Jennifer Chih-Yuan Su

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Education

University of Maryland College Park, MD
ME, Bioengineering Expected May 2015
National Yang-Ming University Taipei City, Taiwan
BS, Biomedical Engineering June 2013

Work Experience

Center for Bioinformatics and Computational Biology University of Maryland, College Park
Research Assistant July 2014 – now

- Statistically analyzed data in choosing appropriate K-mers for the highest quality of RNA alignment with specialized R scripts / BASH scripts
- Evaluated RNA splicing in UNIX environment with RNAseq Analysis tools
- Performed the results by statistical models and plots for weekly presentation

Yourgene Bioscience Co. New Taipei City, Taiwan
Intern Engineer & Bioinformatic Programmer July 2012 – July 2013

- Developed and Applied c/c++ programs to improve the average length of contigs and contig coherences of mate pairs sequencing
- Worked as a lab team member to prepare short---read DNA fragments for Illumina
- Evaluated the development of Bio-Information Technology and authored reports

Project Experience

Coronary Artery Stent Design &Analysis Oct 2014 – Dec 2014

- Used CERO to develop 316L Stainless Steel artery stent made of that prevents stroke with higher biocompatibility and corrosion resistance
- Programed an animated artery expansion by pressure and thermal simulation

Tissue Engineered OPF Heart Valve Using 3D Printing Technology Feb 2014 – May 2014

- Proposed a solution to enhance tissue engineered heart valve with 3D printing techniques
- Wrote 10 page research report in FDA medical publication form

Cardiomyocyte Differentiation on Crosslinked Collagen Scaffold July 2011 – June 2012

- Established image system to analyze scaffold construction with Matlab
- Demonstrated iPS cells differentiation to cardiomyocyte on collagen scaffold by controlling the concentration of EDC/NHS

Embedded System: Direct Memory Access (DMA) December 2012

- Designed DMA controller with focus in optimizing the codes to gain efficiency

Relevent Skills

Programming Languages: R (main), SQL, C/C++, Matlab, Perl, Python, Verilog
Computer Skills: Unix, Bowtie, Salmon, CREO (CAD), Microsoft Office
Languages: Chinese

Leadership Experience

Outside Campus Institution Visit: Main Organizer Spring 2012

- Held a visit to Industrial Technology Research Institute and United Orthopedics Co. for Biomedical Students to help students know industry development
- Coordinated with representatives in cooperation, students and professors

2nd Cross-Strait Medical Student Communication and Cooperation: Activity Organizer Spring 2011

- Held the open ceremony, academic forum and farewell party during 2011 Medical Communication
- Coordinated with other activity group from other medical schools