

XIN ZHOU

Postdoctoral, NIH NIDA R25 fellow
Department of Genetics,
Washington University in St. Louis,
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EDUCATION

Sep. 2004–Nov. 2008 Ph.D. in bioinformatics, Department of Plant Science, College of Biological Sciences, China Agricultural University.

Dissertation: Bioinformatics web server construction and genetic network modeling.

Mentor: Zhen Su, Professor

Sep. 2000–Jun. 2004 B.S. in Biological Sciences, College of Biological Sciences, China Agricultural University.

PROFESSIONAL EXPERIENCE

May 2010–Now, Postdoctoral reserach fellow in Department of Genetics, Washington University in St. Louis. Focus on developing the WashU EpiGenome Browser, a web service for genomics data visualization and analysis.

Mentors: Ting Wang, Assistant Professor

Pamela Madden, Professor

Nov. 2009–May 2010, Postdoctoral reserach associate in Baylor College of Medicine.

Worked on comparing various sequencing-based platforms in DNA methylation assay of the human genome.

Jan. 2009–Nov. 2009, Research Associate in Instistute of Plant Genomics and Biotechnology, Texas A&M University.

PROFESSIONAL SKILLS

Experienced in developing web service under Linux enviroment.

Experienced with C, Python, JavaScript, and HTML5 programming.

Familiar with high-throughput DNA sequencing data analysis, and general bioinformatics research areas.

PROJECTS AND PRODUCTS

WashU EpiGenome Browser

<http://epigenomegateway.wustl.edu>

Transposon-centric view of human epigenomic profiles

<http://epigenomegateway.wustl.edu/browser/repeat>

Complete Epigenome Display

<http://epigenomegateway.wustl.edu/browser/roadmap>

tCal: gene transcription probability calculator using thermodynamic model (past)

<http://bioinformatics.cau.edu.cn/tCal>

Arabidopsis hormone database (past)

<http://ahd.cbi.pku.edu.cn>

EasyGO: Gene Ontology-based functional enrichment analysis (past)
<http://bioinformatics.cau.edu.cn/easygo>

SELECTED PUBLICATIONS

Xin Zhou, Rebecca Lowdon, Daofeng Li, Heather A Lawson, Martin Hirst, Pamela A.F. Madden, Joseph Costello, Ting Wang
Exploring long-range genome interaction data using WashU Epigenome Browser
Nature Methods, 10, 375-376 (2013)

Xin Zhou, Ting Wang
Using WashU Epigenome Browser to examine genome-wide sequencing data
Current Protocol in Bioinformatics, Unit 10.10

Xin Zhou, Brett Maricque, Mingchao Xie, Vasavi Sundaram, Cydney Nielsen, Martin Hirst, Peggy Farnham, Robert Kuhn, Jingchun Zhu, Ivan Smirnov, James Kent, David Haussler, Pamela Madden, Joseph F. Costello, Ting Wang
The Human Epigenome Browser at Washington University
Nature Methods, 8, 989-990 (2011)

Zhiyu Peng*, Xin Zhou*, Linchuan Li*, Xiangchun Yu, Hongjiang Li, Zhiqiang Jiang, Guangyu Cao, Mingyi Bai, Xingchun Wang, Caifu Jiang, Haibin Lu, Lijia Qu, Zhiyong Wang, Jianru Zuo, Xiangdong Fu, Jianmin Zhou, Zhen Su, Songgang Li, and Hongwei Guo
Arabidopsis Hormone Database: A Comprehensive genetic and phenotypic information database for plant hormone research in Arabidopsis
Nucleic Acids Research 2009, 37: D975-D982. (* co-first authors)

Xin Zhou, Zhen Su
tCal: transcriptional probability calculator using thermodynamic model
Bioinformatics 2008, 24:2639-2640

Xin Zhou, Zhen Su
EasyGO: Gene Ontology-based annotation and functional enrichment analysis tool for agronomical species
BMC Genomics 2007, 8:246

CONFERENCES

(oral presentation) Xin Zhou, **Visualizing epigenomics data using WashU EpiGenome Browser**, *Roadmap Epigenomics Project Meeting* (San Francisco, NY, May 2013)

(poster presentation) Xin Zhou, Ting Wang, and co-authors, **Visualizing genomics data using WashU EpiGenome Browser**, *The Biology of Genomes* (Cold Spring Harbor Laboratory, NY, May 2013)

(poster presentation) Xin Zhou, Ting Wang, and co-authors. **Power web tool for visualizing genomics data**, *VIZBI: Visualizing Biological Data* (Boston, MA, March 2011)

(oral presentation) Xin Zhou, Ting Wang, and co-authors, **WashU Epigenome Browser**, *Generic Model Organism Database Meeting* (Georgetown, DC, 2012)

(oral presentation) Xin Zhou, Ting Wang, and co-authors, **The Human Epigenome Browser at Washington University**, *NIDA Genetics Consortium* (Rockville, MD, November 2011)

(oral presentation) Xin Zhou, Ting Wang, and co-authors, **The Human Epigenome Browser at Washington University**, *Annual Meeting of Behavior Genetics Association* (New Port, RI, June 2011)

(poster presentation) Xin Zhou, Ting Wang, and co-authors, **The Human Epigenome Browser**

at **Washington University**, *The Biology of Genomes* (Cold Spring Harbor Laboratory, NY, May 2011)

(poster presentation) Xin Zhou, Ting Wang, and co-authors. **The Human Epigenome Browser at Washington University**, *VIZBI: Visualizing Biological Data* (Boston, MA, March 2011)

REFERENCES

- Dr. Ting Wang** Assistant Professor, Department of Genetics, Washington University in St. Louis.
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- Dr. Pamela A.F. Madden** Professor, Department of Psychiatry, Washington University in St. Louis,
maddenp@psychiatry.wustl.edu 314-286-2286.
- Dr. Joseph Costello** Associate Professor in Residence of Neurological Surgery, University of California, San Francisco
jcostello@cc.ucsf.edu 415-514-1183
- Dr. Zhen Su** Professor, College of Biological Sciences, China Agricultural University, Beijing
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