tissue regeneration and repair. Her research has encompassed the disciplines of plant chemistry, inflammation, skin biology, muscle physiology, basic and applied molecular and cellular biology and nutrition.

Dr. Xiaolei Fang

Xiaolei Fang obtained his M.S. in Statistics and Ph.D. in Industrial Engineering from the Georgia Institute of Technology, Atlanta, Georgia, in 2016 and 2018, respectively. Currently, he is an Assistant Professor in the Fitts Department of Industrial and Systems Engineering at North Carolina State University. His research interests lie in the field of industrial data analytics for High-Dimensional and Big Data applications in the energy, manufacturing, and service sectors. Specifically, he focuses on addressing analytical, computational, and scalability challenges associated with the development of statistical and optimization methodologies for analyzing massive amounts of complex data structures for real-time asset management and optimization.

Dr. Steve Frank

Research in my lab focuses on protecting trees and their ecosystem services from pests and abiotic stressors caused by urbanization and climate change. Most of our research is on urban trees, either planted or in forest fragments. We also study effects of urbanization and climate change on invasive plants and arthropods, urban biodiversity, and arthropod provided services, such as decomposition and pollination. I am interested in collaborating on projects in any of these areas and projects focused on sustainable cities, and projects that connect urban trees with human health.
Dr. Jodi Hall

Dr. Jodi Hall is a health disparities researcher that believes strongly in the role of interdisciplinary and global partnerships in reducing disparities. Social workers are in close contact with families and are often the first to notice changes in health or needs for services. Dr. Hall seeks to develop strategies to help social workers and other health professionals engage clients in activities that are known to improve health and reduce health disparities. Dr. Hall studies the role that social environment plays in overall health and well-being, particularly in conditions like obesity and cardiovascular disease. Dr. Hall is currently leading a study to explore how low-to moderate-income mothers understand the role that environmental toxins, including toxic stress, play in well-being.

Dr. Cathrine Hoyo

Dr. Cathrine Hoyo is an epidemiologist and associate professor in the Department of Biological Sciences and director of the Epigenetics, Cancer and the Environment Laboratory, housed in the Toxicology Building on the Centennial Campus. Her research focuses on determining the role of environmentally-induced alterations in the epigenome in the genesis of common chronic diseases. This includes diseases that disproportionately affect minority populations, including cancer and obesity. Hoyo seeks to use this information to improve the prediction, therapy, and prevention of diseases. She is a member of the Center for Human Health and the Environment (CHHE) and its Integrative Health Sciences Facility Core, comprised of researchers with basic and population science expertise to facilitate translation in vitro and in vivo discoveries that provide mechanistic insights into epidemiologic studies. Hoyo, a native of Zimbabwe, obtained her bachelor’s degree from the University of Sierra Leone, Njala College, her master’s degree from UC Berkeley, and her Ph.D. from the University of North Carolina at Chapel Hill. Her postdoctoral fellowship was with the UNC Project Malawi in Lilongwe, under the supervision of Irving Hoffman and Myron Cohen. Her first faculty appointment was at North Carolina Central University. She then joined the faculty at the Duke University School of Medicine, where she spent nearly 10 years in the Department of Community and Family Medicine and another two years in the Department of Obstetrics and Gynecology, Division of Epidemiology.

Susan Ivey

Susan Ivey is the Research Data & Infrastructure Librarian at NC State University Libraries, where she collaborates with the Office of Information Technology to support research data storage services, helps advance library-wide efforts to support research data management for faculty and students throughout the research lifecycle, and communicates with stakeholders across campus to determine and investigate evolving data needs. Prior to joining NC State, she was a Digital Repository Content Analyst at Duke University Libraries and the Digital Initiatives Librarian and Assistant Professor at the University of Mississippi Libraries. She received a M.S. in library and information science from the University of North Carolina at Chapel Hill, and a M.A. in English and a B.A. in communication media from North Carolina State University.
Dr. Shivaramu Keelara

