



# Center for Predictive Computational Phenotyping

Third Annual Retreat

June 1, 2017

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 – 9:20 *Phenotype Models for Breast Cancer Screening:*  
*multi-modal screening, structured sparsity*  
Beth Burnside, Professor, Dept. of Radiology  
Ming Yuan, Professor, Dept. of Statistics and Morgridge Institute
- 9:20 – 10:20 *EHR-based Phenotyping:*  
*drug ontology integration, adverse event detection, privacy-preserving mining*  
Peggy Peissig, Director, Biomedical Informatics Research Center  
Marshfield Clinic Research Foundation  
David Page, Professor, Dept. of Biostatistics & Medical Informatics  
Irene Giacomelli, Postdoctoral Fellow, Dept. of Computer Sciences
- 10:20 – 11:20 poster session
- 11:20 – 12:20 *Neuroimage-based Phenotyping:*  
*Alzheimer's screening, brain connectivity analysis, adaptive study design, gaze tracking*  
Barbara Bendlin, Associate Professor, Dept. of Medicine  
Won Hwa Kim, Graduate Student, Dept. of Computer Sciences  
Vikas Singh, Associate Professor, Dept. of Biostatistics & Medical Informatics

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- 12:20 – 1:20 lunch
- 1:20 – 2:20 *Cellular Phenotyping and Drug Discovery:*  
data integration, ranking, deep learning, high-throughput computing  
Scott Wildman, Associate Scientist, UW Small Molecule Screening Facility  
Michael Newton, Professor, Dept. of Biostatistics & Medical Informatics  
AnHai Doan, Professor, Dept. of Computer Sciences  
Moayad Alnammi, Graduate Student, Dept. of Computer Sciences  
Spencer Ericksen, Assistant Scientist, UW Small Molecule Screening Facility
- 2:20 – 3:20 poster session
- 3:20 – 4:40 *Transcriptome-based and Epigenome-based Phenotyping:*  
augmenting GWAS and eQTL studies, epigenomics in development and disease,  
mapping RNAseq metadata, single-cell RNAseq analysis  
Christina Kendziorski, Professor, Dept. of Biostatistics & Medical Informatics  
Matt Bernstein, Graduate Student, Dept. of Computer Sciences  
Sunduz Keles, Professor, Dept. of Biostatistics & Medical Informatics  
Sushmita Roy, Assistant Professor, Dept. of Biostatistics & Medical Informatics
- 4:40 – 4:50 *Closing Comments*  
Michael Newton, Professor, Dept. of Biostatistics & Medical Informatics  
Associate Director, CPCP
- 5:00 – 6:00 reception