

CASC Sustainability Workshop Speaker Biographies

Linda Akli

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As Assistant Director of Training, Education and Outreach, Linda Akli promotes and facilitates the awareness and use of cyberinfrastructure systems and services to new user communities, through the development of workshops, training events, conference exhibiting, and community building. Currently she is the XSEDE lead for Minority Serving Institution Engagement and the Minority Research Community programs. Previously, Ms. Akli managed the Packard Graduate Scholars, the Merck/AAAS Undergraduate Research Program, and the development of the BioScie Education Network (BEN), which is part of the National Science Foundation-funded National Science Digital Library at the American Association for the Advancement of Science. Ms. Akli holds a BS in Computer Science from Rensselaer Polytechnic Institute and has additional education in Engineering Management, Advanced Networking, and Systems Engineering.

Dr. Robert Atkinson

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Dr. Robert D. Atkinson is one of the country's foremost thinkers on innovation economics. With an extensive background in technology policy, he has conducted ground-breaking research projects on technology and innovation; is a valued adviser to state and national policymaker; and is a popular speaker on innovation policy nationally and internationally. Dr. Atkinson is the author of *INNOVATION ECONOMICS: THE RACE FOR GLOBAL ADVANTAGE* (Yale, 2012) and *THE PAST AND FUTURE OF AMERICA'S ECONOMY: LONG WAVES OF INNOVATION THAT POWER CYCLES OF GROWTH* (Edward Elgar, 2005). Before coming to ITIF, Atkinson was Vice President of the Progressive Policy Institute and Director of PPI's Technology & New Economy Project. *Ars Technica* listed Atkinson as one of 2009's Tech Policy People to Watch. He has testified before a number of committees in Congress and has appeared in various media outlets including CNN, Fox News, MSNBC, NPR, and NBC Nightly News. He received his Ph.D. in City and Regional Planning from the University of North Carolina at Chapel Hill in 1989.

Dr. Susan Atlas

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Dr. Susan R. Atlas is Research Associate Professor of Physics and Astronomy and Director of the Center for Advanced Research Computing at the University of New Mexico (UNM). She is co-Director of the Biostatistics and Bioinformatics Shared Resource and an Associate Member of the Cancer Biology and Biotechnology Program at the UNM Cancer Center. Dr. Atlas leads computationally-intensive research programs in molecular biophysics and biophysics, and in machine learning/pattern recognition as applied to molecular classification for outcome prediction and novel subtype identification in cancer. Her theoretical work relates to the development of exchange-correlation energy density functionals for strongly-correlated electronic systems and charge-transfer embedded-atom functionals for molecular dynamics simulations of molecules and materials.

Dr. Barry Bolding

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Dr. Barry Bolding has over twenty-five years of experience in HPC as a scientist, applications specialist, and systems architect. Over the past five years, he has served in several executive roles at Cray Inc., including VP of Scalable Systems, VP of Marketing and VP of Storage and Data Management. Dr. Bolding received his Ph.D. from Stanford University, and has published numerous papers in the area of computational modeling of physical and chemical systems. Dr. Bolding has worked for a number of leading HPC companies, including Cray Research, SGI, Network Computing Services, Tera Computer Corporation, IBM and Cray Inc. Dr. Bolding understands HPC requirements and needs from customers in a wide range of segments, including government, higher education and commercial HPC markets. This diverse background allows Dr. Bolding to have a unique and balanced perspective on future systems development and how scientists, applications specialists, developers, and administrators use modern HPC systems and how customers weigh the performance and total cost of ownership against datacenter, engineering and business realities they face.

Dr. Rajendra Bose

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Dr. Rajendra (Raj) Bose, CASC Secretary for 2013, has been Manager of Research Computing Services (RCS) at Columbia University since 2009, serving as Columbia's research community liaison with central Information Technology groups. RCS coordinates shared, centrally-managed high-performance computing and secure research data systems, and helps to define strategies for social science research computing. Previously, Raj was Digital Initiatives Manager for the Center for Digital Research and Scholarship (CDRS) at Columbia, and was involved in the international Earth and space science informatics community. He was a postdoctoral research fellow at the United Kingdom

Digital Curation Center (DCC) at the University of Edinburgh from 2004-2007, and during 2007 was a visiting scientist at the Center for International Earth Science Information Network (CIESIN) at the Lamont Doherty Earth Observatory at Columbia. Raj received his Ph.D. in the area of environmental and Earth science informatics from the University of California at Santa Barbara, and has bachelors and masters degrees in engineering.

