

Customized Vision Correction Lab

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Biomedical

Engineering Career

Conference

(UNYBECC)

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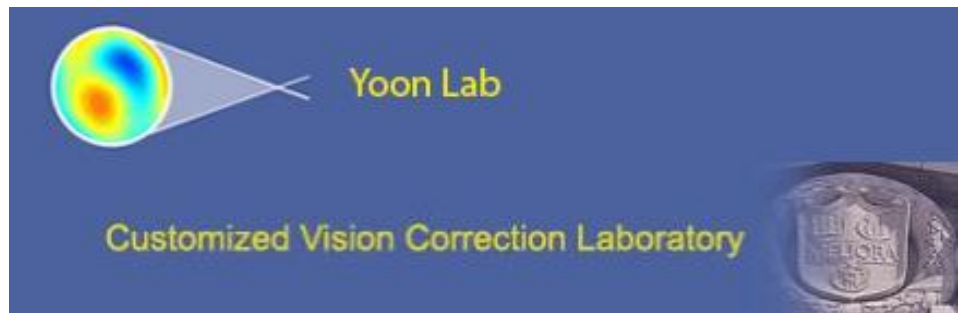
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The Customized Vision Correction Lab headed by Geonyoung Yoon, Ph.D., is one of several research labs

at the newly dedicated Phlaum Eye Institute in the U of R Medical Center. The lab brings together undergraduates through post-doc researchers with extensive backgrounds in optics to innovate new ways of quantifying

and correcting the optical imperfections of the eye. The

even refractive eye surgery (LASIK). Unlike today's correc-



lab seeks to understand how every optical element, from the tear film to the lens, contributes to image formation on the retina. One main area of research is higher order aberration correction through contact lenses, glasses and

tive techniques which ignore each individual's unique optical "fingerprint", Yoon hopes to create subtle personalized solutions that can improve vision beyond today's 20/20 standards. -Brett Sternfield, Brian Dixon, class of 2011

UNYBECC 2010

UPSTATE NEW YORK BIOMEDICAL ENGINEERING CAREER CONFERENCE

April 16, 2010
Rochester, NY

Showcasing the Future of Biomedical Engineering

Hosted by the University of Rochester, Department of Biomedical Engineering, and Rochester Institute of Technology

The Upstate New York Biomedical Engineering Career Conference (UNYBECC) 2010 brings together students and practitioners of Biomedical Engineering and the Life Sciences for panel discussions, technical sessions, and informal exchange of ideas important to the future of Biomedical Engineering.

The conference will

- Assist participants in planning their academic and industrial careers
- Introduce companies to the talents and skills of biomedical engineers from throughout NY/PA/Canada
- Expose participants to innovative research in biomedical engineering and allied areas

UNYBECC 2010 is hosted by the Department of Biomedical Engineering at the University of Rochester and Rochester Institute of Technology.

All universities and companies are welcome to attend.

www.unybeconference.org

Schedule

8:30-9:00 am	Registration/ <i>Continental Breakfast</i>
9:00-9:10 am	Introduction and Opening Remarks
9:10-9:50 am	Keynote I
9:50-10:30 am	Keynote II
10:30-10:40 am	<i>Break</i>
10:40-Noon	Concurrent Sessions I*
Noon-1:30 pm	<i>Lunch</i> and Poster Session
1:30-2:40 pm	Concurrent Sessions II*
2:40-2:50 pm	<i>Break</i>
2:50-4:00 pm	Concurrent Session III*
4:00-6:00 pm	Career Networking Session and <i>Reception</i>

*Concurrent Sessions:

- I Noninvasive/Minimally Invasive Technologies
Translational Research
BME Careers I
- II Biomaterials
Entrepreneurship
BME Careers II
- III Diagnostics and Pharmaceutical Industry
Optics and Imaging
BME Careers III-Marketing your degree

Conference Highlights

Panel Sessions: Participate in a discussion on the future of the expanding biomedical industry. Discuss a variety of career options and the best way to get connected from panelists in industry. Learn about entrepreneurial activities and translational research in BME. Finally, hear about some of the latest trends in biomedical engineering and interact with BME student researchers in the poster session.

Poster Session: Showcases student research from various universities. **ABSTRACT DEADLINE — April 2, 2010**

Career Networking Session: Brings together students and medical device/pharmaceutical/biotechnology companies for an exchange on career opportunities.



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BMES
members
will get
reimbursed
\$10 and
new BMES
members
who sign
up now get
\$15 back!

Graduate Student Profile: Michael Hoffman

Department of BME: PhD Program



Where are you from?

I am originally from the great city of Rochester, New York.

How have your experiences with BME been thus far?

