

Zhijin (Jean) Wu
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EDUCATION

B.S.: Biochemistry and Molecular Biology, Peking University, 1997
M.S.: Molecular Biology, University of Southern California, 2000
Ph.D.: Biostatistics, Johns Hopkins University, 2005
Dissertation: Probe Level Models for DNA Microarrays

PROFESSIONAL APPOINTMENTS

July, 2005—present: Assistant Professor
Department of Community Health, Section of Biostatistics
Brown University

PUBLICATIONS

Chapter in Books:

Bolstad, B. M., Irizarry, R. A., Gautier, L. and **Wu, Z.** Low-level analysis and Pre-processing of Affymetrix GeneChip data. *Bioinformatics and Computational Biology Solutions Using R and Bioconductor*. Springer 2005

Referred Journal Articles:

Irizarry, RA, **Wu, Z** and Jaffee, H (2006)
Comparison of Affymetrix GeneChip Expression Measures. *Bioinformatics*

Wu, Z, Irizarry, RA, Gentleman, R, Martinez Murillo, F and Spencer, F (2004) A Model Based Background Adjustment for Oligonucleotide Expression Arrays. *Journal of the American Statistical Association*, 99(468):909-917.

Wu, Z and Irizarry, RA (2004) Preprocessing of oligonucleotide array data. *Nature Biotechnology* 22: 656 - 658.

Wu, Z and Irizarry, RA (2004) Stochastic Models Inspired by Hybridization Theory for Short Oligonucleotide Arrays. *Proceedings of RECOMB 2004*

Cope, LM, Irizarry, RA, Jaffee, H, Wu, Z and Speed, TP (2003) A Benchmark for Affymetrix GeneChip Expression Measures. *Bioinformatics* 20: 323-331.

Irizarry, RA, Ooi, SL, **Wu, Z**, and Boeke, J (2003) Use of Mixture Models in a Microarray-Based Screening Procedure for Detecting Differentially Represented Yeast Mutants. *Statistical Applications in Genetics and Molecular Biology* 2(1).

Wu, Z, **Wu, Z**, Wiegandt, DA and Nassar, CR (2003) High-performance 64-QAM OFDM via carrier interferometry spreading codes. *Vehicular Technology Conference, 2003 IEEE 58th*

Peng, J, **Wu, Z**, Wu, Y, Hsu, M, Stevenson, FF, Boonplueang, R, Roffler-Tarlov, SK and Andersen, JK. (2002) Inhibition of caspases protects cerebellar granule cells of the weaver mouse from apoptosis and improves behavioral phenotype. *J Biol Chem* 277(46):44285-91.

Viswanath, V, **Wu, Z**, Fonck, C, Wei, Q, Boonplueang R and Andersen, JK. (2000) Transgenic mice neuronally expressing baculoviral p35 are resistant to diverse types of induced apoptosis, including seizure-associated neurodegeneration. *Proc Natl Acad Sci U. S. A.* 97(5):2270-5.

Invited Lectures:

April 11, 2005

A Model-based Background Adjustment for Oligonucleotide Expression Arrays.
National Cancer Institute, Biostatistics Branch, Division of Cancer Epidemiology and Genetics

May 3, 2005

Unifying model for probe level microarray data
National Cancer Institute, Biometric Research Branch, Division of Cancer Treatment and Diagnosis

ACADEMIC HONORS

- 2005 Margaret Merrell Award for outstanding research
Department of Biostatistics
Johns Hopkins Bloomberg School of Public Health
- 2005 Third Place, Delta Omega Poster Competition
Johns Hopkins Bloomberg School of Public Health