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Education:

B.S. Chemical Engineering; Chemistry Minor
University of Utah, Salt Lake City, Utah

May, 2006
Cumulative GPA: 3.43

M.S. Biomedical Engineering
University of Utah, Salt Lake City, Utah

Dec, 2009

Computer Skills:

Matlab, Prism graphpad, Adobe Fireworks, MS office, Maple, Polymath, Design Expert, Photoshop, basic HTML.

Language Skills:

Fluent Chinese.

Employment History:

- University of Utah
Research Assistant May, 2008 - present
Study of DNA methylation as biomarker for cancer prognosis via real-time microarray detection; recombinant plasmid subcloning, protein expression, and purification of Methyl Binding Domain (MBD) protein using affinity and gel filtration columns; compiled Matlab code for array spot-finding and data analysis.
- University of Utah
Research Assistant Aug, 2006- May, 2008
Fabrication of Tapered Optical Fiber (TOF) for Surface Plasmon Resonance (SPR) application.
- Ceramatec, Inc
CO-OP Sept, 2005-May, 2006
Produced batches of bioceramic beads for spinal cord replacement, operated furnace to sinter hydroxylapatite (HA) beads, prepared ceramic slip for optic fiber purposes.
- University of Utah, Salt Lake City, Utah
Undergraduate Research Opportunity Jan, 2005-Aug, 2005
Performed Solid Phase Peptide Synthesis (SPPS), and peptide purification via HPLC gradient method for hydrogel application.

- Lipocine Inc., Salt Lake City, Utah
Summer Intern June, 2004-Jan, 2005
Ran stability and dissolution testing of drug capsules via VanKel600 dissolution machine; non-linear least square data fitting for pharmacokinetic model; extraction of drug capsules for analytical HPLC.
- DNA Sequencing Core Lab, Salt Lake City, Utah
Lab Assistant Sept, 2003-June, 2004
Operated robotic machine to prepare DNA samples for sequencing; operated PCR machine and DNA analyzer ABI 3730; analyzed chromatogram for possible errors; followed protocol to extract DNA from mouse tissues and check for the presence of viruses by OD spectroscopy.
- University of Utah, Salt Lake City, Utah
Undergraduate Research Opportunity Jan, 2004-May, 2004
Monitored the adsorption activity of Adenovirus type 5 (Ad5) vector on heparin sulfate using Surface Plasmon Resonance (SPR); developed protocols for derivatizing gold surface for SPR monitoring.
- Industrial Assessment Center (IAC), Salt Lake City, Utah
Report Writer Sept, 2002-Sept, 2003
Developed recommendation template for geothermal cooling/heating system; analyzed data such as utility bills and measurements of facility equipment to determine energy and cost savings for mid-size private companies.

Honors:

Honors at Entrance Scholarship 2001-2002;
Program for Diversity in Engineering 2003;
Qwestar Scholarship 2005.

Presentation/publication:

Yu, Y. *Tapered optical fiber for surface plasmon resonance*, AiChE Conference, Salt Lake City, UT, 2007.

Yu, Y. *Mass Transport in Analysis of Polynucleotides by Localized Surface Plasmon Resonance in Gold Nanoparticles on Optical Fibers*, AiChE Conference, San Francisco, CA, 2006.

Yu, Y., Phillip, B., Roper, K., *Tapered optical fibers designed for surface plasmon resonance phase matching*, *Langmuir*, **2009**, 25 (1), pp 59–63