CURRICULUM VITAE

Ching Kai Douglas Wu

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OBJECTIVE

Intership opportunity working data-intense biology-related projects.

EDUCATION

The University of Texas at Austin (UT Austin)   **Austin, TX**

PhD student, Institute of Cellular & Molecular Biology   *Fall 2013-present*

- Joint advisors: Dr. Alan M. Lambowitz and Dr. Claus O. Wilke

University of Illinois at Urbana Champaign (UIUC)   **Urbana, IL**

B.S. (GPA of 3.67), Biochemistry   *Fall 2009-Spring2013*

- Biochemistry High Distinction Award
- Dean List (Fall 2010, Spring 2011)
- Member of Alpha Lambda Delta Honor Society (Since 2009)

RESEARCH EXPERIENCE

Prof. Alan Lambowitz's Lab   **Austin, TX**

Institute of Cellular and molecular Biology   *Winter 2013-present*

The University of Texas at Austin

- Constructed leukemia T-cell (Jurkat cell) whole cell RNA-seq library
- Perform RNA-seq analysis for exosomal RNA-seq and plasma RNA-seq data
- Apply mathematical models on RNA-seq data
- Submitted and prepared 3 manuscripts.

Prof. Ning Wang's lab   **Urbana, IL**

Department of Mechanical Engineering   *Spring 2010-Spring 2013*

University of Illinois at Urbana Champaign

- Studied force-induced biochemical changes in embryonic stem cells
- Examined the stress-induce disruption of cajal body using CFP-SMN, YFP-Coilin Hela cells
- Worked on 3D-culturing melanoma B16F1 cells, tumorigenic cells, Embryonic stem cells in fibrin matrix
- Co-authored 4 publications

Prof. Mary Waye's Lab   **Hong Kong**

Department of Biochemistry   *Summer 2010*

Chinese University of Hong Kong

- Investigated KIAA0319 gene on suicide and musically perfect pitch using human DNA extracted from saliva as experimental subject
- Wrote a review on miRNA

SKILLS

- Languages: Fluent in writing and speaking Mandarin Chinese, Cantonese Chinese
- Programming Languages: *Python, R, Bash, Matlab, Octave*, LATEX, *MySQL*, IGV scripts, *C++/C*
- Working knowledge of High Performance Computing: SGE Batch Environment (TACC lonestar), SLURM (TACC stampede)
- Working knowledge of High throughput Computing/ Grid computing: HTcondor