

Kun Tu

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EDUCATION

2004-Present **SOUTH CHINA UNIVERSITY OF TECHNOLOGY** Guangzhou, China
MS/Ph.D. in Computer Science – Bio-inspired System, Bioinformatics and Artificial Intelligent

1996-2003 **SOUTH CHINA UNIVERSITY OF TECHNOLOGY** Guangzhou, China
B.S. in Applied Mathematics

EXPERIENCE

2007-Present **BINDS LAB , COMPUTER SCIENCE DEPARTMENT AT UMASS Amherst** Amherst, MA , U.S.
Research Assistant,

- Project on Memory Reconsolidation Model. Develop a memory-representing system for reconsolidation based on semantic networks and Bayesian networks. Design new mechanism for inferences and information propagation.
- Cancer therapy simulation in a dynamic system. Develop differential equations for therapy simulation. Develop a computer program to simulate the procedure.

2006-2007 **BIOINFORMATICS CENTER, KEY LAB OF SYSTEM BIOLOGY, Chinese Academy of Science** Shanghai, China
Research Assistant

- Molecular structure analysis. Collect data of molecular structure from experiments and protein structure data bank. Analyze the relations among the atoms in the molecular according to their spatial position.
- Protein structure prediction. Build up protein structure model; predict unknown protein structure with the model and hierarchical algorithms.

2005-2006 **AGRICULTURE, INDUSTRY AND COMMERCE COLLEGE OF GUANGDONG** Guangzhou, China
Lecturer

- Give lecture on the course of computer network.

SKILLS AND ACTIVITIES

- Computer programming languages and technologies
 - Proficient with C++, Java and flash
 - Experienced in Matlab, Mathematica
- Platforms : Windows, Linux

PUBLICATION

- Kun Tu, Zhifeng Hao and Chen Ming. PSO with improved strategy for Job-shop problem. *Lecture Notes of Computer Science, Advances in Natural Computation*. 4222/2006 :145-156
- Zhifeng Hao, Han Huang, Xili Zhang and Kun Tu. A Time Complexity Analysis of ACO for Linear Functions, *Lecture Notes in Computer Science, Simulated Evolution and Learning*. 4247/2006
- Zhifeng hao, Kun Tu and Xiaowei Yang. Solving Multiple Sequence Alignment with position-based Genetic Algorithm. *Dynamic of Continuous, Discrete and impulsive System*
- Huang Han, Hao Zhifeng, Yang Xiaowei, Tu Kun. Evolutionary algorithm for generalized traveling salesman problem, *Journal of Computational Information Systems*, 2006, 2(3), 1017-1024