James R. “Jim” Bottum

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Jim Bottum is Vice Provost and Chief Information Officer at Clemson University, and has 25+ years of experience in the management and operation of HPC systems, facilities and staff. He has served as Executive Director of the National Center for Supercomputing Applications, Purdue University’s first Chief Information Officer, and Associate Director for the Supercomputing Centers Program at the National Science Foundation. Mr. Bottum is a nationally known leader in cyberinfrastructure. Since starting work at Clemson in 2006, he has been Principal Investigator (PI) or Co-PI on multiple federal awards totaling \$10.3M. Mr. Bottum is the founder of the newly formed Clemson University Center of Excellence in Next Generation Computing where faculty, staff, students, and industry are working together to build next generation technologies, applications and products. He is also the Inaugural Internet2 Presidential Fellow.

Dr. Christine Chalk

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Dr. Christine Chalk has worked for the Department of Energy's Office of Science for more than 12 years in a variety of policy positions. With a background in physics and economics, and experience on Capitol Hill, her current focus is on program evaluation and the societal impacts of basic research. She coordinated the Program Assessment Rating Tool activities for the Office of Science for FY04 and FY05.

Dr. Curtis Cole

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Dr. Curtis Cole is the Chief Information Officer for Weill Cornell Medical College where he is also an Associate Professor of Clinical Medicine and Public Health. He practices Internal Medicine at Weill Cornell Internal Medicine Associates at the New York Presbyterian Hospital. Dr. Cole was the acting co-Director of the Clinical & Translational Science Center Bioinformatics Core for the five years and now serves as an Associate Director. He is also an Associate Director of Cornell's Center for Healthcare Informatics and Policy.

As CIO, Dr. Cole is responsible for the Wood Library, the core IT infrastructure for Weill Cornell, the core software and web development groups, the user support organization, telephony, as well as the enterprise applications including ERP and EMR. Dr. Cole has led the development of Weill Cornell's data dictionary and terminology server called TruData© as well as the clinical data warehouse and i2b2 instance. He is currently leading the development of a novel clinical research data repository service and a complete refresh of institutional research and educational administrative systems. Dr. Cole has lead WCMC's NIH/NCRR funded implementation of VIVO, a semantic web based research profile system that links scientists' profiles across the globe. Outside of Cornell, Dr. Cole is on the board of the Citizens Union, a nonpartisan good government group committed to making democracy work for all New Yorkers.

Dr. Jim Davis

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Dr. Jim Davis is Vice Provost IT & Chief Academic Technology Officer - an executive leadership role with broad responsibilities focused on UCLA's academic research and education mission but building on his past position as Associate Vice Chancellor & CIO. Jim has responsibilities for the Institute for Digital Research and Education (IDRE), UCLA's institutional educational technology initiatives, as well as broad accountability for university-wide IT planning and strategic investment in academic and administrative operations and services. Included in his portfolio are UCLA's digital presence, cyberinfrastructure, high performance computing, informatics and networking, with their internal focus on research, education and cyber physical systems. Jim is a member of the University of California IT Leadership Council and a Board member on the Manufacturing Leadership Council. Jim is also a Professor in the Department of Chemical and Biomolecular Engineering at UCLA. Jim's research is in the area of data analysis, decision support, and intelligent systems. With over 25 years of experience in technology-based engineering research and application, he has been involved with research, development and deployment of information technology solutions in a variety of applications.

John Goodhue

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John Goodhue is the Executive Director of the Massachusetts Green High Performance Computing Center, a joint project between MIT, the University of Massachusetts, Boston University, Northeastern University, and Harvard University to build and operate a scientific computing center to support the growing demands of faculty-driven research. John is a business and technical leader with 30 years of experience in networking and high performance computing. He has held senior engineering management, general management, and technology leadership positions at established organizations such as Cisco and BBN, and has been on the early management teams for several startup companies. John holds a B.S. in Computer Engineering from the Massachusetts Institute of Technology.

