

Alexander D. Leung
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EDUCATION

Boston University College of Engineering, Boston, MA

- Bachelor of Science in Biomedical Engineering, expected in May 2011
- GPA: 3.63/4.0
- Dean's List (Three semesters)

EXPERIENCE

Children's Hospital Boston

January 2009 – present

Clinical Assistant

- Perform Pulmonary Function Tests (spirometry) on children
- Obtain vitals on children (newborns to 18 years old)

National Jewish Health

June 2005 – August 2008

Lab Researcher

Denver, CO

- Designed methods for collecting house dust and isolating DNA from it.
- Developed procedure for transfecting TLR plasmids into HEK-293 cells.
- Troubleshoot and repaired laboratory equipment.

BU College of Engineering

Boston, MA

Tien Research Lab

January 2009 – present

- Design computer models of microvascular networks using Comsol Multiphysics.

Alpha Epsilon Delta

January 2009 – present

- Treasurer of premedical honor society
- Community service events such as Charles River Earth Day Cleanup

Dean's Host

September 2008 - Present

- Conduct campus tours and address questions for prospective students.

SKILLS

Laboratory skills: cell culture, pipetting, sterile technique, DNA isolation, Real time PCR, Limulus Endotoxin Assay, Luciferase Assay, and transfection.

Computer skills: Matlab, Comsol Multiphysics, Excel, Word Processing, PowerPoint.

Certifications: Emergency Medical Technician-B, Human Subjects Protection

PUBLICATIONS

A. D. Leung, A. M. Schiltz, C. F. Hall, A. H. Liu. Severe atopic dermatitis is associated with a high burden of environmental *Staphylococcus aureus*. Clin Exp Allergy 2008; 38: 789-793.

Leung AD, Schiltz AM, Hall CF, et al. Quantitative real-time PCR of *Staphylococcus aureus* DNA reveals high levels in bed, floor, and vacuum dust in children with severe atopic dermatitis (AD). *J Allergy Clin Immunol* 2007; 119(1): S283 (presented at the 2007 American Academy of Allergy, Asthma & Immunology International Meeting)

Leung AD, Schiltz AM, Liu AH. Bacterial DNA and endotoxin are higher in the bedding dust of people with atopic dermatitis. *J Allergy Clin Immunol* 2006; 117(2): S234;

Leung AD, Hall CF, Kedl RM, Liu AH. People with Moderate/Severe Atopic Dermatitis Have Higher Human TLR4-Specific Ligand Levels in Bedding Dust, Not Discerned By Conventional Endotoxin Assay. Published in *J Allergy Clin Immunol* 2009; 123(2): S34 (presented at the 2009 American Academy of Allergy, Asthma and Immunology Annual Meeting, Washington, DC).