Dr. Shivaramu Keelara Veerappa is a Research Assistant Professor in the Department of Population Health and Pathobiology who specializes in antimicrobial resistance (AMR) surveillance and Global One Health training. Keelara Veerappa received his BVSc & AH degree (DVM equivalent) in 2005 from Bengaluru Veterinary College, India. After receiving a junior research fellowship from the Indian Council of Agricultural Research (ICAR), he completed a master’s degree in veterinary public health, focusing on Listeria – a bacterial, zoonotic pathogen responsible for causing listeriosis in humans and animals. In 2009, joined NC State’s College of Veterinary Medicine as a PhD student in Dr. Sid Thakur’s team, and examined the dissemination of AMR from farm to fork by studying the molecular epidemiology of Salmonella species in pigs, humans and environment. After completing his PhD, he joined the US Department of Agriculture (USDA) in Maryland as a research associate to explore the use of natural essential oils to kill biofilm forming Salmonella in food production. Currently, working as Research Assistant Professor in Dr. Paula Cary’s lab and as a facilitator for the WHO ESBL E. coli Tricycle Project, which aims to establish a new global AMR surveillance system. In this role, he travels around the world to provide training in surveillance protocols, ESBL E. coli isolation, antimicrobial susceptibility testing, and data analysis. In addition to the WHO ESBL E. coli Tricycle Project, he continues to work with Dr. Cray to assess the global AMR burden using the IBM Watson platform.

Dr. Kelly Meiklejohn

Dr Meiklejohn joined the Department of Population Health and Pathobiology in January 2018, as a Chancellor’s Faculty Excellence Program Cluster hire in Forensics. Dr Meiklejohn completed her doctoral work in the School of Biological Sciences at the University of Wollongong (Australia) on the systematics and taxonomy of the forensically important Australian flesh flies. Prior to joining NC State, Dr. Meiklejohn was most recently a Post Doctoral Research Fellow with the Counterterrorism and Forensic Science Research Unit (CFSRU) of the FBI Laboratory, in Quantico, VA (sponsored by ORISE). In this position, Dr Meiklejohn directed several research and development projects in the area of DNA forensics, spanning the utility of massively parallel sequencing for human identifications and investigative leads, along with developing capabilities to molecularly identify non-human biological materials encountered in casework. In 2018, Dr Meiklejohn was the PI on a successful UGPN Grant between NCSU, UOW and USP focussed on developing a global database for blowflies.

Dr. Tim Michaelis

Tim Michaelis is an assistant professor in the Management, Innovation, and Entrepreneurship department at NC State. His research focuses on the topic of resourcefulness in entrepreneurship. He teaches finance and accounting for entrepreneurs at NC State.
Conference Attendees

Paul Mugge

Paul Mugge is the Executive Director at the Center for Innovation Management Studies. For over 10 years we at the Center have been performing a variety of industry projects (over 100) using big data analytics. Each of these projects, using IBM Watson Explorer, SAS Visualization, and most recently Open Source (Python) tools have been aimed at helping organizations better inform their strategies. From this experience we have developed a solid 8-step process for helping any organization tackle big data using UTA and NLP analytics techniques and we would like to share this method with the attendees.

Barbara Mulkey

Barbara graduated from NC State magna cum laude in Engineering in 1977, and then completed a Master’s Degree in Structural Engineering at NC State in 1984. Entrepreneurial by nature, Barbara founded Mulkey Engineers & Consultants, Inc. in 1993, an engineering consulting firm specializing in engineering and related services for both the public and private sectors. Begun at her kitchen table, the company made the list of Top 500 Engineering Companies nationally multiple times while under her leadership. With a career foundation as a structural engineer focusing on highway bridge design, Barbara naturally placed a strong emphasis on her firm’s transportation planning, design and construction services. Today she is heralded as one of the most respected transportation experts in the state, as evidenced by her induction into the NC Transportation Hall of Fame. Giving back to her profession, Barbara served as President of The American Council of Engineering Companies for the state organization as well as National Director. She was later named a Fellow by the American Society of Civil Engineers (FASCE). Barbara serves her community as a member of the Research Triangle Board of Directors, and Chairs the Triangle Universities Center for Advanced Studies Board. Among other community recognitions, Barbara was named the TBJ Legacy Leader, and she was also admitted into the Leadership Raleigh Hall of Fame. At NC State, Barbara served for eight years on the Board of Trustees, including two years as Chair. She has received the Distinguished Alumnus Award by the College of Engineering, in 2016 she was awarded the Watauga Medal, and this past year was one of the inaugural inductees into the Civil, Construction & Environmental Engineering Hall of Fame. Spending time with family is Barbara’s favorite pastime, and she enjoys activities with her husband Jim, their children and their grandchildren. Barbara is a prolific reader and also enjoys playing the piano, playing racquetball, and kayaking at Topsail Beach. She is an active member of Hope Community Church in Cary, NC. Since 2016, Barbara has been the Director of the General Hugh Shelton Leadership Center at NC State University. The Center’s programs focus on building the next generation of values-based leaders at the university, as well as in corporate, government and youth organizations across the state.
Conference Attendees

