

Participant roster for the 2014 Teaching Science of Information Workshop August 6-7, UC-San Diego

First Name	Middle Name	Last Name	Email Address	Academic Status	Affiliation	Department	Research Interest
Dianna		Xu	dxu@cs.brynmawr.edu	Faculty	Bryn Mawr College	Computer Science	Computational Geometry and Topology
Deepak		Kumar	dkumar@cs.brynmawr.edu	Faculty - Speaker	Bryn Mawr College	Computer Science	Science of Information
Pulkit		Grover	pulkit@cmu.edu	Faculty - Speaker	Carnegie Mellon University	Electrical & Computer Engineering	Science of information for computation; fundamental limits on energy of communication and Big Data computing; low energy neural circuits.
Michael	David	Westmoreland	westmoreland@denison.edu	Faculty	Denison University	Mathematics and Computer Science	Quantum Information Theory
Paul		Ruvolo	Paul.Ruvolo@olin.edu	Faculty	Olin College of Engineering	Engineering	Machine learning as applied to various sensory and motor problems in robotics.
Karen		Watanabe	watanabk@ohsu.edu	Faculty	Oregon Health & Science University	Environmental and Biomolecular Systems	Mathematical/computational modeling of biological systems; computational toxicology
Brent	Thomas	Ladd	laddb@purdue.edu	Staff	Purdue University	CSol/Computer Science	Education
Mike		Atwell	maatwell@purdue.edu	Staff	Purdue University	Center for Science of Information	user interface, web programming
Yosi		Shibberu	shibberu@rose-hulman.edu	Faculty	Rose-Hulman Institute	Math	I am interested in bioinformatics and the application of information theory to biology. More generally, I am interested data mining methods for large and complex data sets.
Zhiying		Wang	zhiyingw@stanford.edu	Postdoc - Speaker	Stanford University	CSol/EE	Coding for information storage, compression for genomic data in cloud.
Alex		Sprintson	spalex@tamu.edu	Faculty	Texas A&M University	Electrical and Computer Engineering	Network Algorithms, Network Coding, Software-defined networks, Support for Quality of Service
Juan	Guillermo	Lalinde	jlalinde@eafit.edu.co	Faculty	Universidad EAFIT	Computer Science	Datamining, Big Data, analysis of algorithms and Information theory
Francesca		Guerra	guerra@ucsc.edu	Lecturer, with Continuing Appointment, MA, PhD,	University of California, Santa Cruz	Sociology	In 2010, I completed a MLIS with specializations in academic research libraries and archival studies, digital preservation and metadata and online teaching/learning management systems at

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				MLIS			the School of Library and Information Science, San José State University, San José, CA. Last spring (2013) I attended a competitive National Science Foundation (NSF) Faculty Training Institute that focused on Science, Technology, Engineering, and Math (STEM) principles. I also have a MA and a PhD in sociology and I regularly teach courses on statistics (and recently started introducing students to "R"), quantitative and qualitative research methods, and the history of eugenics and disability rights (in addition to courses on media/social media, visual culture, and social justice).
Mequanint	A.	Moges	mmoges@uh.edu	Faculty	University of Houston	Engineering Technology	My research topic includes: <ol style="list-style-type: none"> 1. Study of Wireless Sensor Networks for Measurement and Data Reporting, 2. Study of Grid Computation, 3. Development of Integrated Scheduling Algorithm for Distributed Mobile Sensor Network and 4. Research on Undergraduate Education Improvement
Wenjing		Rao	wenjing@uic.edu	Faculty	University of Illinois at Chicago	ECE	Computer engineering, Reliability, Computer Aided Design, Novel Computation Paradigms in emerging nanoelectronic systems, Defect and Fault Tolerance, VLSI test
Matthew		Wright	mlwright@ima.umn.edu	Postdoc	University of Minnesota	Institute for Mathematics and its Applications	My primary research area is applied and computational topology. In particular, I am interested in topological methods of data analysis. One branch of my research seeks to apply topological tools (primarily Euler characteristic and Euler integrals) to solve problems in image processing and texture analysis. This work also involves perspectives from stochastic and integral

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							geometry. I am also working on a project in the area of multidimensional persistent homology that has promising applications in the analysis of large, high-dimensional data sets. My collaborator and I are building a software tool that will provide visualizations of multidimensional persistent homology for such data sets. This work involves developing mathematical and algorithmic techniques. The project combines algebraic topology with computational geometry and computer science.
Shan		Suthaharan	s_suthah@uncg.edu	Faculty	University of North Carolina at Greensboro	Computer Science	Machine learning and Big Data, and their application to network security, computer vision and signal processing.
Anil		Bamezai	anil.bamezai@villanova.edu	Faculty	Villanova University	Biology	Cell signaling
Haiyan		Cheng	hcheng@willamette.edu	Faculty	Willamette University	Computer Science	Immune system Scientific computing, uncertainty quantification, data assimilation