Dr. Daron G. Green

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Dr. Green is the Senior Regional Manager of Microsoft Research Connections, responsible for the company's global research investments. Previously he was General Manager of Microsoft's Technology Policy Group, responsible for identifying business opportunities and innovations likely from potential disruptive technologies. In that role he provided oversight for key mechanisms for Microsoft's internal processes of innovation and ideation such as ThinkWeek and external efforts such as Microsoft's Cloud Research Engagements and Microsoft's Environmental Sustainability program. Prior to this he was responsible for General Manager for Microsoft Research's external engagement and investment strategy. With a global portfolio which included diverse topics such as Health and Wellbeing, Education and Scholarly Communications, Computer Science and the Environment. Dr. Green's initial research was in Chemical Physics (1989, Sheffield) and PhD in molecular simulation of fluid mixtures (1992, Sheffield). He went on to do post-doctoral research in simulation of polymer and protein folding (1993-4, UCD). Dr. Green was responsible for some of Europe's largest HPC Framework V programs for the European Commission, major HPC procurements in the UK for the UK Research Councils and UK Defense clients. He also led detailed investigations into the maturity and adoption for European HPC Software tools (published). From there Dr. Green went to work for the SGI/Cray – helping to set up the European Professional Services organization.

Dr. Susan K. Gregurick

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In July 2012, Dr. Susan K. Gregurick was selected to direct the NIH Division of Biomedical Technology, Bioinformatics, and Computational Biology (BBCB). Gregurick is a leader in computational biology who has held positions in both government and academia. From 2011-2012, Gregurick was acting director of the Biological Systems Science Division at the Department of Energy (DOE). She developed and managed DOE's Systems Biology Knowledgebase, which enables the integration of diverse data sets for modeling, simulation and experimental studies. Starting in 2007, Gregurick's other DOE activities included developing programs in modeling microbial function, metagenomic analysis from high-throughput sequencing and plant bioinformatics methods. She also oversaw bioinformatics and high-performance computing efforts at the DOE's Joint Genome Institute and Bioenergy Research Centers. Earlier in her career, Gregurick was a professor of computational biology at the University of Maryland, Baltimore County.

Gregurick earned a B.S. in chemistry from the University of Michigan, Ann Arbor, and Ph.D. in chemistry from the University of Maryland, College Park. She was a Lady Davis postdoctoral fellow at Hebrew University in Jerusalem and an Alfred P. Sloan/DOE fellow in computational biology at the University of Maryland. She has 41 peer-reviewed publications and has given more than 55 invited lectures on her research and programmatic activities.

Dr. Thomas J. Hacker

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Dr. Tom Hacker is an Associate Professor of Computer and Information Technology at Purdue University. Dr. Hacker's research interests center around high performance computing and networking at the operating system and middleware layers. Recently, his research has focused on cloud computing, cyberinfrastructure, scientific workflows, and data-oriented cyberinfrastructure. Dr. Hacker is also Co-Leader for Information Technology for the Network for Earthquake Engineering Simulation (NEES), which brings together researchers from fourteen universities across the country to share innovations in earthquake research and engineering.

Victoria Hamilton

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Victoria Hamilton created and directs the Office of Research Initiatives at Columbia University, reporting to the Executive Vice President for Research. This office works across disciplines, schools and campuses to foster interdisciplinary research collaboration, particularly among scientists, engineers and medical researchers. The office supports efforts to secure external funding for such collaborations, and administers a seed fund for very early stage research that falls outside the traditional boundaries. The office also focuses on helping plan and build research infrastructure.

Prior to joining Columbia in January of 2007, Ms. Hamilton was a principal of The Washington Advisory Group, consulting with both industry and non-profits on the intersection of scientific and technical research and commerce (1999 to 2006). Previously, she was Chief Operating Officer and Executive Vice President of General American Investors, a NYSE-listed closed end investment fund (1992-1998) and for 10 years, a senior member in SRK Management Company, a private venture capital firm (1982-1992). Ms. Hamilton holds a B.A. and an M.B.A. from Harvard University.

