

CURRICULUM VITAE

Jing Qiu

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EDUCATION

- **Ph.D.** in **Statistics, Cornell University**, Ithaca, NY (August 2004)
- **M.S.** in **Statistics, Cornell University**, Ithaca, NY (May 2002)
- **B.S.** in **Information management and decision theory, University of Science & Technology of China**, Hefei, P.R. China (July 1998)

POSITIONS AND EMPLOYMENT

- September 2004-Present: **Assistant Professor of Statistics**, University of Missouri-Columbia
- September 2004-Present: **Missouri Agricultural Experiment Station Consulting Statistician**, University of Missouri-Columbia
- September 1998-May 2004: **Teaching Assistant**, Cornell University
- Spring 2003: **Research Assistant**, Jackson Laboratory
- Summer 2000: **Internship**, Food and Drug Administration

METHODOLOGICAL PAPERS

Srivastava, G.P., **Qiu, J.** and Xu, D. (2009). "Genome-wide functional annotation by integrating multiple microarray datasets using meta-analysis", invited by International Journal of Data Mining in Bioinformatics, submitted.

Qiu, J. and Cui, X. (2009), "Statistical equivalence test applied to microarray data", submitted.

Srivastava, G.P., Joshi, T., Song, Z., Zhang, C., Lin, G.N., Li, P., Ross, A., Popescu, M., Liu, J.D., **Qiu, J.**, Xu, D. (2009) "GO- based gene function and network characterization", Book chapter of "Data mining applications using ontologies in biomedicine", Artech House, in preparation.

Qiu, J. and Hwang J.T.G. (2009), "Reply to Dr. Glimm's comment on Qiu and Hwang (2007), *Biometrics* 63, p. 767-776", *Biometrics*, in press.

Hwang, J.T.G., **Qiu, J.** and Zhao, Z. (2009) "Empirical Bayes Confidence Intervals Shrinking Both Means and Variances", *Journal of Royal Statistical Society, Series B*, **71**, 265-285.

- Srivastava, G.P., **Qiu, J.** and Xu, D. (2008). "Functional Annotation from Meta-Analysis of Microarray Datasets", *Proceedings of the 2008 IEEE International Conference on Bioinformatics and Biomedicine*. Pages 367-371.
- Qiu, J.** and Hwang J.T.G. (2007), "Sharp Simultaneous Intervals for the Means of Selected Populations with Application to Microarray Data Analysis", *Biometrics* **63**, 767-776.
- Cui, X., Hwang J.T.G., **Qiu, J.**, Blades, N.J. and Churchill, G.A. (2005), "Improved Statistical Tests for Differential Gene Expression by Shrinking Variance Components Estimates", *Biostatistics* **6**, 59-75.

SCIENTIFIC PAPERS

- Cui, X., **Qiu, J.** and Mrug M.(2009) Validation of housekeeping genes as internal control in real-time RT-PCR experiments in polycystic kidney studies, in preparation.
- Kumar, R, **Qiu, J.**, and Nguyen, H.(2008) "Gene-chip based polymorphism detection in rice", invited by *Methods in Molecular Biology*, *submitted*.
- Schulz, L.C, Widmaier E.P., **Qiu, J.**, and Roberts R.M. (2008) "Effect of Leptin on Mouse Trophoblast Giant Cells", *Biology of Reproduction*, in press
- Franck, W.L., Chang, W.S., **Qiu, J.**, Sugawara, M., Sadowsky, M.J., Smith, S.A. and Stacey, G. (2008). "Whole-Genome Transcriptional Profiling of *Bradyrhizobium japonicum* during Chemoautotrophic Growth.", *Journal of Bacteriology*, *190(20)*:6697-6705
- Kumar, R, **Qiu, J.**, Joshi, T., Valliyodan, B., Xu, D. and Nguyen, H. (2007), "Single Feature Polymorphism Discovery in Rice", *PLoS ONE* **2** (3):e284.

