# Gobind Singh

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| CONTACT INFORMATION | BioEngineering Department University of Illinois at Chicago |

web: ansatz.github.io
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RESEARCH INTERESTS

Clinical Informatics- bayesian decision analysis, machine learning

EDUCATION

**University of Illinois at Chicago**

*MS Bioinformatics* **Dec 2014**

- Advisors: Dr Hui Lu, Dr Boaz Avitall

**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.*

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, linux