Nicole Hemsoth

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As Managing Editor, Ms. Hemsoth oversees all editorial operations, including managing all editors, guiding content direction and reader engagement, and ensuring editorial clarity, relevance and depth. Before assuming the role of Managing Editor for Tabor Communications, Nicole Hemsoth was responsible for several TCI publications, as both a managing editor and contributing editor. She has covered several major IT industry segments and verticals, established strategic relationships across the high performance computing, cloud, and big data industries, and was instrumental in driving the vision and direction for Tabor Communications' editorial.

Hemsoth migrated from the world of English Literature as an undergraduate (Ohio State University) into technology writing with her own tech-heavy marketing and writing firm before entering the fast-paced world of high performance computing and big data. She is currently based between the Research Triangle Park (RTP) area in Raleigh, North Carolina and Greensboro, North Carolina.

Dr. Farnam Jahanian

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Dr. Farnam Jahanian serves as the National Science Foundation Assistant Director for the Computer and Information Science and Engineering (CISE) Directorate. He guides CISE in its mission to uphold the nation's leadership in scientific discovery and engineering innovation through its support of fundamental research in computer and information science and engineering and transformative advances in cyberinfrastructure. Dr. Jahanian oversees the CISE budget of over \$850 million, directing programs and initiatives that support ambitious long-term research and innovation, foster broad interdisciplinary collaborations, and contribute to the development of a computing and information technology workforce with skills essential to success in the increasingly competitive, global market. He also serves as co-chair of the Networking and Information Technology Research and Development (NITRD) Subcommittee of the National Science and Technology Council Committee on Technology, providing overall coordination for the activities of 14 government agencies.

Over the last two decades at the University of Michigan, Dr. Jahanian led several large-scale research projects that studied the growth and scalability of the Internet infrastructure, which ultimately transformed how cyber threats are addressed by Internet Service Providers. He was recognized with an ACM SIGCOMM Test of Time Award in 2008, and was named Distinguished University Innovator at the University of Michigan (2009) and received the Governor's University Award for Commercialization Excellence (2005).

Dr. Jahanian holds a master's degree and a Ph.D. in Computer Science from the University of Texas at Austin. He is a Fellow of the Association for Computing Machinery (ACM), the Institute of Electrical and Electronic Engineers (IEEE), and the American Association for the Advancement of Science (AAAS).

Dr. Tim Kuhfuss

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Tim is currently the Director of Research Support at the University of Wyoming. In that role he is responsible for building and operating the University's cyber-infrastructure and assisting researchers in using National HPC resources. Previous to this position, Tim worked over 17 years at the Argonne National Laboratory where he held positions including Network Engineer, IT Division Director and CIO. Between careers at these two research institutions, Tim ran two managed services companies focusing on small to mid-sized companies. Tim's educational background includes advanced engineering and business degrees.

Robert Leland, Ph.D.

Senior Advisor for High Performance Computing
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Rob Leland is currently serving as Senior Advisor for High Performance Computing at the Office of Science and Technology Policy in the Executive Office of the President. Rob studied electrical engineering as an undergraduate at Michigan State University. He attended Oxford University as a Rhodes Scholar where he studied numerical analysis and computer science, completing a Ph.D. in mathematics in 1989. He joined Sandia National Laboratories in 1990 as a member of the research staff. In 1995 he served as a White House Fellow advising the Deputy Secretary of the Treasury on technology modernization at the IRS. Upon returning to Sandia in 1996 he held a series of management positions including Director of the Laboratory's IT operations and, most recently, Director of Computing Research and Director of Climate Security.

