

PEIPEI LI

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Mailing Address (Work):
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RESEARCH AREA

Data mining, Bioinformatics, NGS, Genomics, Epigenomics

KEY SKILLS

Programming with JAVA, C++, R
Familiar with database design, SQL language and mySQL database, data mining technologies (classification, association, clustering)
Basic statistics knowledge and SPSS
Web development with Javascript, Asp, Asp.Net, xhtml, xml, J2EE

WORK EXPERIENCE

Bioinformatics Postdoc Researcher

Center for Neurodegenerative Science Jan. 2017~now
Van Andel Research Institute, US
Adviser: Pr. Viviane Labrie

Postdoc Researcher

Database&Bioinformatics Lab. Sep. 2016~Jan.2017
Chungbuk National University, Korea
Adviser: Pr. Keun Ho Ryu

EDUCATION

PhD Chungbuk National University, Korea Sep. 2011~Aug.2016
Computer Science
Dissertation: Systematic Comparison Analysis of Normalization Methods for RNA-Seq Data
Adviser: Pr. Keun Ho Ryu

MS Chungbuk National University, Korea Sep. 2009~Aug.2011
Computer Science
Thesis: "QSE: A New 3D Solvent Exposure Measure for the Analysis of Protein Structure"
Adviser: Pr. Keun Ho Ryu

BS Harbin Institute of Technology, China Sep. 2005~Jul. 2009
Software Engineering
Thesis: "Design and Development of Chinese Chess Game Based on Symbian 3rd Platform"
Adviser: Pr. Bin Chen

PROFESSIONAL TRAINING

Advanced Microarray Data Analysis, Next Generation Sequencing & Personal Genome Data Analysis, RNA-seq, Disease Genome Data Analysis Feb. 2013

The 4th Genome Data Analysis Workshop

Transcriptome analysis

Aug. 2011

The 6th Asian Institute in Statistical Genetics and Genomics

HONORS AND AWARDS

Best paper award of ICISCA 2015 conference	Jun. 2015
Best paper award of FITAT 2012 conference	Aug. 2012
Best paper award of FITAT 2011 conference and DBMI 2011 workshop	May. 2011
Outstanding graduate of Shandong province, China	Jun. 2009
Excellent Graduate Thesis	Jun. 2009

RESEARCH EXPERIENCE

Production of multiomics data on T2D related target cell, NIH project

Dec. 2015~Jul. 2016

- Related work on project proposal
- Survey on existing databases

Evaluation of normalization methods for RNA-Seq data analysis and simulator development, NIH project

Jan. 2013~Jul. 2013

- Working with two researchers as a team leader
- Survey on existed normalization methods; RNA-Seq data and reference data collection and preprocessing; alignment using Bowtie; normalization using methods; evaluation with qRT-PTR data; Simulation tool development system design
- Report writing

Self-organizing knowledge evolution technology for personalized medicine, PT-ERC project

Sep. 2011-Jul. 2013

- Clinical data warehousing design for urological data
- Project administrative work

Development of a System for Extracting Bioinformation in Biomedical Literatures, NIH project

Sep. 2010~Dec. 2011

- Survey on related work: Approaches for extracting PPIs from biomedical text, Gene and Protein Nomenclature, Gene normalization
- Database schema design

A visiting Scholar at the University of Technology, Sydney

Jan. 2012~Feb. 2012

Internship in Jingchi Technology Inc Limited for industrial training

Aug. 2008~Apr. 2009

PUBLICATIONS

Journal Publications

1. Yong Joo Kim*, Peipei Li*, Jong Myeon Hong, Keun Ho Ryu, Eunwoo Nam, Mi Soo Chang, "A single center analysis of the positivity of Hepatitis B antibody after neonatal vaccination program in Korea", Journal of Korean Medical Science, 32(5), May 2017. **SCI, IF: 1.256.**
2. Peipei Li, Yongjun Piao, Ho Sun Shon and Keun Ho Ryu, "Comparing the normalization methods for the differential analysis of Illumina high-throughput RNA-Seq data", BMC Bioinformatics, 16(347), Oct. 2015. **SCIE, IF: 2.58.**

3. Peipei Li, Keun Ho, Ryu, "A logistic regression approach for identifying hot spots in protein interfaces", Lecture Notes in Computer Science, 9267, pp. 37-48, Sep. 2015. [Scopus](#).
4. Peipei Li, Gouchol Pok, Kwang Su Jong, Ho Sun Shon and Keun Ho Ryu, "QSE: A New 3D Solvent Exposure Measure for the Analysis of Protein Structure", Proteomics, Vol. 11, No. 19, pp. 3793-3801, Nov. 2011. [SCI, IF: 3.807](#).

Conference Papers

1. Peipei Li, Keun Ho Ryu, "Driving sequence information from AAIndex for protein hot spots prediction", ICISCA, pp. 34-37, Jun. 2015.
2. Peipei Li, Oh In-Bae and Keun Ho Ryu, "SVM based classifier for hot spots identification", FITAT 2012, pp. 51-53, Aug. 2012.
3. Peipei Li, Chae-Woo Yoo and Keun Ho Ryu, "Naïve Bayes for hot spots predictions in protein interfaces combining graph features", ISMB 2012, Jul. 2012.
4. Peipei Li, Lyong Heo, Meijing Li, Gouchol Pok and Keun Ho Ryu, "Protein Function Prediction Using Frequent Patterns in Protein-Protein Interaction Networks", IEEE FSKD'11, Vol. 3, pp. 1664-1668, Jul. 2011.
5. Peipei Li, Gouchol Pok, and Meijing Li, "Identification of Hot Spots in Proteins Combining Small-word Network Characteristics and Solvent Accessibility", FITAT/DBMI 2011, pp. 103-105, May. 2011.
6. Peipei Li, Ho Sun Shon, Gouchol Pok and Keun Ho Ryu, "Eighth-Sphere Exposure: A Three-Dimensional Solvent Exposure Measure", BIBM 2010, pp. 41-46, Dec. 2010.
7. Peipei Li, Gouchol Pok and Keun Ho Ryu, "Small World Network to Identify Hot Spots in Protein-Protein Interactions", uHealthcare 2010, pp. 97-98, Oct. 2010.
8. Peipei Li, Gouchol Pok, Guangri Quan and Keun Ho Ryu, "Salient Physicochemical Properties of Amino Acids in the Hot Spot Area", FITAT 2010, pp. 111-115, Jun. 2010.
9. Peipei Li, Gouchol Pok and Keun Ho Ryu, "On Physicochemical Traits of Proteins Related to Secondary Structure Configurations", IEEE JCSSE 2010, pp. 91-95, May. 2010.

LANGUAGES

Chinese: Native Language

English: IELTS: 6.5 TOEIC: 790

Korea: TOPIK: Level 4