

KAMIYA MOTWANI

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EDUCATION

University of Wisconsin-Madison

M.S. in Computer Science

[Aug 2009 -Present]

CGPA : 3.75/4.0

Birla Institute of Technology & Science, Pilani - India

B.E. (Hons.) - Computer Science

[Aug 2005 - June 2009]

CGPA : 9.24/10.0

COURSE WORK

Fall 2010 (ongoing)

Machine Learning, Linear Programming Methods

Spring 2010

Advanced Natural Language Processing,
Information Extraction (Data Models and Languages)

Fall 2009

Introduction to Artificial Intelligence, Computer Vision

EXPERIENCE

Research Assistant, University of Wisconsin Madison, WI

[Aug 2009 -Dec 2010]

Advisor: Prof. Vikas Singh, Dept. of Computer Sciences, UW-Madison

My research topics in Computer Vision and Machine Learning include Image co-segmentation, Coreset Sampling :

Intern, NetApp, Bangalore, India

[Jan - June 2009]

Advisor: Mr. Ramesh Makhija, Senior Manager, NETAPP

I worked on the project titled 'Automation of testcases in OODAIR' (using PERL and XML). As a developer, I worked with and added testcases functionality in OODAIR, which is an object oriented framework for FC and SCSI Series Datafort Security Appliance.

Summer Intern, Indian Institute of Science, Bangalore, India **[June – July 2008]**

Advisor: Dr. Madhavi Ganapathiraju, Assistant Professor, Department of Biomedical Informatics, University of Pittsburgh School of Medicine.

I was awarded the *Indian Academy of Sciences Summer Research Fellowship 2008*, worked on a project titled 'Linearly Scalable Search Techniques for Genomic Sequences' in Super Computer and Education Research Center at IISc and won appreciation from Prof. N. Balakrishnan, Associate Director, IISc, Bangalore

Summer Intern, Bhabha Atomic Research Center, Mumbai, India **[Jan - June 2009]**

Advisor: Dr. M. P. Diwakar, Scientist, Electronics Division, BARC

During this internship I worked on 'Eclipse Plug-in Development for Unit Testing Tool for C++'

ACADEMIC PROJECTS

- Coreset as a sampling method for clustering (Ongoing)
- Common Text Extraction Based on Minimum Cuts: Course project for Advanced Natural Language Processing in UW - Madison
- Cache Memory Issues in Multicore Architectures in C: Under Asst. Prof. T.S.B. Sudarshan, Group Leader, Computer Science Dept, BITS - Pilani
- Algorithmic Implementation and Simulation of Variable Bit Forwarding for Handling Cache Coherency in Multicore Architectures : Under Asst. Prof. T.S.B. Sudarshan, Group Leader, Computer Science Dept, BITS - Pilani

- Development of Image Search Engine using a Database (under Mr. S.P.Vimal, Lecturer, BITS-Pilani)
- Remote Patient Monitoring System through Face Gesture Recognition and ECG analysis (Application of Image Processing):During National Technical Festival of BITS- Pilani, 2008
- Karyotyping (Application of Image Processing) : During National Technical Festival of BITS-Pilani, 2007

PUBLICATIONS

Epitome driven 3-D Diffusion Tensor image segmentation: on extracting specific structures, K.Motwani, N. Adluru, C. Hinrichs, A. Alexander, V. Singh, Advances in Neural Information Processing Systems (NIPS) Conference, December 2010

(Selected for Oral Spotlight with acceptance rate of 5.9%).

POSTER PRESENTATIONS

- "Epitome driven 3-D Diffusion Tensor image segmentation: on extracting specific structures", Kamiya Motwani, Nagesh Adluru, Chris Hinrichs, Andrew L. Alexander, Vikas Singh, Poster accepted for Women in Machine Learning(WiML), December 2010
- Finalist for Best Poster Award at Science2008: "A toolkit for nonparametric explorative pattern mining in genomic and genetic sequences", Thahir P. Mohamed, Kamiya Motwani and Madhavi K. Ganapathiraju, Science2008, Pittsburgh, PA
- Presentation:"Patterns in the Human Genome: Discovery with a Highly Scalable and Flexible Suite of Tools", Madhavi Ganapathiraju, Asia Mitchell, Thahir Mohamed and Kamiya Motwani, AMIA Summit on Translational Bioinformatics, San Francisco, CA, USA, March 2009
- Posters : "Pattern Landscape of the Human Genome" and "Statistical N-gram Modeling of Genomes for Pattern Discovery" Asia Mitchell, Thahir Mohamed, Kamiya Motwani and Madhavi Ganapathiraju, AMIA Summit on Translational Bioinformatics, San Francisco, CA, USA, March 2009

ADDITIONAL INFORMATION:

- Reviewer - ECCV (European Conference on Computer Vision) 2010
- Skill Set : C/C++, Java, MATLAB, SQL, HTML, VB.NET, PERL, Verilog, Assembly.
- Operating Systems : Windows XP/Vista/7, Solaris, *nix
- Tools : Eclipse, Netbeans, Audacity, SMIL, Model Sim, AUTOCAD.
- Offered NIPS' air-travel award and WiML's travel award for conference in December, 2010.
- Received BITS, Pilani Institute's 100% Merit Scholarship for being in Top-10 in Spring 2005-06.
- Ranked 7th in Regional Mathematics Olympiad 2005