Dr. Cynthia R. McIntyre

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Dr. Cynthia R. McIntyre is Senior Vice President at the Council on Competitiveness, a non-partisan, non-governmental organization dedicated to developing public policy recommendations to enhance American competitiveness by creating new jobs in the U.S. At the Council, she has a proven track record of cultivating government and private industry collaborations to create new technology innovations. She was recognized by HPCwire as one of the People To Watch in 2013. During the past five years, she has lead the Council's High Performance Computing (HPC) Initiative, which involves helping develop policies that will enhance the use of HPC in the private sector for greater economic return and competitive advantage. As a result of these efforts, the Council was asked by the White House in 2010 to create and lead a Public-Private Partnership to help small- and medium-size manufacturers in the Midwest use HPC modeling and simulation. Dr. McIntyre is a theoretical condensed matter physicist and holds a Ph.D. from the Massachusetts Institute of Technology.

Dr. Tony Mezzacappa

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In 2012, Dr. Tony Mezzacappa, a leader in the field of astrophysics and supernova science, was named director of the Joint Institute for Computational Sciences (JICS) at UT and Oak Ridge National Laboratory (ORNL). At ORNL, Mezzacappa directed the Terascale Supernova Initiative for five years, leading the multi-million dollar, multi-year U.S. Department of Energy initiative involving several dozen researchers at a dozen institutions around the world. He has been involved in several community outreach efforts, including being a founding member of the Sequoyah Elementary Foundation and leading a major IT upgrade for Sequoyah Elementary School that saw Activboards installed in every classroom.

Dr. Jan Erik Odegard

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As the Executive Director of the Ken Kennedy Institute, Jan Odegard, supports computing and information technology research for over 145 faculty members at Rice University and a growing number of adjunct members from the Texas Medical Center. His core focus is on building strategic partnerships, incubating new cross-disciplinary research, and developing computing research infrastructure that leverages Rice's strengths in information technology and computing into accelerating computational science and engineering research. Beyond the core, he is also helping explore how information technology and computing can be leveraged into projects in non-traditional fields of scholarship.

Odegard co-edited Rice's roadmap for information technology, "Information Science and Technology as a Universal Enabler." He helped organize a CASC/ EDUCAUSE joint workshop and coauthored its report, "Developing a Coherent Cyberinfrastructure from Local Campus to National Facilities: Challenges and Strategies." Odegard is also co-author of the Campus Bridging Task Force report to the NSF-wide Advisory Committee for Cyberinfrastructure (ACCI).

Before joining Rice University, he was an associate professor in the Department of Electrical and Computer Engineering at the University of Stavanger, Norway, and served as Department Chair in 2000-2001. Odegard received his Ph.D. in electrical and computer engineering from Rice University, and his M.Sc. and B.S. in electrical engineering from Texas A&M University. In 1986, he received an associate degree in electrical engineering from Telemark College of Engineering, Porsgrunn, Norway.

Dr. Juan M. Sanchez

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Dr. Juan M. Sanchez is the Vice President for Research at The University of Texas at Austin and holder of the Temple Foundation Endowed Professorship #4 in the Department of Mechanical Engineering. He obtained his B.S. in Physics at the University of Cordoba, Argentina, 1971; M.S. in Material Science, 1974; and Ph.D. in Material Science, 1977 at the University of California, Los Angeles.

Dr. Sanchez is the author and co-author of more than 140 technical publications on a wide range of topics in materials science and engineering. His current research interests are in the electronic, thermodynamic and structural properties of materials including intermetallic compounds, magnetic and non-magnetic alloys, thin films and magnetic multilayers. His primary interest is the development and application of first principles computational methods for the construction of phase diagrams of multi-component material systems. Other research interests include the development of laser-controlled selective chemical vapor deposition processes for metals, alloys and ceramics.

Dr. David Scott

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Dr. David Scott is the Petascale Product Line Architect for Intel Corporation. He is responsible for formulating and driving Intel strategy for developing the technology needed for high end computing, including processors, platforms, interconnect, and software. He is Intel's interface to the programs around the world that are developing systems that scale to a Petaflop and beyond. Dr. Scott joined Intel in 1985, developing algorithms and math libraries for a sequence of distributed memory message passing computers, culminating in the first teraflop on the Linpack benchmark in 1996. He worked for five years in the Floating Point Center of Expertise, helping to improve floating-point design and validation for all of Intel's 32 and 64-bit processor projects. He spent three years in Singapore supporting High Performance Computing in the Asia-Pacific region, before returning to Oregon to take his current position in July 2006.