**Dr. Mike Mullen**

Dr. Michael Mullen serves as Vice Chancellor and Dean for the Division of Academic and Student Affairs at North Carolina State University where he provides leadership for 570 full-time employees and 2500 student employees who provide academic, co-curricular, and extra-curricular support and programming for all students. He is also a Professor of Soil Science in the Department of Crop and Soil Sciences at NC State. Mullen served at the University of Kentucky as Associate Provost for Undergraduate Education and Associate Dean in the College of Agriculture. Mullen also was a professor in the College of Agriculture at the University of Tennessee. He received his BS and MS degrees from Purdue University in 1981 and 1984, and his PhD from NC State University in 1987. Mullen has received several teaching awards at the university and national levels and is published in several journals including: Soil Science Society of America Journal, Soil Biology and Biochemistry, Transactions of the ASAE, Environmental Toxicology and Chemistry, Journal of Plant Physiology, and others.

**Dr. Seth Murray**

Seth Murray is Director of the Program in International Studies and Teaching Associate Professor in the Department of Sociology and Anthropology at North Carolina State University. His research centers on historical ecology, environmental anthropology, and the globalization of food systems in Burgundy as well as in the Basque region of southwestern France and northern Spain. He co-edited The Anthropology of Postindustrialism: Ethnographies of Disconnection, published by Routledge in 2016.

**Dr. Celen Pasalar**

Dr. Celen Pasalar’s expertise involves organizing and promoting numerous design and planning projects for the benefit of communities primarily throughout North Carolina. Pasalar received her undergraduate degree in architecture (1997) from Middle East Technical University in Turkey and her master’s degree in urban design (1999) from the same university. She has received her doctorate degree from the College of Design, NC State University with a focus on Community and Environmental Design in 2004. Pasalar’s research interest involves architectural design, urban design, the relationships between human behavior and the built environment, such as urban streets; public spaces; and educational settings (K-12 school environment, university campus environment). Her research also focuses on community design, downtown revitalization, the role of design and its impact on the quality of life and the natural environment, smart growth, new urbanism, and children’s environment. Pasalar is a registered architect in her home country, Northern Cyprus and active member of the Union of the Cyprus Turkish Engineers and Architects, which is also a member section of UIA (The International Union of Architects). She has practical experience in Turkey, Northern Cyprus, and United States where she worked for various architectural firms and construction companies. Pasalar is an active member of The Honor Society of Phi Kappa Phi (serving also in various committees) since 2002. She also serves as an active member in Appearance Commission at Town of Apex, North Carolina.
Conference Attendees

**Professor Bill Rand**

Bill Rand is an Associate Professor of Marketing at the Poole College of Management at NC State University, specializing in the intersection of marketing and computer science. His research focuses on data-driven decision-making and the diffusion of information among consumers and organizations. To do this he examines the use of computational modeling techniques, such as agent-based modeling, machine learning, network analysis, natural language processing, and geographic information systems, to help understand and analyze complex systems, such as the social media marketing, organizational behavior, and predictive analytics. He has applied his methods to analyze big data sets that have been drawn from social media platforms, marketing communications, and large-scale software systems. He works to develop methods, create pedagogy, and build frameworks to allow researchers and marketing practitioners to use analytics and data-intensive methods in their own work. He has received funding for his research from the NSF, DARPA, ARL, Google, WPP, and the Marketing Science Institute. His work has been published in JM, JMR, IJRM, Management Science, and JOM. He received his doctorate in Computer Science from the University of Michigan in 2005 and prior to coming to NCSU was at the University of Maryland for eight years.

**Professor Rakesh Ravi**

Rakesh Ravi is a CIMS Data Scientist and Research Assistant Professor at the Poole College of Management. He graduated from NC State University with a Masters in Computer Networking.

**Ingrid Schmidt**

Ingrid Schmidt is Associate Vice Provost for External Relations and Development in the Office of Global Engagement at North Carolina State University. After serving as director of study abroad for 22 years, her current focus is on growth in a range of strategic areas including international internships, the NC Japan Center, relationships with external stakeholders, and fundraising and development to help ensure the success of NC State’s strategic global initiatives.
Conference Attendees

**Lewis Sheats**

Sheats is an entrepreneur and educator. He has identified and developed several unique new ventures from launch to profitability and has raised venture funding and bootstrapped several ventures from concept to exit. Sheats serves as the assistant vice provost for Entrepreneurship and the executive director of the NC State Entrepreneurship Clinic, an initiative which exposes students to experiential learning, embeds them in the entrepreneurship community and provides the resources needed to execute their own ideas. As a faculty member of the NC State Poole College of Management, he is devoted to preparing the next generation of entrepreneurs. Sheats is an award-winning educator who was recently named an Alumni Distinguished Undergraduate Professor by the NC State Alumni Association and the 2015 Dr. John S. Risley Entrepreneur of the Year.

