

BRIAN S. YANDELL

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PROFESSIONAL PREPARATION

California Institute of Technology	Mathematics	B.A. honors	1970-1974
University of California-Berkeley	Statistics	M.Sc.	1975-1978
University of California-Berkeley	Biostatistics	Ph.D.	1975-1981

APPOINTMENTS

2006-	Instructor, Summer Institute in Statistical Genetics, UW-Seattle
2006-	Affiliate Faculty, Department of Biostatistics & Medical Informatics, UW-Madison
2006-	Associate Faculty, Comprehensive Cancer Center, UW-Madison
2001-	Instructor, Mathematical Approaches to Complex Phenotypes, The Jackson Laboratory
1999-2005	Instructor, Summer Institute in Statistical Genetics, NCSU
1996-	Faculty, Program in Plant Breeding and Plant Genetics
1996-	Professor, Departments of Statistics and Horticulture, UW-Madison
1988-1996	Associate Professor, Departments of Statistics and Horticulture, UW-Madison
1984-	Affiliate Faculty, Institute of Environmental Studies, UW-Madison
1982-	Faculty, Program in Biometry, UW-Madison
1982-1988	Assistant Professor, Departments of Statistics and Horticulture, UW-Madison

SIGNIFICANT PUBLICATIONS

Yandell BS, Mehta T, Banerjee S, Shriner D, Venkataraman R, Moon JY, Neely WW, Wu H, von Smith R, Yi N (2007) R/qtlbim: QTL with Bayesian interval mapping in experimental crosses. *Bioinformatics* (in press).

Yandell BS, Bradbury P (2007) Computing strategies and software for gene mapping. Ch. 11, *Principles & Practices of Plant Molecular Mapping & Breeding*. Ed. by C Kole. Springer-Verlag (to appear).

Clee SM, Yandell BS, Schueler KM, Rabaglia ME, Richards OC, Raines SM, Kabara EA, Klass DM, Mui ETK, Stapleton DS, Gray-Keller MP, Young MB, Stoehr JP, Lan H, Boronenkov I, Raess PW, Flowers MT, Attie AD (2006) Positional cloning of Sorcs1, a type 2 diabetes quantitative trait locus. *Nat Genet* 38: 688-693.

Lan H, Chen M, Byers JE, Yandell BS, Stapleton DS, Mata CM, Mui ETK, Flowers MT, Schueler KL, Manly KF, Williams RW, Kendzierski C, Attie AD (2006) Combined expression trait correlations and expression quantitative trait locus mapping. *PLoS Genetics* 2: e6.

Yi N, Yandell BS, Churchill GA, Allison DB, Eisen EJ, Pomp D (2005) Bayesian model selection for genome-wide epistatic QTL analysis. *Genetics* 170: 1333-1344.

Jin C, Lan H, Attie AD, Bulutuglo D, Churchill GA, Yandell BS (2004) Selective phenotyping for increased efficiency in genetic mapping studies. *Genetics* 168: 2285-2293.

Stoehr JP, Byers JE, Clee SM, Lan H, Boronenkov I, Schueler KM, Yandell BS, Attie AD (2004) Identification of major quantitative trait loci controlling body weight variation in ob/ob mice. *Diabetes* 53: 245-249.

Lan H, Stoehr JP, Nadler ST, Schueler KL, Yandell BS, Attie AD (2003) Dimension reduction for mapping mRNA abundance as quantitative traits. *Genetics* 164: 16-7-1614.

- Lin Y, Nadler ST, Lan H, Attie AD, Yandell BS (2003) Adaptive gene picking with microarray data: detecting important low abundance signals. In *The Analysis of Gene Expression Data: Methods and Software*, ed by G Parmigiani, ES Garrett, RA Irizarry, SL Zeger. Springer-Verlag, ch. 13.
- Ntambi JM, Miyazaki M, Stoehr JP, Lan H, Kendzierski CM, Yandell BS, Song Y, Cohen P, Friedman JM, Attie AD (2002) Loss of stearoyl-CoA desaturase-1 function protects mice against adiposiy. *Proc. Nat. Acad. Sci.* 99: 11482-11486.
- Zou F, Fine JP, Yandell BS (2002) On the empirical likelihood for a semiparametric mixture model. *Biometrika* 89: 61-75.
- Nadler ST, Stoehr JP, Schueler KL, Tanimoto G, Yandell BS, Attie AD (2000) The expression of adipogenic Genes is decreased in obesity and Diabetes mellitus. *Proc. Nat. Acad. Sci. USA* 97: 11371-11376.

SYNERGISTIC ACTIVITIES: Collaborate widely with biologists and quantitative scientists on campus concerning gene mapping, microarray data analysis, and genetical genomics methodology. Senior manager on multi-site (U Alabama-Birmingham, UW-Madison, Jackson Lab) software development team for Bayesian gene mapping model selection project (NIH funded). Instructor in several internationally recognized workshops on gene mapping and genetical genomics. Assist in faculty/staff training workshops for diversity in hiring at UW-Madison jointly with WISELI.

Collaborators: D Allison, AD Attie, K Broman, GA Churchill, JEP Debaene, JP Fine, D Gianola, LM Hartweck, H Jacobs, C Kendzierski, KK Kidwell, C Kole, RF Luck, ST Nadler, MA Newton, TC Osborn, EE Schadt, JP Stoehr, S Tavoletti, CE Thorman, JP Palta, GJM Rosa, R von Smith, B Wier, N Yi, ZB Zeng.

Graduate Advisor: Kjell A. Doksum, UC-Berkeley (ret.) and UW-Madison.

Graduate Students: CF Jin (UW-Madison); Y Song (UW-Madison); PJ Gaffney (Progressive Insurance, Cleveland); F Zou (Asst Prof, Biostatistics, U NC, Chapel Hill); E Borghi (World Health Org, Geneva); HG Tao (GE Capital, CT); P Qiu (Assoc Prof, Statistics, U MN); JM Satagopan (Asst Prof, Epidemiology & Biostatistics, Sloan-Kettering Mem Inst, NY); C Feng (1st Omni Bank, DE); W Taam (Boeing, Seattle, WA). A Bersch (UW-Madison); T Tran (Professor and Chair, Dept of Botany, Nat U of Ho Chi Minh City, Vietnam, and Scientist, Intl Crane Found); G Sargeant (Statistician, Northern Prairie Science Center, ND); MB Miller (Asst Prof, U MN Psychology); O Vázquez Yáñez (Dairy Sci, Galicia); PS Reynolds (Asst Prof, U Richmond Biology); C Wang (Pfizer); A Najar (France). Total: 20

Postdoctoral Fellows: H Lan (UW-Madison Biochemistry); L Solberg (Med Col WI, with H Jacobs). Total: 2