

Yong Woo

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Education

July 2004 – Present Ph.D. / Functional Genomics	University of Maine	Orono, ME
September 2000 – May 2001 A.M. / Applied Statistics	University of Michigan (UM)	Ann Arbor, MI
September 1998 – May 2000 M.S. / Pharmaceutical Sciences	University of Michigan	Ann Arbor, MI
September 1995 – August 1998 B.S. / Pharmacy	University of the Sciences in Philadelphia (USP)	Philadelphia, PA
<ul style="list-style-type: none">▪ Member of Alpha Delta Lambda, a freshman honor society, 1994▪ Member of Rho Chi, an honor society for professional pharmacy students, 1997		

Publications

Woo, Y, Krueger, W, Kaur, A, Churchill, G. Experimental Design for Three-Color and Four-Color Gene Expression Microarrays. Manuscript in submission

Woo Y, Affourtit J, Daigle S, Viale A, Johnson K, Naggert J, Churchill G. (2004) A comparison of cDNA, oligonucleotide, and Affymetrix GeneChip gene expression microarray platforms. *J Biomol Tech.* 15(4):276-84.

Research Experience

2003 – Present Experimental Design Issues of Three- and Four-Color Microarray Experiments	The Jackson Laboratory	Bar Harbor, ME
<ul style="list-style-type: none">▪ With Gary Churchill, a Senior Staff Scientist at the Jackson Laboratory, the experimental design issues of three- and four-color microarray experiments were investigated. Cyclic designs, in particular, were selected due to its high efficiency as well as practical issues. A manuscript is in submission		
2003 – 2004 Comparison of Different Platforms in Microarray Technology	The Jackson Laboratory	Bar Harbor, ME
<ul style="list-style-type: none">▪ This study was designed to compare several gene expression platforms to evaluate the variability associated with different microarray platforms. Worked as a data analyst comparing and assessing the accuracy and precision of each platform.		

Work Experience

August 2002 - June 2004 The Jackson Laboratory Bar Harbor, ME

Biostatistician

- As a biostatistician, provided data analysis and consulting services for microarray and general biology experiments. Responsible for training the scientific staff on how to use JMP for data analysis.

December 2001- June 2002 Farmer Jack Pharmacy Ypsilanti, MI

Pharmacist

- As a pharmacist, managed a pharmacy store by filling prescriptions, counseling patients, and communicating with doctors.

May 2001 - November 2001 Farmer Jack Pharmacy Ypsilanti, MI

Pharmacy Graduate Intern

- As an intern, assisted pharmacists with the various aspects of dispensing process: reading and filling prescriptions appropriately.

December 1996 – January 1997 USP Department of Mathematics Philadelphia, PA

Research Assistant

- Utilized TeX program in creating a course-pack. Demonstrated problem-solving skills by assisting in development and organization of a course-pack.

1995- 1996 USP Computer Lab Philadelphia, PA

Computer Lab Assistant

- Communicated solutions to students with a variety of computer problems.

Relevant Courses

Statistics

- Applied Multivariate Statistics, Biological Sequence Analysis, Statistical Genetics, Experimental Design, Introduction to Linear Algebra, Multivariate Calculus, Differential Equations, Applied Statistics Using S-Plus, Introduction to Probability and Statistical Inference

Biological & Pharmaceutical Sciences

- Biochemistry Lab Course, Analytical Chemistry, Molecular Biology, Gene Regulations & Structure, Critical Discussions in Bioinformatics, Basic and Advanced Pharmacokinetics, Chemical Kinetics, Transport Phenomena, Principles of Drug Delivery