

CURRICULUM VITAE

Ching Kai Douglas Wu

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OBJECTIVE

Internship 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-Spring 2013

- 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

Spring 2013-present

The University of Texas at Austin

- Leukemia T-cell (Jurkat cell) whole cell RNA-seq library
- RNA-seq analysis for exosomal RNA-seq and plasma RNA-seq data
- Applying mathematical models on RNA-seq data

Prof. Ning Wang's lab

Urbana, IL

Department of Mechanical Engineering

Spring 2010 - Spring 2013

University of Illinois at Urbana Champaign

- Study force-induced biochemical changes in embryonic stem cells
- Examine the stress-induced disruption of cajal body using CFP-SMN, YFP-Coilin HeLa cells
- 3D-culturing melanoma B16F1 cells, tumorigenic cells, Embryonic stem cells in fibrin matrix

Prof. Mary Waye's Lab

Hong Kong

Department of Biochemistry

Summer 2010

Chinese University of Hong Kong

- Investigate KIAA0319 gene on suicide and musically perfect pitch using human DNA extracted from saliva as experimental subject

SKILLS

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