# YINNI YU

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## Summary

Self-motivated Bioengineer with experience in biotechnology R&D utilizing microarray platforms, immunoassay applications, and analytical methods. Proficient in applying Matlab and Excel for programming and data analysis. Consistently prioritize tasks and efforts to deliver project goals on time.

## Skills and Knowledge

- ❖ DNA/RNA extraction, plasmid subcloning, recombinant protein expression, protein purification, Western Blotting, cell culturing
- ❖ HPLC (analytical and preparatory), qPCR, SPR kinetics, Bradford/BCA protein assay, lyophilization
- ❖ Computer skills: MS Office Suites, Matlab, Minitab, Aspen Plus, Design Expert, GraphPad Prism, HTML
- ❖ Proficiency in Chinese

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## Professional Experience

**MBio Diagnostics,** *Boulder, CO*
Product Development Scientist                                    June, 2012 -- March, 2013
- ❖ Responsible for implementing and testing modifications to cartridges for diagnostic assay.
- ❖ Applied statistical analysis to identify optimal formulation of assay reagents.
- ❖ Set up and ran accelerated stability study for assay reagents.
- ❖ Collaboration with other teams on technical requirements of product development.

**Anschutz Medical Campus,** *Aurora, CO*
Professional Research Assistant                                    June, 2010 -- June, 2012
- ❖ Extraction of rodent RNA and hybridization onto gene expression arrays.
- ❖ QC of array data, organized and imported files to online database.
- ❖ Performed qPCR for quantitation of gene expression in behavioral study.
- ❖ Supported other research projects by performing HEK cell culturing.

**Utah Photonics Research Group,** *Salt Lake City, UT*
Graduate Research Assistant                                    May, 2008 -- June, 2010
- ❖ Studied MBD protein-DNA binding kinetics via fluorescent microarray and multiplex SPR.
- ❖ Optimized assay performance using plasmid subcloning and recombinant proteins.
- ❖ Achieved protein purity of >90% with affinity and gel filtration purification methods.
- ❖ Improved project efficiency by utilizing Matlab for image processing and data analysis.

**University of Utah,** *Salt Lake City, UT*
Research Assistant                                    May, 2006 -- May, 2008
- ❖ Optimized fabrication of Tapered Optical Fiber (TOF) for potential biosensor application.
- ❖ Thin layer gold sputtering on TOF.

**University of Utah,** *Salt Lake City, UT*
Undergraduate Research Assistant                                    Jan, 2005 -- Aug, 2005
- ❖ Performed Solid Phase Peptide Synthesis (SPPS) for hydrogel application.
- ❖ Peptide purification by gradient HPLC and lyophilization of peptide samples.

**Lipocine Inc.,** *Salt Lake City, UT*
Summer Intern                                                                    June, 2004 -- Jan, 2005
 ❖ Responsible for stability and dissolution testings of drug capsules using analytical HPLC following GLP guidelines.
 ❖ Characterization of pharmacokinetic parameters through non-linear least square data fitting.

**DNA Sequencing Core Lab,** *Salt Lake City, UT*
Lab Assistant                                                                    Sept, 2003 -- June, 2004
 ❖ Handled customer inquiries and prepared samples for DNA sequencing in a timely manner.
 ❖ Maintained updates of online order and checked chromatograms for possible errors.

# Education

M.S. Bioengineering, 2010
*University of Utah, Salt Lake City, UT*

B.S. Chemical Engineering; Minor in Chemistry, 2006
*University of Utah, Salt Lake City, UT*

# Publication

1. Yinni Yu, Steve Blair, David Gillespie, Randy Jensen, David Myszka, Ahmed H. Badran, Indraneel Ghosh, and Alexander Chagovetz, *Direct DNA methylation profiling using methyl binding domain proteins*, **Analytical Chemistry,** 82, 5012-5019 (2010)

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

Dear Recruiter:

I am writing to express my interest in the Scientist position as advertised on Indeed's website. With a M.S. degree in Bioengineering plus work experience in biotechnology, I believe I can contribute to the functions of this job.

During the time I was Product Development Scientist at MBio Diagnostics, I optimized the formulation of assay reagents through statistical analysis, performed reagent lot validation and instrument testing. As a result, my project was a milestone for the one-step assay platform. Other tasks included developing SOPs and collaborating with other teams on technical requirements for product development. From past projects, I have acquired proficiency in using Matlab and Excel for programming, model fitting and statistical analysis (i.e., ANOVA, power analysis, correlation testing). I am also adept in software programs such as Microsoft Office Suites (i.e., Word, Excel, PowerPoint, Access), Design Expert, and Minitab. When it comes to collaboration throughout projects, I have always been a result-oriented team player with effective communication skills, and a track record for timely completion of assignments. I can adapt quickly to new projects and new technologies. Furthermore, I am highly organized in multitasking as well as data documentation.

Enclosed with this letter is my resume for your review. In addition, I am a naturalized citizen who has legal authorization to work in the U.S. Thank you for your consideration, and feel free to contact me to further discuss my qualification. I look forward to hearing from you!


Sincerely,

Yinni "Jenny" Yu