So far my experiences within biomedical engineering have been

absolutely great. Looking back at my time at the University of Rochester thus far I would not change a single thing. I know that I made the right choice, I am happy, BME is the perfect combination of medical science, problem solving, and creativity; I love it.

In whose lab do you work? In what area will you focus in your graduate studies?

Currently I am rotating between labs in an effort to determine where I want to do my thesis research. I just finished work with Professor Awad where I looked at the effect of growth factors on cell contraction within a collagen matrix as a tendon wound healing model. Now I am working with Professor DeLouise studying how surface charge affects quantum dot skin penetration. My final rotation will be with Professor Benoit where I hope to learn a great deal about hydrogel drug delivery applications. My hope

is that future research opportunities will allow me to investigate a combination of wound healing mechanisms, drug delivery, and novel biomaterial applications.

What are your long term goals?

Once I graduate I would like to pursue a career in the implantable medical device industry with a focus on improvements in biocompatibility and biointegration. My hope would be that I would be able to have a hands on role in working to develop new and innovative materials. Somewhere down the road I could possibly see myself retuning to a classroom setting, potentially teaching at a small local University.

What do you do for fun?

What did you do outside BME as an undergrad?

I am an endurance triathlete so for fun I love to train. You can usually find me in the pool every morning and out on the road running or biking in the evening. I have been a swimmer all my life and ran cross-country in high-school so it was a natural transition into the sport of triathlons. Today I spend time training for Ironman

length races; 2.4 mile swim, 112 mile bike, 26.2 mile run. As an undergrad I was a member of many of the on campus clubs including the cycling and water polo teams.

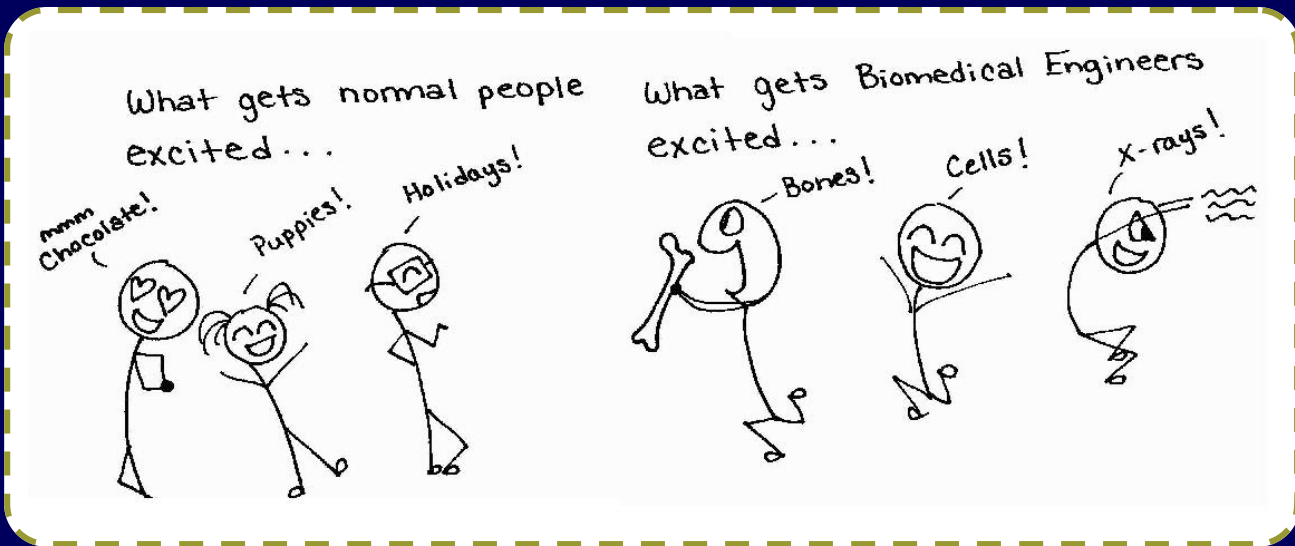
Do you have any advice for rising undergraduates?

The biggest advice that I have for the undergrads is to take full advantage of what the University has to offer, specifically in the areas of research opportunities. Everyone should try their hands at lab research at least once; while it is not for everyone, you can learn a great deal about what truly interests you. So to all you undergraduates out there reading this: get in a lab! Even if it is only volunteering for a couple of weeks, you will learn a lot and it will help you focus on what you want to do once graduation roles around.

Random fact about self?

I love to cook and experiment with food; I would describe myself as a culinary scientist. Also, I am one of the first people to get to the BME building every morning; usually around 6:00AM on my way to the gym.

-Benjamin Freedman,
Class of 2011



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to April
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Left Side

Right Side