**John Streck**

John Streck's past work has been in VLSI, networking and cloud computing. He was a lecturer in computer science for networking, cloud computing courses and senior design. As director of the Institute for NEXT generation IT systems, he engaged in translational work of taking a concept into a working model. He worked with another professor in the Data Driven Decisions course.

**Dr. Andy Stringer**

Dr. Andy Stringer is the director of Global Health Education, veterinary epidemiologist and principal investigator of the Health and Livelihoods (HEAL) Group. The HEAL Group studies a range of issues focused on the interface of animal health and livelihoods in Ethiopia utilizing a One Health approach. We combine approaches from the biological and social sciences to understand the determinants of health and their relationships with livelihoods. Our goal is to understand the health constraints of both animals and people, and to use this information to improve livelihoods through effective interventions.
Dr. Andrew Taylor

Andrew J. Taylor is professor of Political Science in the School of Public and International Affairs at NC State University, where he has taught since 1995. He received his Ph.D. from the University of Connecticut and teaches courses principally in American politics. He won the College of Humanities and Social Sciences’ Poole Outstanding Teacher Award in 1999 and its Outstanding Researcher Award in 2014. Taylor received NC State’s Extension Service Award in both 1999-2000 and 2003-4. Taylor’s research focuses on American governmental institutions. He has published in many journals including the American Journal of Political Science, Journal of Politics, Legislative Studies Quarterly, Political Research Quarterly, and American Politics Research. He is the author of the books, Elephant’s Edge: The Republicans as a Ruling Party, The Floor in Congressional Life, Congress: A Performance Appraisal, and, with Toby L. Parcel, The End of Consensus: Diversity, Neighborhoods, and the Politics of Public School Assignments. He is a recipient of U.S. State Department grants and runs the Economic, Legal, and Political Foundations of Free Societies program that is supported by a grant from the John William Pope Foundation. Taylor also provides political commentary for a number of local media outlets. In 1999-2000 he was the American Political Science Association’s Steiger Congressional Fellow. He was chair of NC State’s Department of Political Science from 2006 to 2010 and in 2012-13 President of the North Carolina Political Science Association.

Dr. Sid Thakur

Dr. Siddhartha “Sid” Thakur is a Professor in the College of Veterinary Medicine at North Carolina State University. He is the Director of Global Health program at both the College of Veterinary Medicine and the NC State University. He was the Associate Director at the Comparative Medicine Institute and led the Emerging and Infectious Diseases Research program. He received his Degree in Veterinary Medicine and Master of Veterinary Public Health from India. He earned his Ph.D. in Population Medicine at the College of Veterinary Medicine, NC State. Before joining the faculty at NC State University, Dr. Thakur was an Oakridge Research Fellow at Center for Veterinary Medicine, FDA, Maryland. He espouses the concepts of “One Health” and seeks to understand how antimicrobial resistance develops in “superbugs” that affect animal and human health. He has won numerous awards including the Larry Beuchat Young Researcher Award by the International Association for Food and the Outstanding Global Engagement award by NC State. He is currently an NC State Chancellor faculty scholar. Dr. Thakur has authored or co-authored 45 peer-reviewed publications and edited two books.

Micah Vandegrift

As the Open Knowledge Librarian at NCSU Libraries, Micah develops strategic approaches to open research practices, policies, and programs. He is the lead Principal Investigator for Visualizing Digital Scholarship in Libraries and Learning Spaces (Immersive Scholar) funded by a grant from the Andrew W. Mellon Foundation, and was a 2018-2019 Fulbright-Schuman Research Fellow studying open science policy and infrastructure in The Netherlands and Denmark.
Dr. Raju Vatsavai
Dr. Raju Vatsavai is Chancellor’s Faculty Excellence Program Associate Professor in CSC Dept. NCSU. He works at the intersection of spatial and temporal big data management, analytics, and high performance computing with applications in the national security, geospatial intelligence, natural resources, agriculture, climate change, location-based services, and human terrain mapping. Before joining NCSU, Raju was the Lead Data Scientist for the Computational Sciences and Engineering Division (CSED) at the Oak Ridge National Laboratory (ORNL). He has published more than 100 peer-reviewed articles in conferences and journals and edited two books on “Knowledge Discovery from Sensor Data.” He served on program committees of leading international conference including ACM KDD, AAAI, ECML/PKDD, SDM, ACM SIGSPATIAL GIS, CIKM, and IEEE BigData. He holds MS and PhD degrees in computer science from the University of Minnesota.

