

CHARLES (CHENYU) FENG

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OBJECTIVE

A technology consultant or biomedical research and development position during the summer of 2008.

EDUCATION

B.S./M.S. Student – University of Illinois at Urbana-Champaign, Anticipated graduation date May 2009 **GPA: 3.87/4.00**
Bachelor's and Master's degrees in Bioengineering focusing on Electrical Systems/Imaging, minors in Computer Science and Chemistry.

WORK EXPERIENCE

Harvard-MIT HST Summer Institute in Biomedical Optics *June 2007 – August 2007*

- Conducted research in optical coherence tomography (OCT) under Prof. Johannes DeBoer at the Wellman Center for Photomedicine, Harvard Medical School
- Independently investigated the reduction of coherent speckle through the use of a micro-deformable mirror
- Preparing a first-author publication to be submitted to *Optics Express*, the highest impact optics journal as rated by SCI

Research Scholar – Chemical Imaging and Structures Laboratory, UIUC *January 2006 – Present*

- Investigating the automated diagnosis of skin cancer via infrared spectroscopic techniques and advanced pattern recognition
- Collaborating with Dr. Michael Goldwasser and Dr. Frank Bellafiore at the Carle Clinic

Private Tutor – Sabio Academy *December 2006 – Present*

- Teaching junior high and high school competition mathematics, drawing from personal expertise to train students to excel at regional, state and national level competitions
- Creating an AP Chemistry curriculum with more focus on underlying principles and strategies than regular coursework in order to provide more rigorous training for the AP test

Metaspectra™ – Inventor, Lead Developer, Webmaster *May 2006 – Present*

- Created and developed an online database of spectral data, centered on applications to human pathology
- Applying for a government grant to develop more advanced features to simplify data retrieval and analysis

Howard Hughes Medical Institute Undergraduate Research Fellow *June 2006 – August 2006*

- Continued development of Metaspectra and research in the Chemical Imaging and Structures Laboratory under a grant from the Howard Hughes Medical Institute
- Worked full-time at the laboratory headquarters in the Beckman Institute for Advanced Science and Technology

Fenguin Design – Private Web Design Business *October 2004 – Present*

- Created websites for both individuals and organizations
- Expert in the HTML, Javascript, PHP, MySQL, MSSQL, and CSS web programming languages in addition to graphic design using Adobe Photoshop and Adobe Illustrator

LEADERSHIP

Director – Engineering Undergraduate Research Opportunities Program (EUROP) *August 2006 – Present*

- Providing opportunities for highly talented students to pursue undergraduate research with UIUC faculty
- Assisting with publication of the Illinois Journal of Undergraduate Research (IJUR) in addition to planning of the Graduate School Conference and Undergraduate Research Workshop

Vice President – Future Medical Research Investigators Pre-MD/PhD organization *August 2006 – Present*

- Co-hosting presentations from MD/PhD program directors, students and graduates nationwide
- Setting up a mentoring program between current UIUC MD/PhD students and members of the organization
- Planning a symposium for corporate speakers to provide students insight on future career paths post-MD/PhD
- Created an online database of summer research opportunities for pre-medical students

HONORS

Dean's List

Edmund J. James Scholar

Phi Eta Sigma Honor Society

Golden Key Honor Society

Robert C. Byrd Merit Scholarship

National AP Scholar 2004, 2005 – Entered UIUC with 114 credit hours and senior standing

National Champion – AMATYC Student Mathematics League Math Contest 2004-2005
(only contestant with a perfect score)

ADDITIONAL ACTIVITIES

August 2006 – Present **American Medical Student Association**