

Curriculum Vitae

Liang-Bo Wang

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PROFESSIONAL PROFILE

1. Ability to manipulate bioinformatic tools and analyze next generation sequencing data
2. Technical skills to carry out web and distributed computation development

ACADEMIC HONORS AND AWARDS

1. **Outstanding Research Award**, NTU Center of Genomic Medicine Summer Research, 2012
2. **Gold medal** and advance to World Championship Jamboree, NTU-Taida Team, iGEM (International Genetically Engineered Machine), 2012

EDUCATION

1. Master of Science in Graduate Institute of Biomedical Electronics and Bioinformatics, National Taiwan University, Jun 2015 (*expected*)
2. Bachelor of Engineering, Electrical Engineering and Economics (minor), National Taiwan University, Jan 2014

EXPERIENCE

1. **Internship:** Microsoft Research Asia, Jul 2014 – Jan 2015 (*expected*)
2. **Python Package Development:** NGCloud, Mar 2014 – present
 - NGS User-friendly web-based report generator
3. **Python Package Development:** NextBiopy, Sep 2013 – present
 - Data parser for common NGS file formats
4. **Project Research:** Bioinformatics and Biostatistics Core Lab, NTU Center of Genomic Medicine, National Taiwan University, Taipei, Taiwan, Sep 2012 – present
 - Topic: DNA-seq, RNA-seq and sRNA-seq data processing
5. **R Package Development:** recurrentR, May 2013 – Sep 2013
 - Implementation of a recurrent model with informative censoring (C.-Y. Huang, 2010)
6. **Team Project:** NTU-Taida Team, iGEM 2012, Jan 2012 – Nov 2012
 - Topic: A demonstration of PepdEx with a mind-altering bacteria delivering GLP-1
 - Role: Biological circuit (gene network) simulation; iGEM wiki page construction
7. **Project Research:** Micro & Nano Analytical Technologies & Systems Lab, Graduate Institute of Electronics Engineering & Graduate Institute of Biomedical Electronics and Bioinformatics, National Taiwan University, Taipei, Taiwan, Sep 2011 – Nov 2012
 - CMOS-based tactile sensor system for blood pressure measurement

SKILLS

1. **Programming Languages:** Python, R, JavaScript(CoffeeScript), Stylus, C, SQL
2. **Familiar Tools/Projects:** Numpy, Pandas, RPy2, Matplotlib, IPython, ggplot2, D3.js
3. **Operating System:** Debian Linux, Mac OSX

PUBLICATION

1. 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 2013*, Apr 2013
2. C.-Y. Lee[†], Y.-C. Chiu[†], **L.-B. Wang[†]**, Y.-L. Kuo[†], E. Y. Chang*, L.-C. Lai*, M.-H. Tsai*, Common applications of next-generation sequencing technologies in genomic research, *Transl Cancer Res*, Feb 2013 (review paper)
3. Y.-C. Lin, C.-J. Hsieh, **L.-B. Wang**, J.-C. Liou, W.-C. Tian*, CMOS MEMS metal-based tactile sensors development, *AVS 59th International Symposium & Exhibition*, 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*, 2082-2085, Oct 2012

[†] implies equal contribution to the work; name of the presenter is underlined

EXTRACURRICULAR ACTIVITIES

1. **Co-organizer** of Taiwan R User Group, Mar 2013 – present
 - **Co-organizer and speaker** of Machine Learning/Data Mining Monday weekly meet ups
 - **Speaker** of R workshop on statistics and Visualization in at several colleges
2. **Speaker** of Taipei.py biweekly meet ups, Jan 2013 – present
 - **Host of code sprint**, a Python project contribution event, on Nextbiopy
3. **Speaker** of China R Conference, Beijing, May 2014
 - Talk topic: Interactive Visualization with R
4. **Speaker** and **staff** of PyCon APAC, May 2014
 - Role: oversea public relation; leader of Japanese/English/Chinese web editing
 - Talk topic: Handy Parallelization in Python; Statistics in Python with R
5. **Speaker** of Taiwan R Conference, Dec 2013
 - Talk topic: R Visualization using ggplot2
6. NTU Photo Club, 2009 – 2013
 - Staff (Mar 2010) and Leader (Sep 2010) of education division, **president** (Mar 2011) and web manager (Sep 2011)
7. NTUEE Summer Camp for High School, 2011, 2012
 - **Staff** (2011) and **leader** (2012) of photography division
 - Daily news and newspaper production in camp days

CONFERENCE ATTENDANCE

- China R Conference, Beijing, May 2014
- PyCon APAC, Taipei, May 2014
- Taiwan R Conference, Taipei, Dec 2013
- PyCon APAC, Tokyo, Sep 2013
- COSCUP, Taipei, Aug 2013

- PyCon Taiwan, Taipei, May 2013
- American Association for Cancer Research (AACR), Washington D.C., Apr 2013
- WebConf Taiwan, Taipei, Feb 2013
- AVS 59th International Symposium & Exhibition, Tampa, Florida, Oct 2012