Liang-Bo Wang

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EDUCATION

National Taiwan University, Taipei, Taiwan

M.S. in Biomedical Electronics and Bioinformatics Jan 2014 – Jun 2016 (expected)

• GPA: 3.85 / 4.0

B.S. in Electrical Engineering

Sep 2009 – Jan 2014

• Minor in Economics

• GPA: 3.79 / 4.0

RESEARCH EXPERIENCE

Microsoft Research Asia, Beijing, China

Jul 2014 - Feb 2015

Internship

• Advisor: Dr. Eric Chang

• Topic: Cancer Image and Pathway Analysis

• Applied convolutional neural network to histopathology image analysis

Biomedical Engineering and Bioinformatics, National Taiwan University

Graduate Research

Jan 2014 – Present

• Advisor: Professor Eric Y. Chuang

• Topic: Integrative analysis of copy number variation, gene expression, and miRNA regulation on cancer; drug treatment prediction on lung cancer cell line

Undergraduate Research

Sep 2012 - Jan 2014

• Advisor: Professor Eric Y. Chuang

• Topic: DNA-seq, RNA-seq and small RNA-seq data processing

• Project: Nextbiopy, a web-based NGS pipeline report generator

Undergraduate Research

Sep 2011 – Nov 2012

• Advisor: Associate Professor Wei-Cheng Tian

• Project: CMOS-based tactile sensor system for blood pressure measurement

PUBLICATIONS

JOURNALS

- [1] Y.-P. Lai*, L.-B. Wang*, L.-C. Lai, M.-H. Tsai, T.-P. Lu, and E. Y. Chuang, "iGC—an integrated analysis package of Gene expression and Copy number alteration", Under review.
- [2] Y. Xu, F. Zhang, Z. Jia, **L.-B. Wang**, Y. Ai, M. Lai, E. Chang, "Large Scale Tissue Histopathology Image Classification, Segmentation and Visualization via Deep Convolutional Activation Features", Under review.
- [3] **L.-B. Wang**, E. Y. Chuang, T.-P. Lu, "Identification of predictive biomarkers for ZD-6474 in lung cancer", *Translational Cancer Research*, vol. 4, no. 4, Aug 2015.
- [4] C.-Y. Lee*, Y.-C. Chiu*, L.-B. Wang*, Y.-L. Kuo*, E. Y. Chuang, L.-C. Lai, M.-H. Tsai, "Common applications of next-generation sequencing technologies in genomic research", *Translational Cancer Research*, vol. 2, no. 1, Feb 2013.

CONFERENCE PAPERS

- [1] L.-B. Wang, S.-Y. Dai, T.-P. Lu, L.-C. Lai, M.-H. Tsai, E. Y. Chuang, "Nextbiopy: Utilities for next-generation sequencing data processing", 9th Asian Pacific Conference on Medical and Biological Engineering (APCMBE). Tainan. Taiwan, Oct 2014.
- [2] C.-Y. Lee*, L.-B. Wang*, M.-H. Tsai, L.-C. Lai, E. Y. Chuang, "Identification of novel miRNAs in breast data of the next generation sequencing using miRDeep2 and Galaxy", AACR 104th Annual Meeting, Washington, DC, U.S.A., Apr 2013.
- [3] Y.-C. Lin, C.-J. Hsieh, L.-B. Wang (presenter), J.-C. Liou, W.-C. Tian, "CMOS MEMS metal-based tactile sensors development", AVS 59th International Symposium & Exhibition, Florida, U.S.A., Oct 2012.
- [4] C.-T. Sun, Y.-C. Lin, C.-J. Hsieh, J.-C. Liou, L.-B. Wang, W.-C. Tian, "A linear-response CMOS-MEMS capacitive tactile sensor", IEEE Sensors 2012, Taipei, Taiwan, Oct 2012.

HONORS & AWARDS

Outstanding Summer Research Award,

2012

Center of Genomic Medicine, National Taiwan University

• Research Topic: miRNA discovery using NGS data

Gold medal, International Genetically Engineered Machine (iGEM)

2012

- Topic: A demonstration of PepdEx with mind-altering bacteria
- Role: Biological circuit (gene network) simulation and wiki page construction

WORK EXPERIENCE

Pinkoi, Taipei, Taiwan

Jun 2015 – Sep 2015

Internship

- Pinkoi is an online marketplace for unique and original design goods in Asia
- Topic: Product search improvement
- Improved Chinese text segmentation on ElasticSearch and added preliminary semantic search built on Word2Vec

PROGRAMMING SKILLS

LANGUAGES

Python (both scientific and web stack), R, LATEX, C, SQL, Web frontend

EXTRA-CURRICULAR ACTIVITIES

PyCon Taiwan Organizing Committee, Taipei, Taiwan

Jul 2015 - Present

Program Chair

PyCon APAC Organizing Committee, Taipei, Taiwan

2014, 2015

Public Relations Manager

Open Source Communities, Taipei, Taiwan

2013 – Present

Regular Speaker

- Including Taiwan PyCon, Taipei.py, Taiwan R User Group, and PyCon China
- Gave over 10 talks, topics included convolutional neural network, text search, HDF5, Parallel Computing, and R ggplot2 plotting.

Photography Club, National Taiwan University

2009 - 2013

President

Mar 2011 – Sep 2011

Leader of Education Division

Mar 2010 - Mar 2011

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