



Stanford Data Science Initiative 2015 Retreat Agenda

MONDAY OCTOBER 5 ROSEWOOD SAND HILL, MENLO PARK		
6:00 pm	Welcome Reception Begins	
8:00 pm	Welcome Reception Ends	
TUESDAY OCTOBER 6 QUADRUS CONFERENCE CENTER, MENLO PARK		
8:30 am	Registration and Continental Breakfast	
9:00 am	Welcome and Introduction	Steve Eglash , Executive Director, Stanford Data Science Initiative Hector Garcia-Molina , Professor, Computer Science & Electrical Engineering
9:15 am	Data Science for Personalized Health	David Tse , Professor, Electrical Engineering
9:55 am	Mapping the Social Genome	Michael Bernstein , Assistant Professor, Computer Science
10:35 am	Break	
11:05 am	Open Info Processing Systems, A New Frontier	Vishal Sikka , CEO, Infosys
11:25 am	Panel: Predictive Analytics in Healthcare	Moderator: Nigam Shah , Assistant Professor, Medicine - Biomedical Informatics Research Panelists: David Tse , Professor, Electrical Engineering Ed Chang , President, HTC Health Andrea Montanari , Associate Professor, Electrical Engineering & Statistics Ravi Mhatre , Partner, Lightspeed Venture Partners
12:25 pm	Lunch	
1:30 pm	DeepDive—A High-Performance Inference and Learning Engine	Christopher Ré , Assistant Professor, Computer Science
2:10 pm	Secure Analytics on the Internet of Things	Philip Levis , Associate Professor, Computer Science & Electrical Engineering
2:50 pm	Break	
3:20 pm	Panel: Data Center Infrastructure (Hardware and Software) for Big Data Analytics	Moderator: Kunle Olukotun , Professor, Computer Science & Electrical Engineering Panelists: Luiz Barroso , Fellow, Google Eric Sedlar , Vice-President & Technical Director, Oracle Labs Philip Levis , Associate Professor, Computer Science & Electrical Engineering Pankaj Mehra , Senior Fellow (Technology Strategy), SanDisk Ted Willke , Senior Principal Engineer, Intel Labs
4:20 pm	Poster Preview Presentations	<i>See attached list of poster presenters</i>
4:45 pm	Poster Viewing with Wine & Cheese Reception	
6:00 pm	Retreat Ends	



Stanford Data Science Initiative 2015 Retreat Posters

	AUTHORS	TITLE
1	Phil Marshall ^{1,2} Spencer Everett ^{3,2} Risa Wechsler ^{1,2} Matt Becker ¹ ¹ Kavli Institute for Particle Astrophysics and Cosmology, Stanford University ² SLAC National Accelerator Laboratory ³ De Paul University, Chicago	Pangloss: Inferring the Mass Map of the Observable Universe from 10 Billion Galaxies
2	Jaeho Shin ¹ , Sen Wu ¹ , Feiran Wang ¹ , Christopher De Sa ¹ , Ce Zhang ² , Christopher Ré ¹ ¹ Stanford University ² University of Wisconsin-Madison	Incremental Knowledge Base Construction Using DeepDive
3	Mohsen Bayati, Sonia Bhaskar, and Andrea Montanari	A Low Cost Method for Multiple Disease Screening
4	Emile Richard, Georges Goetz, E.J. Chichilnisky	Recognizing Retinal Ganglion Cells in the Dark
5	Mikel Hernaez ¹ , Idoia Ochoa ¹ , Rachel Goldfeder ² , Tsachy Weissman ¹ , Euan Ashley ² ¹ Department of Electrical Engineering, Stanford University ² Department of Cardiovascular Medicine, Stanford School of Medicine	Denosing the Quality Scores of Genomic Data
6	Gregory McInnes, Cuiping Pan, Nicole Deflaux, Denis Salins, Samuel Gross, Elmer Garduno, Isaac Liao, Alicia Deng, Shannon Rego, Michael Snyder, Jonathan Bingham, Somalee Datta, David Glazer, Philip Tsao	Interactive Cloud-Based Analytics for Large Scale Genomic Data
7	Joshua W. Knowles, Kate Niehaus, Juan Banda, Nigam Shah	Electronic Phenotyping and Machine Learning to Identify Familial Hypercholesterolemia Patients in EHRs

	AUTHORS	TITLE
8	<p>Eran Bendavid ¹, Sze-chuan Suen ², and Sanjay Basu ³</p> <p>¹ Center for Primary Care & Outcomes Research, Stanford University</p> <p>² Department of Management Science & Engineering, Stanford University</p> <p>³ Stanford Prevention Research Center, Stanford School of Medicine</p>	Food Price Fluctuations and Child Mortality in Sub-Saharan Africa
9	<p>Farzan Farnia ¹, Tejaswini Mishra ², Meisam Razaviyayn ¹, Rui Chen ², David Tse ¹, Michael Snyder ²</p> <p>¹ Department of Electrical Engineering, Stanford University</p> <p>² Department of Genetics, Stanford University School Of Medicine</p>	Personalized Disease Prediction Using Multi-Omics Data
10	<p>Denis Salins ¹, Jessilyn Dunn ^{1,2}, Xiao Li ¹, Dalia Perelman ¹, Heather Hall ¹, and Michael Snyder ¹</p> <p>¹Michael Snyder Lab, Stanford University, ²Mobilize Center, Stanford University</p>	Wearable Devices for Physical and Physiological Monitoring
11	<p>Michael Kagan ¹, Carolyn Kim ², Lester Mackey ², Benjamin Nachman ¹, Luke de Oliveira ³, and Ariel Schwartzman ¹</p> <p>¹ SLAC National Accelerator Laboratory, Stanford University</p> <p>² Statistics Department, Stanford University</p> <p>³ ICME, Stanford University</p>	Physics Event Reconstruction at the Large Hadron Collider