MANUSCRIPTS

- Qiu, J.**, Li, Q., Cui, X.Q. and Churchill, G.A. (2003) Biological Variation in Transcript Levels of Inbred Mice Revealed by Microarray Data Analysis, *Technical report*
- Qiu, J.** and Hwang, J.T. G. (2002) Improving upon Unconditional Mid P-value Test in 2-by-2 Contingency Table, *Technical report*

CONSULTING EXPERIENCES:

7. *Bradyrhizobium japonicum* project

February, 2009-Present, with Franck, B. and Stacey, G., Division of Plant Sciences, University of Missouri-Columbia

6. *Single Feature Polymorphism Discovery in Soybean*

May, 2007-Present, with Wu, X., Kumar, R. and Nguyen, H, Division of Plant Sciences, National Center for Soybean Biotechnology, University of Missouri-Columbia

5. *Proteo-genomics of Bacteroid Development*

February, 2007-Present, With Jeong, S. and Emerich, D., Division of Biochemistry,
University of Missouri-Columbia

4. Mouse Project

September, 2007-October, 2008, with Laura Schulz and Michael Roberts, Department of
Animal Science, University of Missouri-Columbia

3. *Bradyrhizobium japonicum* project

January, 2006-August, 2008, with Chang, W. S. Franck, B. and Stacey, G., Division of
Plant Sciences, University of Missouri-Columbia

2. *Single Feature Polymorphism Discovery in Rice*

Nov, 2005- August, 2008, with Kumar, R. and Nguyen, H, Division of Plant Sciences,
National Center for Soybean Biotechnology, University of Missouri-Columbia

1. *Soybean and Medicago project*

April, 2005-May, 2007, with Valliyodan, B., Pathan, M.S. and Nguyen, H., Division of
Plant Sciences, National Center for Soybean Biotechnology, University of Missouri-
Columbia

INTERDISCIPLINARY COLLABORATION

Statistical and Computational Analyses of multiple Sets of Microarray Data

March, 2006-Present, with Srivastava, G. P. and Xu, D., Digital Biology Laboratory,
Computer Science Department, University of Missouri-Columbia

TEACHING & ADVISING EXPERIENCE

- **Graduate Course:**

- Theory of Linear Model (Fall 2005 and Fall 2006, University of Missouri-Columbia)

- Introduction to Mathematical Statistics (Spring 2005, 2007 and 2008, Fall 2008, Spring 2009, UMC)

- Introduction to Probability Theory (Spring 2006, UMC)

- Analysis of Variance (Fall 2007, UMC)

- **Undergraduate Courses:**

- Introduction to Mathematical Statistics (Spring 2005, 2007 and 2008, Fall 2008, UMC)

- Introduction to Probability theory (Spring 2006, UMC)

- Analysis of Variance (Fall 2007, UMC)

- **Advising Students**

- Shimin Zhuang, graduated with M.S. in statistics, May, 2008

- Master Thesis: *Investigating the performance of false discovery rate controlling procedures for non-uniformly distributed p-values*

PROFESSIONAL SERVICES

- Committee on Women in Statistics, ASA, January, 2006-December, 2011
- Reviewer for Statistics in Medicine, JASA
- Organizer of IMS topic contributed session, JSM, 2007
- Chair of IMS contributed session, JSM, 2007
- Coordinator of Department Colloquium Series, University of Missouri-Columbia, 2007

HONORS/AWARDS

- Summer Research Fellowship of University of Missouri-Columbia, 2005
- GuoMoruo Scholarship (*the highest honor for undergraduate students*), University of Science & Technology of China, 1998
- Shekou Scholarship (*the highest honor for undergraduate students in Business School*), USTC, 1997
- Panasonic Scholarship, University of Science & Technology of China, 1996
- 1st class excellent student award, USTC, 1995
- New Star Award, USTC, 1994