**Zhonghao Cui**

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**Objective** Summer Research position in Biomedical Engineering or Biology

**Education Bachelor of Engineering, Biomedical Engineering, May 2016**

The University of Texas at Austin, Provisional Admission to UT Southwestern Medical School

Overall GPA: 3.83/4.00

**Related Courses**

Microcontrollers and Embedded Systems, Physical Chemistry, Biochemistry, Organic Chemistry, Genetics, Advanced Genetics, Introduction to Computing, Biomedical Engineering Design, Differential Equations, Systems Physiology, Signals and Systems Processing

**Experience**

6/2011 – 3/2013 **Student Researcher, Norman Chiu Lab, University of North Carolina at Greensboro**

* Created and presented a micro-RNA expression analysis and modelling program
* Interacted daily with PhD students, professors, and department staff
* Replaced time-consuming calculations with automated computing through a software program
* Developed a strong sense of organization and time management

7/2013 – 8/2013 **Clinical Observership, University Medical Center at Brackenridge**

* Observed physicians, nurse practitioners, and various therapists
* Interacted with patients and their families on a regular basis
* Set up and implemented a diabetes education health fair

6/2014 – 8/2014 **Clinical Internship, UT Southwestern Medical Center**

* Interacted with patients and learned how to take a medical history
* Interviewed mock patients and interacted with Medical School students on rounds
* Participated in differential diagnoses sessions with physician teams

**Academic Experience Functional Genomics Project, The University of Texas at Austin**

* Established strong background of knowledge in Genomics
* Analyzed gene expression and sequence mutations in starved cells
* Investigated amino acid starvation effects on genomic mutations
* Collaborated with other lab members to implement a large-scale project

**Jiang Lab on Systems Immunology, The University of Texas at Austin**

* Established strong background of knowledge in Genomics and Systems Immunology
* Worked alongside doctoral students in developing a model for predicting T-cell receptor functionality with affinity assays
* Presented findings at Biomedical Engineering Undergraduate Poster Session, December 2014

**Skills Proficient** in Java, C, Assembly, Microsoft Word, Excel, PowerPoint, MATLAB, Flow Cytometry, Advanced Cell Culture and Bio-hazardous Material Management,

**Familiar** with LabView, SolidWorks CAD, Electrical wiring/circuitry, Microcontrollers/Embedded Systems, Polymerase Chain Reaction (PCR), Spectrophotometers, Strong problem solving and debugging skills

**Accomplishments** Provisional Early Admission, UT Southwestern Medical School

University Honors, Fall 2012

University Honors, Spring and Fall 2013

University Honors, Fall 2014

Recipient, Ernest J. Cockrell Engineering Honors Scholarship, 2012-Present

Volunteer: Lion’s Club, Biomedical Outreach and Leadership Team (BOLT)