Subhodeep Moitra

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Website: www.cs.cmu.edu/~subhodee

EDUCATION Carnegie Mellon University, Pittsburgh, PA

PhD in Language Technologies, School of Computer Science (2011-current) Thesis Area: Feature Learning and Graphical Models for Protein Sequences

www.cs.cmu.edu/~subhodee/thesis/proposal.pdf

Advisor: Dr Christopher James Langmead

Carnegie Mellon University, Pittsburgh, PA

MS in Language Technologies, School of Computer Science (2009-2011)

National Institute of Technology, Trichy, India

BTech in Computer Science (2005-2009)

SKILLS Languages: C, Java, Python, R, Matlab

Operating Systems: Windows, *NIX platforms

LINKS Github - github.com/smoitra87

Website - www.cs.cmu.edu/~subhodee

EXPERIENCE Google, Mountain View, CA

Summer 2014

Software Engineering Intern

Worked in the Google Genomics team to develop an open source Java tool for detecting denovo variants in a family trio upon the Google Genomics API www.github.com/googlegenomics/denovo-variant-caller-java

Microsoft Research, Bellevue, WA

Fall 2011

Researcher

Worked with Bing Document Understanding Team to help improve search ranking results using Topic Models. Focus was on scaling up using Map-Reduce.

Institut National de Recherche, Rennes, France

Summer 2008

Research Programmer

Implemented Statistical algorithms for damage detection in civil structures in Scilab. Dealt with optimal sensor placement for monitoring structural health of buildings.

PUBLICATIONS S. Moitra, K. Tirupula, J. Klein-Seetharaman and C.J. Langmead "A minimal ligand binding pocket within a network of correlated mutations identified by multiple sequence and structural analysis of G protein coupled receptors" - BMC Biophysics 2012, 5:13

> S. Moitra, N. Yanamala, O. Tastan, I. Singh, C. J. Langmead and J. Klein-Seetharaman "Analogies between Structural and Systems Biology and Systems Engineering in Dynamic Environments" - IEEE SoSE 2010 Conference on System of Systems, UK

> N.S. Razavian, S. Moitra, H. Kamisetty, A. Ramanathan, C.J. Langmead - "Time-Varying Gaussian Graphical Models of Molecular Dynamics Data "- Proceedings of 3DSIG 2010 Structural Bioinformatics and Computational Biophysics, Boston, USA

LANGUAGES

English, Hindi, Bengali, Tamil, French (Beginner), German (Beginner), Spanish (Beginner)