



ISTC CLOUD COMPUTING RETREAT

August 26 - 28

AGENDA

Wednesday, August 26, 2015

Optional Event - Pre-retreat dinner

Golden Valley Brewery, 1520 NW Bethany Blvd, Beaverton, OR

6:00 pm – 8:30 pm Dinner

Thursday, August 27, 2015

Event Location

JF1 Presentation Room, Intel, 2111 NE 25th Ave, Hillsboro, Oregon

- 8:30 am – 8:55 am Continental breakfast / Registration
- 8:55 am – 9:00 am Welcome
Jeff Parkhurst (Intel University Collaboration Office, ISTC-CC Program Director)
- 9:00 am – 9:15 am Opening Remarks
Rich Uhlig (Intel Labs, Executive Sponsor for ISTC-CC, Intel Fellow)
- 9:15 am – 10:00 am Center Overview
Greg Ganger (CMU-PI) / **Phil Gibbons** (Intel-PI)
- 10:00 am – 11:00 am Research Talks session #1

Garth Gibson (CMU)
“Filesystems for Exascale Storage”

Hyeontaek Lim (CMU grad student), **Ren Wang** (Intel Labs, SSR/NPL),
Michael Kaminsky (Intel Labs, ISTC-CC, Research Scientist)
“Scaling Up Clustered Network Appliances with ScaleBricks”
- 11:00 am – 11:15 am *Break*
- 11:15 am – 12:05 pm Research Talks session #2

Eric Xing (CMU)
“System Support for Diverse ML Styles”

Naila Farooqui (Georgia Tech grad student)
“Software Specialization for Heterogeneous Computing Resources”
- 12:05 pm – 12:35 pm Keynote Talk #1
Introduced by **Michael Kozuch** (Intel Labs, ISTC-CC, Principal Engineer)

Nick Weaver (Intel Data Center Group/Cloud Platform Group, SW Engineering Manager)
“Data Center Needs for Next-generation Computing”

12:35 pm – 1:05 pm *Lunch*

1:05 pm – 2:20 pm Research Talks session #3

Guy Blelloch (CMU)
“Lightweight Processing on Compressed Graphs”

Rachit Agarwal (UC Berkeley post doc)
“Succinct: Enabling Queries on Compressed Data”

Calton Pu (Georgia Tech)
“Highlights from Georgia Tech”

2:20 pm – 2:45 pm *Break / Group Photo*

2:45 pm – 3:35 pm Research Talks session #4

Carlos Guestrin (U. Washington)
“GraphLab: What’s New and What’s Next”

Kayvon Fatahalian (CMU)
“Cloud Computing Needs for Large-scale Visual Computing”

3:35 pm – 4:00 pm Short Research Talks (5 minutes each)

Liting Hu (Georgia Tech grad student)
“ELF: Efficient Lightweight Fast Stream Processing at Scale”

Neeraja Yadwadkar (UC Berkeley grad student)
“Wrangler: Predictable and Faster Jobs in Distributed Processing Systems using Machine Learning”

Timmy Zhu (CMU grad student)
“PriorityMeister: Tail Latency QoS for Shared Network Storage”

Ankur Dave (UC Berkeley grad student)
“The Latest on GraphX: Graph Analytics in Spark”

Sheng Li (Intel Labs, SSR/PCL)
“Architecting to Achieve a Billion Requests per Second Throughput on a Single Key-value Store Server Platform”

4:00 pm – 4:15 pm Poster Previews (30 seconds each)
Chaired by **Babu Pillai** (Intel Labs, ISTC-CC, Research Scientist)

4:15 pm – 5:30 pm Poster Session

5:30 pm Reception / Dinner

Friday, August 28, 2015

Event Location

JF1 Presentation Room, Intel, 2111 NE 25th Ave, Hillsboro, Oregon

8:30 am – 8:50 am Continental Breakfast

8:50 am – 9:00 am	Welcome Scott Hahn (Intel Labs, Managing Sponsor for ISTC-CC, Principal Engineer)
9:00 am – 9:15 am	Forward Looking Remarks Mike Mayberry (Intel New Technology Group, Corporate Officer, Head of Intel Labs)
9:15 am – 9:45 am	Keynote Talk #2 Valerie Young (Intel Data Center Group/Network Platforms Group, Technical Mkt Engineer) “Near-edge Computing: Enabling Interactive Cloud Computing”
9:45 am – 10:10 am	Research Talks session #5 Mahadev Satyanarayanan (CMU) “What is Edge Computing Good For?”
10:10 am – 10:25 am	<i>Break</i>
10:25 am – 11:40 am	Research Talks session #6 Ion Stoica (UC Berkeley) “Spark: What’s New and What’s Next” Vivek Seshadri (CMU grad student) “Can DRAM Do More Than Just Store Data?” Greg Ganger (CMU) “Scheduling Heterogeneous Resources in Cloud Datacenters”
11:40 am – noon	All-hands Brainstorming Moderated by Jeff Parkhurst (Intel University Collaboration Office, ISTC-CC Program Director)
noon	Conclusion of retreat for all but BoA and Intel Stakeholders

BoA / Intel:

Event Location

JF1-108, Intel, 2111 NE 25th Ave, Hillsboro, Oregon

noon – 2:15 pm	Board of Advisors meeting (includes Lunch)
2:15 pm – 3:00 pm	Intel-only Strategy meeting (All Intel stakeholders invited)