

Stanford Data Science Initiative 2016 Retreat

QUADRUS CONFERENCE CENTER, MENLO PARK, CALIFORNIA

TUESDAY OCTOBER 11, 2016

8:00am	Breakfast and registration	
DeepDive Session		
9:00am	Welcome	
9:10am	Dark data systems	Christopher Ré , <i>Assistant Professor in Computer Science</i>
9:30am	Mining text for drug repurposing: constructing a biomedical relationship database from literature using DeepDive	Emily Mallory , <i>PhD Candidate in Biomedical Informatics</i>
9:50am	Extracting patient-reported pain from clinical notes using programming	Alison Callahan , <i>Research Scientist in Center for Biomedical Informatics</i>
10:10am	Break	
10:40am	Lightweight information extraction using data programming	Alex Ratner , <i>PhD Candidate in Computer Science</i>
11:15am	Weak supervision regimes: leveraging structured resources in data programming	Jason Fries , <i>Postdoctoral Researcher in Computer Science</i>
11:35am	Industry comments, questions, and discussion	
12:00pm	Lunch	
Natural Language Processing Session		
1:30pm	Welcome	
1:40pm	Natural language processing for studying innovation over time	Dan Jurafsky , <i>Professor and Chair of Linguistics; Professor of Computer Science</i>
2:05pm	Observing cultural exchange across linguistic and geographic boundaries in social media	David Jurgens , <i>Postdoctoral Researcher in Computer Science</i>
2:25pm	Thinking on your feet: Decision-making in incremental question answering	He He , <i>Postdoctoral Researcher in Computer Science</i>
2:45pm	Break	
3:15pm	Natural language processing	Christopher Manning , <i>Professor of Linguistics; Professor of Computer Science</i>
3:40pm	Neural text summarization	Urvashi Khandelwal , <i>PhD Candidate in Computer Science</i>
3:55pm	Large-scale analysis of counseling conversations: an application of natural language processing to mental health	Kevin Clark , <i>PhD Candidate in Computer Science</i>
4:10pm	Industry comments, questions and discussion	
Poster Session		
4:30pm	Poster preview presentations Poster viewing Cocktails and reception	

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WEDNESDAY OCTOBER 12, 2016

8:00am	Breakfast and registration	
	Machine Learning Session	
9:00am	Welcome	
9:10am	Provenance and contracts in machine learning	Percy Liang , <i>Assistant Professor in Computer Science</i>
9:30am	Random projections for probabilistic modeling and inference	Stefano Ermon , <i>Assistant Professor in Computer Science</i>
9:50am	When your big data seems too small: accurate inferences beyond the empirical distribution	Greg Valiant , <i>Assistant Professor in Computer Science</i>
10:10am	A new DAWN for analytics	Peter Bailis , <i>Assistant Professor in Computer Science</i> Matei Zaharia , <i>Assistant Professor in Computer Science</i>
10:30am	Break	
11:00am	Fast stochastic algorithms for data analytics on parallel hardware	Chris De Sa , <i>PhD Candidate in Computer Science</i>
11:20am	An expert system for the cloud infrastructure	Balaji Prabhakar , <i>Professor in Electrical Engineering; Professor in Computer Science</i>
11:40am	Industry comments, questions, and discussion	
12:00pm	Lunch	
	Using Data Science to Understand People, Places, and Content	
1:30pm	Welcome	
1:40pm	Social networks: people, places and content	Jure Leskovec , <i>Associate Professor in Computer Science</i>
2:05pm	Enculturation trajectories and individual attainment: an interactional language use of model cultural dynamics in organizations	Christopher Potts , <i>Professor of Linguistics</i>
2:30pm	Predicting psychological traits from social network data	Michal Kosinski , <i>Assistant Professor of Organizational Behavior</i>
2:55pm	Break	
3:25pm	Can anyone become a troll?	Justin Cheng , <i>Phd Candidate in Computer Science</i>
3:50pm	Computational social science	Jeff Hancock , <i>Professor of Communication</i>
4:15pm	Industry comments, questions and discussion	
4:45pm	Retreat ends	