Dr. Pankaj Shah

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Dr. Pankaj Shah is the executive director of the Ohio Supercomputer Center (OSC) and Ohio Academic Resources Network (OARnet). For more than 25 years he has committed himself to the IT infrastructure and broadband initiatives through work in private, public, research and education community, identifying trends in high-speed data transfer, videoconferencing and hybrid networking. As a leader committed to bringing Ohio the best in supercomputing, networking and IT capabilities, Shah searches for ways to consolidate and standardize the organizations' shared services and expand their capabilities. Under Shah's leadership, OARnet has helped Ohio become a broadband state with an expansive network backbone and research and education services while partnering with private sector to create economic development opportunities.

Dr. John Towns

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Dr. John Towns is the Director of the Collaborative eScience Programs Office at NCSA. He is also the PI and Project Director for the Extreme Science and Engineering Discovery Environment (XSEDE) and leads other projects at NCSA. He has gained a broad view of the needs of computational and data-intensive science and engineering researchers through his key roles in policy and program development and implementation as part of several large-scale NSF projects, as well as his involvement in key activities at the University of Illinois. His background is in computational astrophysics, making use of a variety of computational architectures with a focus on application performance analysis. At NCSA, he provides leadership and direction in the support of an array of computational science and engineering research projects making use of advanced computing and

data resources. Towns plays significant roles in the deployment and operation of computational, data, and visualization resources, and Grid-related projects which embody the deployment of technologies and services to support the establishment of a distributed computing infrastructure.

Dr. Shaowen Wang

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Shaowen Wang is a Professor of Geography and Geographic Information Science (Primary), Computer Science, and Urban and Regional Planning at the University of Illinois at Urbana-Champaign (UIUC), where he is named a Centennial Scholar in the College of Liberal Arts and Sciences. He is also Associate Director for CyberGIS and a Senior Research Scientist of the National Center for Supercomputing Applications (NCSA), and Founding Director of the CyberGIS Center for Advanced Digital and Spatial Studies and CyberInfrastructure and Geospatial Information Laboratory. He holds affiliate appointments within UIUC's Computational Science and Engineering Graduate Program and Illinois Informatics Institute. His research and teaching interests center on three interrelated themes: computational theories and methods in geographic information science; advanced cyberinfrastructure and data-intensive computational science; and multi-scale geospatial problem solving and spatiotemporal synthesis. He has published a number of peer-reviewed papers including articles in more than 15 journals. He has served as an Action Editor of *GeoInformatica*, and guest editor or editorial board member for six other journals, book series and proceedings. He served on the University Consortium for Geographic Information Science Board of Directors from 2009 to 2012, and was appointed two terms as a Councilor of the Open Science Grid Consortium. He was a visiting scholar at Lund University sponsored by the National Science Foundation (NSF) in 2006 and NCSA Fellow in 2007, and received the NSF CAREER Award in 2009. He received his BS in Computer Engineering from Tianjin University in 1995, MS in Geography from Peking University in 1998, and MS of Computer Science and PhD in Geography from the University of Iowa in 2002 and 2004 respectively.

Dr. Srinivasan (Vasan) Yegnasubramanian

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Dr. Srinivasan (Vasan) Yegnasubramanian, is an Assistant Professor of Oncology and Director of the Next Generation Sequencing Center at the Sidney Kimmel Comprehensive Cancer Center in the Johns Hopkins University School of Medicine. His lab focuses on understanding the role of epigenetic and genetic alterations in establishing and driving neoplasia, and in exploiting this understanding to develop cancer biomarkers and therapeutic strategies. His lab has developed, refined, and/or implemented several approaches for global and high-resolution mapping of genetic and epigenetic DNA alterations in cancer genomes and for sensitive and specific detection of such alterations as cancer biomarkers. Additionally, Dr. Yegnasubramanian is helping to establish a Clinical Next Generation Sequencing laboratory with a focus in deploying next generation sequencing technologies for application in cancer clinical care.