Dr. Mladen Vouk
Dr. Mladen Vouk is NC State’s fifth Vice Chancellor for Research. As Chief Research Officer (CRO), he oversees all research activities at NC State. Under his leadership, units reporting to the Office of Research and Innovation centrally manage research administration, the university’s intellectual properties, and industry and government agency alliances on the university’s award-winning research campus. Researchers at NC State are supported by more than $335 million in sponsored programs from federal, local government, industry, and nonprofit organizations. NC State’s research portfolio exceeds 5,000 invention disclosures, 1010 US patents, 800 active commercialization agreements, and 595 products to market. Centennial Campus hosts more than 70 corporate, government and non-profit partners working with the university’s 75+ centers and institutes, laboratories and research departments.

Vouk is a highly respected computer scientist and an IEEE Fellow who has received the IEEE Distinguished Service Award, the IEEE Golden Core Award, and the IFIP Silver Core award. A faculty member at NC State for more than 30 years, Vouk served as department head for computer science from 2004 to 2016. He is co-inventor of NC State’s Virtual Computing Laboratory, one of the world’s first cloud computing systems, and co-founder of NC State’s Computer Science Software Systems and Engineering Laboratory. He formerly served as technical director of the Center for Advanced Computing and Communication and was the associate vice provost for information technology from 2002 to 2012. He has been the director of NC State Data Science initiative since 2014 and was the Associate Vice-Chancellor for Research and Administration from 2016 to 2018. Vouk is the author or co-author of more than 300 publications. He has conducted groundbreaking research in software engineering, scientific computing and analytics, information technology and education, and high-performance computing. Vouk earned a Ph.D. in solid-state physics at King’s College London and a master’s degree in computer science at NC State.
**Dr. Richard Warr**

Richard Warr received his Ph.D in Finance from the University of Florida in 1998. His research focuses on information transmission in markets, equity valuation, endogeneity of corporate events such as option listings, short selling, capital structure and market microstructure. He has published papers in several top finance and accounting journals including the Journal of Accounting and Economics, the Journal of Financial and Quantitative Analysis, Financial Management and the Journal of Corporate Finance. He currently serves as the Co-Editor of the Financial Review. His teaching is in the area of investments, portfolio management, security analysis and Fintech.

**Dr. Alyson Wilson**

Dr. Alyson Wilson is a Professor in the Department of Statistics, Principal Investigator for the Laboratory for Analytic Sciences, and Director of the Data Science Initiative at North Carolina State University. Her research interests include statistical reliability, Bayesian methods, and the application of statistics to problems in defense and national security. Prior to joining NCSU, Dr. Wilson was a Research Staff Member at the IDA Science and Technology Policy Institute in Washington, DC (2011-2013), an Associate Professor in the Department of Statistics at Iowa State University (1999-2008), and a senior statistician and operations research analyst with Cowboy Programming Resources (1995-1999). Dr. Wilson is a Fellow of the American Statistical Association and the American Association for the Advancement of Science. She is an elected member of the International Statistical Institute and a member of the NCSU Research Leadership Academy. In addition to numerous publications, Dr. Wilson has co-authored a book, Bayesian Reliability, and has co-edited two other books, Statistical Methods in Counterterrorism: Game Theory, Modeling, Syndromic Surveillance, and Biometric Authentication and Modern Statistical and Mathematical Methods in Reliability. She holds a patent for her early work in medical imaging. Dr. Wilson received her Ph.D. in Statistics from Duke University, her M.S. in Statistics from Carnegie-Mellon University, and her B.A. in Mathematical Sciences from Rice University.

**Dr. Tianfu Wu**

Tianfu Wu received Ph.D. degree in Statistics from University of California, Los Angeles (UCLA) in 2011. He joined NC State University in August 2016 as a Chancellor’s Faculty Excellence Program cluster hire in Visual Narrative. He is assistant professor in the Department of Electrical and Computer Engineering. He works on computer vision, deep learning, deep grammar models, cost-sensitive bottom-up/top-down inference, lifelong learning by ALTER (Ask, Learn, Test, Explain and Refine). He has published over 30 papers on computer vision, statistical and deep learning and computing. His research has been focused on the three aspects: (i) Statistical learning of large scale and highly expressive hierarchical and compositional models from small or big data. (ii) Statistical inference by learning near-optimal cost-sensitive decision policies. (iii) Statistical theory of performance guaranteed learning algorithm and inference procedure.
The University Global Partnership Network sets out to create a foundation for international collaboration enabling academics and students from some of the world’s top universities to work together on issues of global importance.

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