

## Agenda for the NIST Data Science Symposium 2014

National Institute of Standards and Technology  
100 Bureau Drive, Gaithersburg, MD 20899  
Building 101, Red Auditorium

Day 1 - March 4, 2014

### Arrival

8:00	8:45	Check-in	(Administration Building 101)
		Poster-setup	(Hall of Flags)

### Welcome & Opening Remarks

		<b>John Garofolo</b> - Senior Advisor for Program Development, IAD (NIST)
8:45	9:00	<b>Charles Romine</b> - Director of the Information Technology Laboratory (NIST)

### The NIST Data Science Program and Symposium Objectives

9:00	9:15	<b>Ashit Talukder</b> - Chief, Information Access Division (NIST) <i>Overview of the NIST Data Science Program</i>
9:15	9:30	<b>Craig Greenberg</b> - Project Leader, Multimodal Information Group (NIST) <i>Overview of the NIST Data Science Evaluation and Metrology Plans</i>
9:30	9:40	Q&A Discussion

### Challenges and Gaps in Data Science Technologies

9:40	9:45	Session Introduction
9:45	10:00	<b>Doug Cutting</b> - Chief Architect (Cloudera) <i>Topic: Scalable Computing</i>
10:00	10:15	<b>Haesun Park</b> - Professor & Executive Director, Center for Data Analytics (Georgia Tech) <i>Data and Visual Analytics for Large Scale High Dimensional Data</i>
10:15	10:30	<b>Eric Frost</b> - Director, Viz Center (San Diego State) <i>Topic: Large-Scale Complex Visualisations</i>
10:30	10:45	<b>Pak Chung Wong</b> - Chief Scientist (Pacific Northwest National Laboratory) <i>Topic: Challenges in Very Large-Scale Visualization and Human-Computer Interaction</i>
10:45	11:00	Q&A Discussion
11:00	11:25	Break and Networking

### Data and Use Cases for Data Science Research

11:25	11:30	Session Introduction
11:30	11:45	<b>Jeanne Holm</b> - Evangelist (Data.gov) <i>Datasets that Enable Rigorous Data Science Research</i>
11:45	12:00	<b>Stanley Ahalt</b> - Director, Renaissance Computing Institute (University of North Carolina) Research Data Sets and Infrastructure: <i>The Challenge of Taming Research Data for Better Science</i>
12:00	12:15	<b>Thomas Karl</b> - Director, National Climatic Data Center (NOAA) <i>Climate Archives in NOAA: Challenges and Opportunities</i>
12:15	12:30	<b>Chelsey Richards</b> - Deputy Director for Public Health Scientific Services (CDC) <i>Topic: Health Data, Challenges and Opportunities</i>
12:30	12:45	Q&A Discussion

12:45 **John Garofolo** - Working Lunch Logistics

12:45 2:00 *Lunch: NIST cafeteria accepts cash or credit*

**Lecture Room B:** Focus Group on HCI and Data Science

**Lecture Room E:** Focus Group on Big Data Analytics for Smart Manufacturing Systems

**Portrait Room:** Focus Group for NIST Data Science Program plans

### Data Science Poster Session

2:00	3:25	Poster Presentations - Hall of Flags
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### Data Science Benchmarking and Measurement

3:25	3:30	Session Introduction
3:30	3:45	<b>Milind Bhandarkar</b> - Chief Scientist (Pivotal Software Inc.) <i>Deep Analytics Pipeline: A Benchmark Proposal</i>
3:45	4:00	<b>Shahram Ghandeharizadeh</b> - Associate Professor & Director Database Laboratory (University of South California) <i>Topic: Data Benchmarking</i>
4:00	4:15	<b>Shashi Shekhar</b> - Professor (University of Minnesota) <i>Topic: Spatial Data Mining and Spatial Data Benchmarking</i>
4:15	4:30	<b>Volker Markl</b> - Professor and Chair of The Database Systems & Information Management Group (TU Berlin) <i>Data Science Research from the Database Management Systems Perspective</i>
4:30	4:45	<b>Michael Hurley</b> - Technical Staff (MIT Lincoln Laboratory) <i>Information Theoretic Evaluation of Data Processing Systems</i>
4:45	5:00	Q&A Discussion

5:00 **John Garofolo** - Brief wrap-up and adjourn

## Agenda for the NIST Data Science Symposium 2014

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Day 2 - March 5, 2014

### Arrival

8:00	9:00	Check-in	(Administration Building 101)
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### Keynote Address

		<b>Charles Romine</b> - Director of the Information Technology Laboratory (NIST) <i>Welcome and Introductions</i>
9:00	9:30	<b>Dr. Francine Berman</b> - Chair, Research Data Alliance / U.S. Edward P. Hamilton Distinguished Professor in Computer Science Director, Center for a Digital Society, Rensselaer Polytechnic Institute
9:30	9:45	Q&A Discussion

### Breakout Sessions

9:45		<b>Mark Przybocki</b> - Group Leader, Multimodal Information Group (NIST) <i>Breakout Instructions</i>
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10:00	11:30	Breakouts  <i>Data Science Benchmarking &amp; Performance Measurement</i> <b>Craig Greenberg</b> (Chair) Portrait Room
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		<i>Datasets and Use Cases for Data Science Research</i> <b>Ashit Talukder</b> (Chair) Green Auditorium
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		<i>Challenges and Gaps in Data Science Technologies</i> <b>John Garofolo</b> (Chair) Red Auditorium
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11:30		<b>John Garofolo</b> - Working Lunch Logistics
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11:30	1:00	<i>Lunch and Focused Topic Working Lunches</i>
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		<b>Lecture Room E: Focus Group on Uncertainty Quantification for Experimental Data</b>
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**Government Data Science R&D Panel**

1:00 2:45 **Christopher White** - Program Manager, XDATA Program (DARPA)  
**Jason Matheny** - Program Manager, Open Source Indicators (OSI) Program (IARPA)  
**Kenneth Rice** – Chief, ISR Integration Division (NGA)  
**Lucy Nowell** - Program Manager, Advanced Scientific Computing Research (DOE)  
**Mike Huerta** - Associate Director, US National Library of Medicine (NIH)  
**Stephen Dennis**- Innovation Director (HSARPA)  
**Xiaoming Huo** - Program Director (NSF)

2:45 3:00 Q&A Discussion

3:00 3:15 Break

**Breakout Reports**

3:15 3:25 Data Science Benchmarking & Performance Measurement

3:25 3:35 Datasets and Use Cases for Data Science Research

3:35 3:45 Challenges and Gaps in Data Science Technologies

3:45 3:55 Focus Group: Uncertainty Quantification for Experimental Data (**Anne Plant**)

3:55 4:05 Focus Group: HCI and Data Science (**Sharon Laskowski**)

4:05 4:15 Focus Group: Big Data Analytics for Smart Manufacturing Systems (**Sudarsan Rachuri**)

4:15 4:30 Discussion & Next Steps; Facilitator: **Ashit Talukder**