

# SONGPENG ZU

FIT 1-108, Tsinghua University, Beijing, China  
zsp07@mails.tsinghua.edu.cn ◇ <https://github.com/songpeng>

## EDUCATION

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**Tsinghua University** 2011.09 - Present

PhD Candidate, Bioinformatics Laboratory, Department of Automation, Tsinghua University

Graduate Major GPA: 90.84/100

- Applied Stochastic Process
- Real Analysis, Basic Functional Analysis
- Pattern Recognition, Probabilistic Graph
- Applied Abstract Algebra
- Design of Bioinformatics Algorithms
- Probability and Statistics in High Dimensions

**Tsinghua University** 2007.09 - 2011.07

Bachelor, School of Life Science, Tsinghua University

Undergraduate Major GPA: 86.32/100

## RESEARCH EXPERIENCE

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**Department of Automation, Tsinghua University** 2011.07 - Present

Major on predicting compound-protein interactions from the machine learning perspective.

- Predicting chemogenomic features from drug-target interactions by EM algorithm.
- Predicting drug-target interactions by a graph partition model.
- Quantitatively predicting on compound-protein interactions based on transfer learning.

**Department of Statistics, Harvard University** 2014.03 - 2014.09

cis-eQTLs detection on GTEx Project.

- Using the Bayesian Nonparametric tests via sliced inversed modeling to detect the non-linear relationships.

**Internship in Baidu Inc, Beijing, China** 2014.01 - 2014.02

- Relating the influenza epidemics with the query data in China.
- Studying the AIDS risks in different regions with the query data in China.

**Internship in Disease Control and Prevention Center, Liuzhou, China** 2013.07 - 2013.08

- Studying the AIDS subtypes in Liuzhou by the DNA sequence data.
- Helping them to construct the methods on sequence analysis of AIDS.

## PUBLICATION

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**Zu S.**, Chen T, Li S. *Global optimization-based inference of chemogenomic features from drug-target interactions*. Bioinformatics, 2015. (published online)

## WORK EXPERIENCE

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- TA of Introduction to Systems Biology for undergraduate students 2014.09 - 2015.01
- TA of Probabilistic Graphical Models for graduate students 2013.09 - 2014.01
- Undergraduate Affair Counselor (for scholarship and financial aid assessment) 2011.08 - 2013.01
- The volunteer of 2008 Beijing Olympic Games 2008.08

## AWARDS

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- Tsinghua Scholarship for Overseas Graduate Studies 2014
- Tsinghua Excellent Undergraduate Affair Counselor 2013
- Tsinghua Zhongying Tang Scholarship 2008, 2009, 2010

## TECHNIQUES AND INTERESTS

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<b>Computer Languages</b>	R, Python, Perl, C/C++, Shell
<b>Tools</b>	Emacs, Vim, Latex
<b>Interests</b>	The international ballroom dance, Football