

## Fei Zou Publications

### Refereed Articles:

**Zou, F.**, Nie, L., Wright, F.A. and Sen, P.K. (2008). A robust QTL mapping procedure. *Journal of Statistical Planning and Inference*. In Press.

Zhang, X, Wang, W., and **Zou, F.** (2008). FastANOVA: an efficient algorithm for genome-wide association study. *Proceedings of the 14th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (SIGKDD)*.

Ghosh, A., **Zou, F.**, and Wright, F.A. (2008). Estimating odds ratios in genome scans: an approximate conditional likelihood approach. *The American Journal of Human Genetics* 82: 1064-1074.

Huang, C., Qin, J. and **Zou, F.** (2008). Empirical likelihood-based inference for genetic mixture models. *The Canadian Journal of Statistics*, in press.

Sullivan, P. F., Lin, D.Y., Tzeng, JY, van den Oord, E., Perkins, D., Stroup, T. S., Wagner, M., Lee, S., Wright, F. A., **Zou, F.**, Liu, W., Downing, A. M., Lieberman, J., and Close, S. L. (2008). Genomewide association for Schizophrenia in the CATIE study. *Molecular Psychiatry*. 13(6):570-84.

Lee, S., Sullivan, P. F., **Zou, F.** and Wright F. A. (2008). Comment on a simple and improved correction for population stratification. *The American Journal of Human Genetics*, 82: 524-531.

Gelfond, J., Ibrahim, J. G. and **Zou, F.** (2007). Proximity model for expression trait loci detection. *Biometrics*, 63: 1108–1116.

Huang, H., **Zou, F.** and Wright, F. A. (2007). Bayesian analysis of loss of heterozygosity by modeling of frequency of allelic loss data. *JASA*, 102: 1245-1253.

Huang, H., Eversley, C. D., Threadgill, D. W. and **Zou, F.** (2007). Bayesian multiple quantitative trait loci mapping for complex traits using markers of the entire genome. *Genetics*, 176, 2529-2540.

Wright, F. A. Huang, H., Guan, X., Gamiel, K., Jeffries, C., Barry, W.T., Pardo- Manuel, F., Sullivan, P. F., Wilhelmsen, K. C. and **Zou, F.** (2007). Simulating association studies: a data-based resampling method for candidate regions or whole genome scans. *Bioinformatics*, 23(19):2581-2588.

Nadler, J., **Zou, F.**, Huang, H., Moy, S., Lauder, J., Crawley, J., Threadgill, D. W., Wright, F. A., and Magnuson T. (2006). Large scale gene expression differences among brain regions in ten inbred mouse strains and their correlation with behavioral phenotype. *Genetics*, 174, 1229-1236.

**Zou, F.**, Xu, Z. L. and Vision, T. J. (2006). Assessing the significance of quantitative trait loci in replicated mapping populations. *Genetics* **174**: 1063–1068.

Hu, J., Wright, F.A. and **Zou, F.** (2006). Information-enhanced SVD approaches to estimate expression indexes for oligonucleotide arrays. *JASA*, 101: 41-50.

**Zou, F.**, Gelfond, J., Airey, D., Lu, L., Manly, K., Williams, W. and Threadgill, D. (2005). Quantitative trait locus analysis using recombinant inbred intercrosses (RIX): theoretical and empirical considerations. *Genetics*, 170: 1299-1311.

Drumm, M.L., Konstan, M.W., Schluchter, M.D., Handler, A., Pace, R., **Zou, F.**, Zariwala, M., Fargo, D., Xu, A., Dunn, J.M., Darrah, R.J., Dorfman, R., Sandford, A.J., Corey, M., Zielenski, J., Durie, P., Goddard, K., Yankaskas, J.R., Wright, F.A., and Knowles, M.R. (2005). Gene Modifier Study Group. Genetic modifiers of lung disease in cystic fibrosis. *N Engl J Med*, 353:1443-1453.

