Songpeng Zu

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EDUCATION

2011.09 PhD Candidate, Bioinformatics Laboratory, Tsinghua University.

present Graduate Major GPA: 90.84/100

- Applied Stochastic Processes
- Statistic Inference
- Pattern Recognition

- Basic Functional Analysis
- Probabilistic Graph
- Design of Bioinformatics Algorithms

2007.09— Bachelor, School of Life Science, Tsinghua University.

2011.07 Undergraduate Major GPA: 86.32/100

- Linear Algebra and Analytic Geometry
- Biostatistics
- Cell Biology
- Advanced Calculus
- Biochemistry
- Genetics
- o General Physics (required for Physics ma- o Organic Chemistry (required for Chemistry major)

RESEARCH INTERESTS

- Statistical learning theory and application
- Computational Chemistry
- Network Polypharmacology

RESEARCH EXPERIENCE

- 2013.03- Prediction of drug-protein interactions by integrating large-scale ligand-protein interac-
- present tions with genomic information
- 2013.07 Identification of HIV-1 subtypes and drug resistance by genomic data analysis
- 2011.12 Inference of the interactions between drug chemical substructures and protein domains
- from incomplete data by EM algorithm
- 2010.12 -Molecular dynamics simulations of compound-protein interactions
- 2011.06

WORK EXPERIENCE

- 2013.09- TA of Probabilistic Graphical Models
- present
- 2011.08- Undergraduate Affair Counselor(for scholarship and financial aid assessment)
- 2012.12
- 2008.09 Internship in Novozymes China Investment Company
- 2008.08 2008 Beijing Olympic Games volunteer

AWORD

2013 Tsinghua Scholarship for Overseas Graduate Studies

2012 Tsinghua Excellent Undergraduate Affair Counseior

2010 Tsinghua Zhongying Tang Scholarship

OTHER INFORMATION

Softwares Matlab, R, Perl, and C/C++

Hobbies Football and the international ballroom dance

PAPER UNPUBLISHED

SUDO: Globally Inferring the Interactions between Drug Chemical Substructures and Protein domains from Incomplete Drug Target Interactions Data

Songpeng Zu*, Ting Chen and Shao Li.

In this work, we constructed a probalisitic model and estimated the parameters by EM algorithm to decipher the possible mechanisms that govern drug-protein interactions from incomplete data.