Gobind Singh

CONTACT INFORMATION

BioEngineering Department
University of Illinois at Chicago

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RESEARCH INTERESTS

Clinical Informatics- ensemble theory, bayesian methods
Protein Folding- control theory, dynamical systems

EDUCATION

University of Illinois at Chicago

PhD BioEngineering **tbd**

MS Bioinformatics **May 2014**

- Advisors: Dr Hui Lu, Dr Boaz Avitall
- thesis defense: January 2014

University of Illinois

BSc Physiology **May 1998**

PUBLICATIONS PRESENTATIONS

"Reduction of Alert Fatigue with Decision Analysis Using Boosting Dynamics and Bayesian Methods", *to submit.*

"Data Mining and Clinical Alert Monitoring", *UIC Research Forum, 2012.*

"Using the Dynamics of Boosting in Clinical Informatics", *UCLA MUCMD Conference 2012.*

"SQRL: A hybridized Spectral Clustering and Linear Quadratic Regulator for protein secondary structure prediction", *to submit.*

WORK EXPERIENCE

University of Illinois at Chicago

protein folding: Hui Lu, PhD **2011-2012**

- explored machine learning and control theory
- generated folding trajectories using analytic technique
- implemented a dynamic spectral clustering algorithm
- seeking to improve secondary structure prediction

telehealth study: Boaz Avitall MD,PhD **2007-2010**

- hardware and server maintenance
- developed boosting technique for improved alert detection
- applying bayesian model for decision analysis

teaching assistant: Simon Alford, PhD **2006-2007**

- biochemistry
- hour-long class for lecture and quizzes
- office hours for student question

University of Chicago

lab technician Sangram Sissodia, PhD **2001-2003**

- Alzheimer's research
- genotyping mouse colony; database maintenance

lab technician Francis McMahon, MD **2000-2001**

- bipolar disease research
- statistical analysis, linkage disequilibrium

PROGRAMMING

javascript, python, R/bioconductor, linux