

Liang-Bo Wang

liang-bo.wang@wustl.edu • +1-314-285-8111 • <http://liang2.tw>

EDUCATION

- Washington University in St. Louis**, United States
Ph.D. student in Computational and Systems Biology Aug 2016 – (present)
- National Taiwan University**, Taipei, Taiwan
M.S. in Biomedical Electronics and Bioinformatics Jan 2014 – Jul 2016
B.S. in Electrical Engineering Sep 2009 – Jan 2014
- Minor in Economics

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 – Jun 2016
- 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] Yi-Pin La*, **Liang-Bo Wang***, Wei-An Wang*, *et. al.* “iGC—an Integrated Analysis Package of Gene Expression and Copy Number Alteration.” *BMC Bioinformatics*, vol. 18, no. 35, Jan 2017.
- [2] **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.
- [3] 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.

PROFESSIONAL AFFILIATIONS & ACTIVITIES

McDonnell International Scholars Academy, St. Louis, USA
Scholar 2016 – Present

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 , Web frontend, SQL, C

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

[Last updated: 2017-01-15]