Xu, Z. L., **Zou, F.**, and Vision, T. J. (2005). Improving QTL mapping resolution in experimental crosses by the use of genotypically selected samples. *Genetics*, 170: 401-408.

Hester, S. D., Barry, W. T., **Zou, F.**, and Wolf, D. C. (2005). Transcriptomic analysis of F344 rat nasal epithelium suggests that the lack of carcinogenic response to glutaraldehyde is due to its greater toxicity compared to formaldehyde. *Toxicologic Pathology*, **33**: 415-424.

Hu, J., **Zou, F.**, and Wright FA (2005). Practical FDR-based sample size calculations in microarray experiments. *Bioinformatics*, 21: 3264-3272.

**Zou, F.**, Fine, J. P., Hu, J. and Lin, D. Y. (2004). An efficient resampling method for assessing genome-wide statistical significance in mapping quantitative trait loci. *Genetics* 168: 2307-2316.

Fine, J. P., **Zou, F.**, and Yandell, B. S. (2004). Nonparametric estimation of mixture models, with application to quantitative trait loci. *Biostatistics*, 5: 501-513.

Lin, D., and **Zou, F.** (2004). Resampling approach to assessing genomewide statistical significance in linkage studies. *Genetic Epidemiology*, 27: 202-214.

Diao, G., Lin, D., and **Zou, F.** (2004). Mapping quantitative trait loci with censored observations. *Genetics*, 168: 1689-1698.

Churchill, G. A. *et al.* (2004). The Collaborative Cross, a community resource for the genetic analysis of complex traits. *Nature Genetics*, 36:1133-1137.

**Zou, F.**, Yandell, B.S., and Fine, J.P. (2003). Rank based statistical methodologies for QTL mapping. *Genetics*, 165: 1599-1605.

Flaherty, L. *et al.* (2003). The nature and identification of quantitative trait loci: a community's view. *Nature Genetics Review*, 4: 911-916.

Hester, S. D., Benavides, G. B., Yoon, L., Morgan, L. K., **Zou, F.**, Barry, W., and Wolf, D. C. (2003). Formaldehyde-induced gene expression in F344 rat nasal respiratory epithelium. *Toxicology*, 187:13-24

Lukens, L., **Zou, F.**, Lydiate, D., Parkin, I., and Osborn, T. (2003). Comparison of a *Brassica Oleracea* genetic map with genome of *Arabidopsis Thallana*. *Genetics*, 164: 359-372.

Lan, H., Rabaglia, M.E., Stoehr, J.P., Nadler, S.T., Schueler, K.L., **Zou, F.**, Yandell, B.S., and Attie, A.D. (2003). Gene expression profiles of nondiabetic and diabetic obese mice suggest a role of hepatic lipogenic capacity in diabetes susceptibility. *Diabetes*, 52: 688-700.

**Zou, F.**, and Fine, J.P. (2002). Note on a partial empirical likelihood. *Biometrika*, 89: 958-961.

**Zou, F.**, Fine, J.P., and Yandell, B.S. (2002). On empirical likelihood for a semiparametric mixture model. *Biometrika*, 89: 61-75.

Dwinell, K.L., Bass, P., **Zou, F.**, and Oaks, J.A. (2002). Small intestinal transactions decrease the occurrence of tapeworm-induced myoelectric patterns in the rat. *Journal of Neurogastroenterology and Motility*, 14: 349-356.

**Zou, F.**, Yandell, B.S., and Fine, J.P. (2001). Statistical issues in the analysis of quantitative traits in combined crosses. *Genetics*, 158: 1339-1346.

### **Book Chapters:**

**Zou, F.**, Yandell, B.S., Fine, J.P. (2007) Semiparametric and nonparametric gene mapping. In *Advances in Statistical Modeling and Inference: Essays in honor of Kjell A. Doksum*. Ed. by V Nair. World Scientific, pp. 387-404.

Threadgill, D. W., Hunter, K. W., **Zou, F.**, and Manly, K. F. (2003). Genetic modifiers in “*mouse models of cancer*” (Editor: Eric C. Holland). Wiley.