

Mingfu Shao

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Education

2008–present, Master Candidate of Computer Science (Supervisor: Dongbo Bu), Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China.

2004–2008, Bachelor of Computer Science, Beijing Institute of Technology, Beijing, China.

Research Interest

Bioinformatics, especially designing combinatorial algorithm and developing statistical model for protein structure prediction.

Algorithm, especially open questions of approximation algorithm.

Publications

Mingfu Shao, Sheng Wang, Chao Wang, Xiongying Yuan, Shuai Cheng Li, Weimou Zheng and Dongbo Bu. *Incorporating Ab Initio Energy into Threading Approaches for Protein Structure Prediction*. (to appear at BMC Bioinformatics).

Yi Wei, **Mingfu Shao**, Jishuang Yang, Chao Wang, Shuai Cheng Li, Dongbo Bu. *Approximating Conserved Regions of Protein Structures*. CSB 2010.

Software

SWIFT, a novel threading method designed for prediction of proteins' 3D structure based on the observation of an interesting phenomenon of "short-cut". SWIFT has registered as a server (FALCON-SWIFT) participating CASP9. Its webservice can be accessed from: <http://www.bioinfo.org.cn/swift/>.

Computer Skills

Language: especially good at C++, R and Bash, familiar with Java, HTML and PHP.

Tools: especially good at programming tools under Linux (vi, sed, gdb, automake, svn), L^AT_EX.

Experience

Fall 2009 and 2010, Teacher Assistant of Course *Algorithm Design and Analysis* (Lecturer: Dongbo Bu, Website: <http://bioinfo.ict.ac.cn/~dbu/Algo09/Algo09.htm>).

2007.10–2008.02, Internship in Microsoft Research Asia (Mentor: Yingnong Dang).

Honors and Awards

2009, Merit Student of Advanced Computing Research Laboratory, Institute of Computing Technology, Chinese Academy of Sciences.

2008, Beijing Outstanding Graduates.

2007, China Encouragement Scholarship.

2006, First Prize in China Collegiate Physics Contest.

2005, China Scholarship.

Reference

Prof. Dongbo Bu

Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China.

Homepage: <http://bioinfo.ict.ac.cn/~dbu/>

Prof. Weimou Zheng

Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing China.

Homepage: <http://power.itp.ac.cn/~zheng/>

Researcher Yingnong Dang

Microsoft Research Asia, Beijing, China