

Curriculum vitae of HUI Sheng

PhD student

The BioMaPS institute for quantitative biology
Rutgers, the State University of New Jersey
Piscataway, New Jersey

E-mail: shenghui@biomaps.rutgers.edu

URL: <http://eden.rutgers.edu/~shenghui>

EDUCATION

- 02/2003-05/2005 **M. Phil.** in Physics, Hong Kong Baptist University
Thesis title: *The analysis of metabolism in Saccharomyces cerevisiae with genome-scale gene expression data*
Supervisor: Prof. L.H. Tang, Co-supervisor: Prof. N.H. Cheung
- 09/1999-06/2002 **B. Sc** in Physics (First Class Hon., 1 out of 45), Hong Kong Baptist University
Final year honors project: *RNA second structure prediction with pseudoknots*
Supervisor: Prof. L.H. Tang
GPA: 3.63/4.0
- 9/1998-6/1999 Tsinghua University & Hong Kong Baptist University Foundation course
The first semester study was held in Beijing Foreign Studies University while the second semester study was held in HKBU

PROFESSIONAL ASSOCIATION

- Member of International Society for Computational Biology (ISCB)
- Member of American Physical Society (APS)

AWARDS/SCHOLARSHIP

- Foundation Scholarship for Undergraduate Students from Mainland, 1998~1999
- Hong Kong Jockey Club Scholarship for Outstanding Mainland Students, 1999~2002
- The 1st Wu Ta-you Science Camp, Taiwan, 2001
- The Lui Ming Choi Scholarship, Hong Kong Baptist University, 2002
- Scholastic Award, Hong Kong Baptist University, 2002
- M.Phil. Studentship, Hong Kong Baptist University, 2003~2005
- Fellowship, Rutgers, the State University of New Jersey, 2006-2007

RESEARCH/WORK EXPERIENCE

- 06/2005-07/2006 CTMB Lab, Department of Physics, Hong Kong Baptist University
Research Assistant
- Constraint-based analysis of yeast and E.coli metabolic networks
- 02/2003-05/2005 Department of Physics, Hong Kong Baptist University
M.Phil. student
- Yeast microarray data analysis, e.g., regulatory module finding
- Topological analysis of yeast and E.coli transcription regulatory networks
- Construction and module finding of yeast metabolic network
- 02/2003-06/2003 Department of Physics, Hong Kong Baptist University
Coordinator for postgraduate student seminar
- Invite speakers and organize weekly lunch seminars
- 12/2002-01/2003 Institute of Physics, Chinese Academy of Sciences
Visiting student at the Soft Condensed Matter Lab
- Simulation of kinesin movement on microtubules
- 12/2001-01/2002 Peking University
Visiting student at the Center for Theoretical Biology
- Multi-Canonical Monte Carlo applied to prediction of protein surface loops

COMPUTER SKILLS

- Operating Systems: expert level on Windows, Linux/Unix
- Languages & Software: extensive experience on Fortran, Perl, Matlab

FOREIGN LANGUAGE PROFICIENCY

- Fluent in English

PUBLICATIONS/PRESENTATIONS

1. **Sheng Hui**, *The analysis of metabolism in Saccharomyces cerevisiae with genome-scale gene expression data*. MPhil. thesis (2005)
2. **Sheng Hui** and Lei-Han Tang, *Ground state and glass transition of the RNA secondary structure*. Eur. Phys. J. B **53**, 77-84 (2006)

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