



Center for Predictive Computational Phenotyping

Fourth Annual Retreat

May 31, 2018

DeLuca Forum, The Discovery Building

- 8:00 – 8:30 continental breakfast and registration
- 8:30 – 8:40 *Welcome*
Mark Craven, Professor, Dept. of Biostatistics & Medical Informatics
Director, CPCP
- 8:40 – 10:15 *Data Management Lab, Neuroimage-Based Phenotyping Project, Value of Information Lab: entity and text matching, assembling data science pipelines, preclinical Alzheimer's disease, multiscale factorization, graph-based regularization*
AnHai Doan, Professor, Dept. of Computer Sciences
Jignesh Patel, Professor, Dept. of Computer Sciences
Rogers Jeffrey Leo John, Graduate Student, Dept. of Computer Sciences
Vamsi Ithapu, Research Scientist, Oculus Research
Rebecca Willett, Associate Professor, Dept. of Electrical and Computer Engineering
- 10:15 – 11:15 poster session
- 11:15 – 11:45 *Institute for Foundations of Data Science, Data Science Hub*
Stephen Wright, Professor, Dept. of Computer Sciences
Brian Yandell, Professor, Dept. of Statistics
- 11:45 – 12:25 *Phenotype Models for Breast Cancer Project, Transcriptome-based Cellular Phenotyping Project: breast cancer screening, mining large sequence repositories, metadata mapping, RNAseq analysis*
Elizabeth Burnside, Professor, Dept. of Radiology
Matthew Bernstein, Graduate Student, Dept. of Computer Sciences
- 12:25 – 1:20 lunch

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- 1:20 – 2:40 *Epigenome-based Phenotyping Project, Stochastic Modeling Lab*: predicting long-range regulatory interactions, large-scale regulatory SNP characterization
Brittany Baur, Postdoctoral Associate, Wisconsin Institute for Discovery
Sunduz Keles, Professor, Dept. of Biostatistics & Medical Informatics
Ye Zheng, Graduate Student, Dept. of Statistics
Michael Newton, Professor, Dept. of Biostatistics & Medical Informatics
- 2:40 – 3:40 poster session
- 3:40 – 5:00 *Computational Drug Screening Project, EHR-based Phenotyping Project, Value of Information Lab*: deep learning, drug candidate screening, drug repositioning, adverse event detection, predicting asthma exacerbations, active learning
Anthony Gitter, Assistant Professor, Dept. of BMI, Morgridge Institute
Charles Kuang, Graduate Student, Dept. of Computer Sciences
Akshay Sood, Graduate Student, Dept. of Computer Sciences
Ervin Tanczos, Postdoctoral Associate, Wisconsin Institute for Discovery
- 5:00 – 5:10 *Closing Comments*
Michael Newton, Professor, Dept. of Biostatistics & Medical Informatics
Associate Director, CPCP
- 5:10 – 6:30 reception