Xiu Huang

CONTACT INFORMATION

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Computational Biology and Bioinformatics
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EDUCATION

Yale University, New Haven, CT USA

Pursuing PhD. Computational Biology and Bioinformatics, Sep.2010-now
Advisor: Prof Hongyu Zhao

Huazhong University of Science and Technology (HUST), Wuhan, Hubei China

B.E., Bioinformatics, June 2010
Advisor: Prof Yanhong Zhou, Prof Lu Xie

RESEARCH EXPERIENCE

Yale University, New Haven, CT USA

Graduate Student Project **July. 2011 - now**
Statistical Assessment of PHY906 as an Adjuvant in Treating Cancer.

- Supervised by: Honyu Zhao, PhD, Ira V. Hiscock Professor of Public Health (Biostatistics) and Professor of Genetics and of Statistics, Yale University;

Graduate Student Class Project **April 2011 - March 2012**
Inferring Consistent Functional Interaction Patterns during Natural Stimulus fMRI of Video Watching.

- Supervised by: Jing Zhang, PhD, Assistant Professor in Department of Statistics, Yale University;

Graduate Student Rotation **April 2011 - Jun. 2011**
Retinal Ganglion Cell (RGC)s gene expression profile analysis.

- Supervised by: Honyu Zhao, PhD, Ira V. Hiscock Professor of Public Health (Biostatistics) and Professor of Genetics and of Statistics, Yale University;

Graduate Student Rotation **Jan. 2011 - Mar. 2011**
Analysis of genome wide methylation data in melanoma, involving gene set enrichment analysis, validation across different datasets, and pseudogenes regulatory role in melanoma.

- Supervised by: Michael Krauthammer, PhD, Associate Professor of Pathology, Yale University;

Graduate Student Rotation **Sep. 2010 - Dec. 2011**
Assessment of the possibility of pseudogenes acting as parent genes decoy and targeted by microRNA.

- Supervised by: Mark Gerstein, PhD, Albert L Williams Professor of Biomedical Informatics Molecular Biophysics & Biochemistry and Computer Science, Yale University.

Huazhong University of Science and Technology (HUST), Wuhan, Hubei China

Undergraduate Student Project **July 2009 - May 2010**
Collection and construction of databases for the National 973 Project: analysis of massive protein mass spectrometry and its application in the human genome annotation.

- Supervised by: Lu Xie, PhD, MD, Professor, PI of Translational Medicine Group, Shanghai Center for Bioinformation Technology.

Undergraduate Student Project **July. 2009 - May 2010**
Prediction of miRNA using the features of Drasha enzyme cleavage site.

- Supervised by: Yanhong Zhou, PhD, Professor in Department of Bioinformatics, School of Life Science and Technology, Huazhong University of Science and Technology.

Undergraduate Student Class Project **Mar. 2008 - May 2008**

Improvement of the design of the in class experiment called "isolation of amino acids using thin layer chromatography".

- Supervised by: JingXiao, Engineer Technician, Laboratory of Biochemistry, School of Life Science and Technology, Huazhong University of Science and Technology.

Published papers

Jiehuan Sun*, Xintao Hu*, **Xiu Huang**, Yang Liu, Kaiming Li, Xiang Li, Junwei Han, Lei Guo, Tianming Liu**, Jing Zhang**, Inferring Consistent Functional Interaction Patterns from Natural Stimulus FMRI Data, *Joint first authors, **Joint corresponding authors, accepted, NeuroImage, 2012.

Xiao-Bin Xing, Qing-Run Li, Han Sun, Xing Fu, Fei Zhan, **Xiu Huang**, Jing Li, Chun-Lei Chen, Yu Shyr, Rong Zeng, Yi-Xue Li, Lu Xie, The discovery of novel protein-coding features in mouse genome based on mass spectrometry data, Genomics, 2011

Jing Xiao, Yuanxi Wu, Xingfu Liu, **Xiu Huang**, Jiao Yuan, Designing Open Experiments, Improving Comprehensive Abilities, Experiment Science and Technology, 2009, 7(2), G642–423. (In Chinese)

Honors and Awards

- Scholarship for Outstanding Student Leader from department (HUST), 2006-2007.
- Title of Outstanding Student from university (HUST), 2007-2008.
- Scholarship for Outstanding Study Performance from department (HUST), 2007-2008
- Scholarship for Self-reliance from university (HUST), 2009
- Title of Outstanding Graduate from university (HUST), 2010.

Computer Skills

- Statistical Packages: proficient in R; some experience with STATA.
- Languages: proficient in C, C++, Perl, Unix shell script, some experience with Matlab.
- Applications: Office Microsoft, LaTeX, etc.
- Operating Systems: Unix/Linux, Windows.

Core Training

- Mathematics courses: Probability and Statistics, Calculus, Linear Algebra, etc.
- Computer Science courses: Data Structure and Algorithm, Objective-Oriented Programming, The technology and application of database, etc.
- Biology courses: Cellular Biology, Genetics, Molecular Biology, etc.
- Wet Lab experience: Ion Exchange Chromatography (IEC), 2D Gel Electrophoresis, etc.