Liang Bo Wang
Curriculum Vitæ

Experience

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Current, from Jul 2014

Internship at Microsoft Research Asia, Beijing
Cancer Image and Pathway Analysis

Identified potential colorectal cancer subtype reported by pathologist. Extracted histopathology image features using CNN trained by ImageNet, a large general image database. Conducted pathway and prognosis analysis based on image clustering. Became familiar with machine learning algorithms and image analysis.

Current, from Jul 2012

Project Research at Bioinfo. and Biostat. Core Lab, NTU Center of Genomic Medicine
NGS Tool Development and Cancer Research

Developed tools for online NGS data processing and visualization. Designed the cloud service in collaboration with company and governmental institution. Built background of genetic cancer research and survival analysis using both microarray and sequencing data.

Feb 2012 – Nov 2012

Project Research at Micro & Nano Analytical Tech. and System Lab, NTU
CMOS-based Tactile Sensor System

Designed the amplification circuit for signal measurement and related program. Became familiar with CMOS fabrication and IC layout design.

Publications

Journal	Large Scale Tissue Histopathology Image Classification and Segmentation via Deep Convolutional Activation Features
	IEEE Trans. Med. Imag. (submitted) Jan 2015
Poster	Nextbiopy: utilities for next-generation sequencing data processing (1st author)
	APCMBE in Tainan, Taiwan Oct 2014
Poster	Identification of novel miRNAs in breast data of the next generation sequencing using miRDeep2 and Galaxy (2nd author)
	AACR in Washington, USA Apr 2013
Review	Common applications of next-generation sequencing technologies in genomic research (co-1st author)
	Transl Cancer Res Feb 2013
Oral	CMOS MEMS metal-based tactile sensors development (presenter)
	AVS in Tampa, USA Oct 2012

Education

Jan 2014 – Present	**Master of Science** Expected Jun 2015 Biomedical Electronics and Bioinformatics *National Taiwan University*
Sep 2009 – Jan 2014	**Bachelor of Science** Electrical Engineering Economics (minor) *National Taiwan University*

Awards

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

Programming Skills

Languages	Python, R, Javascript(Coffeescript), HTML/CSS, LaTeX, Scala, C, SQL
Proficient Tools	Numpy, Pandas, RPy2, Matplotlib, IPython, ggplot2
Familiar OSes	Debian Linux, Mac OSX

Activities

2014, 2015	PyCon APAC Organizer *Public Relation and Web Editor*
2013 – Present	Taiwan R User Group *Co-organizer and Speaker*
2013 – 2014	Taiwan and China R Conference *Speaker*
2009 – 2013	NTU Photo Club *President and Leader of Education*
2011, 2012	NTUEE Summer Camp for High School *Staff and Leader of Photography*