

ALI H MOHAMMAD

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EDUCATION

Ph.D.	Massachusetts Institute of Technology, Cambridge, MA	Computer Science	May, 2008
S.M. — Thesis Title “Modelling Alignment in Statistical Translation Models”	Massachusetts Institute of Technology, Cambridge, MA	Computer Science	May, 2005
B.S.	Quadruple Major in Math, Physics, Computer Science and Computer Engineering Kansas State University, Manhattan, KS		May, 2003

COMPUTER SKILLS

Languages: C/C++, PHP, Python, Java, ML, SQL, Assembler

Environments: Linux, Commercial Unices, Mac, Windows, DOS

Packages: L^AT_EX, POV-Ray, MPI, MySQL, OpenGL, nCurses, gtk and others

Mathematics: Number Theory, Linear Algebra, Abstract Algebra, Real and Complex Analysis, Numerical Analysis, Graph Theory and Topology.

WORK EXPERIENCE

VP of Technology , Ezaria.com	Present
Research Assistant , Prof. Michael Collins, CSAIL, MIT	2003-Present
– Studying Stochastic Machine Translation Models	
– Expert in Machine Learning and Natural Language Processing	
Programmer , Prof. Andrew Bennett, Dept. of Mathematics, KSU	2002-2003
– Developed a web-based homework system for differential equations and trigonometry using PHP	
– Collected data on student use of the system	
Research Assistant , Prof. Chris Sorensen, Dept. of Physics, KSU	1999-2003
– Developed the list model of aggregation, a new model of aggregation based on the aggregation kernel of a system	
– Studied the effect of anisotropies in cluster motion in two-dimensional DLCA systems	

PUBLICATIONS AND PRESENTATIONS

D. Fry, A. Mohammad, C.M. Sorensen, A. Chakrabarti, *Cluster Shape Anisotropy in Irreversibly Aggregating Particulate Systems*, *Langmuir* **2004**, 20, 7871-7879.

Novel List Method of Generating Fractal Aggregates (Talk) American Physical Society March Meeting, Austin, TX (March 2003)

Calculation of Helmholtz activation free energy from molecular dynamics simulations: adatom diffusion on (100) and (111) surfaces of Cu and Ag (Poster) American Physical Society March Meeting, Minneapolis, MN (March 2002)