

CURRICULUM VITAE

Chun Li

(Updated on November 11, 2009)

Contact Information

Business Address: Department of Biostatistics
Vanderbilt University School of Medicine
S-2323 Medical Center North
Nashville, Tennessee 37232-2158

or Center for Human Genetics Research
Vanderbilt University School of Medicine
519 Light Hall
Nashville, Tennessee 37232-0700

Contact information: chun.li@vanderbilt.edu
(615) 322-2884 (Phone)
(615) 322-6974 (Fax)
<http://biostat.mc.vanderbilt.edu/ChunLi>

Education

- 1992 B.A. in Mathematical Statistics, Nankai University, Tianjin, China
- 1998 M.S. in Statistics, Ohio State University, Columbus, Ohio
- 2002 Ph.D. in Biostatistics, University of Michigan, Ann Arbor, Michigan
Dissertation: "Association Methods for Mapping Genes for Complex Diseases"
Advisor: Michael Boehnke, Ph.D.

Award

- 2005-2006 Oswald T. Avery Teacher of the Year
From Vanderbilt University Ph.D. Program in Human Genetics

Professional Experience

- 1996-1998 Teaching Assistant, Department of Statistics, Ohio State University
- 1998-2002 Research Assistant, Department of Biostatistics, University of Michigan
- 2002-2004 Assistant Professor, Department of Molecular Physiology and Biophysics, Vanderbilt University
- 2003-2005 Director, Genetic Data Analysis Core, Center for Human Genetics Research, Vanderbilt University
- 2002-Present Investigator, Center for Human Genetics Research, Vanderbilt University
- 2004-Present Assistant Professor, Department of Biostatistics, Vanderbilt University

Software

GWAsimulator: A C++ program for simulating genotype data from SNP chips. It implements a rapid moving-window algorithm to simulate whole genome case-control or population samples. <http://biostat.mc.vanderbilt.edu/GWAsimulator>

GIST (Genotype-IBD Sharing Test): A C program for testing if marker genotype can account in part for the evidence of linkage in the marker region. <http://biostat.mc.vanderbilt.edu/GIST>

ATOM (Association Test via Optimally weighted Markers): An R program for a gene-based association test for case-control data. <http://biostat.mc.vanderbilt.edu/ATOM>

HWECC /HWETRIO: R programs for Hardy-Weinberg equilibrium tests using case-control or trio data. <http://biostat.mc.vanderbilt.edu/HWECC> and <http://biostat.mc.vanderbilt.edu/HWETRIO>

Academic Activities

- 2003-2005 Member, Core Advisory Board, Center for Human Genetics Research, Vanderbilt University
- 2003-2008 Organizer, Statistical and Computational Genetics Journal Club
- 2004-2005 Secretary, Middle Tennessee Chapter, American Statistical Association
- 2005-2006 President, Middle Tennessee Chapter, American Statistical Association
- June 13, 2004 Organizer, Mini-Symposium on Statistical Genetics, SIAM Conference on Discrete Mathematics, Nashville, Tennessee (<http://www.siam.org/meetings/DM04/index.htm>)
- March 22, 2005 Chair, Session on Imaging of Brain Activity, IBS/ENAR meeting, Austin, Texas
- 2004-Present Member, Ph.D. Search Committee, Department of Biostatistics, Vanderbilt University
- 2008-Present Member, Statistical Genetics Faculty Search Committee, Center for Human Genetics Research, Vanderbilt University

Manuscript review for

- American Journal of Epidemiology* (2007)
- American Journal of Human Genetics* (2002-2004)
- American Journal of Respiratory and Critical Care Medicine* (2004)
- Annals of Human Genetics* (2003-2005, 2007)
- Annals of Neurology* (2007)
- BMC Bioinformatics* (2009)
- Cancer Informatics* (2006)
- Circulation* (2005, 2009)
- Diabetes* (2006-2007)
- European Journal of Human Genetics* (2008)
- Genetic Analysis Workshop* 14 (2005), 15 (2007)
- Genetic Epidemiology* (2003, 2006, 2008, 2009)
- Genetics* (2004)
- Genome Research* (2005)
- Genomics* (2003)
- Human Heredity* (2001-2005, 2007, 2009)

Investigative Ophthalmology & Visual Science (2008)
Molecular Diagnosis & Therapy (2008)
Neuropsychiatric Genetics (2003)
Obesity (2007)
Pacific Symposium on Biocomputing (2004)
Science (2001)

Grant review for

National Institute of Child Health and Human Development (NICHD, 10/17/2003)
American Diabetes Association (ADA, 2004)
National Heart, Lung, and Blood Institute (NHLBI, 10/20/2005)
Vanderbilt Kennedy Center for Research on Human Development (VKC, 2006)
National Heart, Lung, and Blood Institute (NHLBI, HLBP study section, 04/16/2007)
Challenge grants (GCAT study section, 2009)

Book proposal review for

Oxford University Press (2008)

Teaching Experience

Course Instructors:

Tutorials in Human Genetics

(co-instructor: Marylyn Ritchie) Spring, 2005

(co-instructors: Marylyn Ritchie and Dana Crawford) Spring, 2007

Organize student presentation on key methodology papers in statistical genetics, and provide comments and feedback to students.

Tutorials in Statistical and Population Genetics (HGEN 371)

(co-instructor: Dana Crawford) Spring, 2008-2009

Organize student presentation on review papers in statistical and population genetics, and provide comments and feedback to students.

Statistics for Biomedical Research (IGP 304)

Spring, 2006

<http://biostat.mc.vanderbilt.edu/IntroBiostatCourse2006>

A course on introductory biostatistics for Ph.D. students in the School of Medicine. (I was awarded Teacher of the Year by the Ph.D. Program in Human Genetics for this course.)

Statistics for Biomedical Research (IGP 304)

(co-instructor: Leena Choi) Spring, 2007

<http://biostat.mc.vanderbilt.edu/IntroBiostatCourse2007>

A course on introductory biostatistics for Ph.D. students in the School of Medicine.

Lectures:

Human Genetics (MPB 340)

Spring, 2004

Lectures on population genetics and linkage analysis

Statistical Thinking in Biomedical Research (short course series)

October 28, 2004

One lecture on experimental design and analyzing serial measurements

Bioregulation (IGP 300)

Fall, 2005-2006

One lecture each year on “Experimental Design and Analyzing Serial Measurements”

Human Genetics (HGEN 341)

Spring, 2005-2009

Five lectures each year on population genetics and quantitative trait locus analysis

Students

- 2004-2005 Advisor of Ms. Mame Diop in the Initiative for Minority Student Development (IMSD) program. (After finishing, she enrolled in the master's program in the Department of Epidemiology, University of Washington.)
- 2007 Chair, Ph.D. Candidacy Committee for Ms. Rebecca Lynn Zuvich (advisor Haines)
- 2007-2008 Member, Ph.D. Dissertation Committee for Mr. Ryan Delahanty (advisor Sutcliffe)

GrantsCurrent grant:

R01HG004517 (PIs Chun Li, Mingyao Li) 09/19/2008-07/31/2013 \$1,250,000 direct
NIH/NHGRI

Developing Statistical Methods for Disease Gene Discovery

We propose to develop new statistical methods for copy number variation detection, multi-marker association, fine mapping using admixed populations, multiple comparison threshold determination, and other problems as the field of human genetics moves.

Pending grant:

1R21EY018924-01A1 (PI Chun Li) 11/01/2008-10/31/2010 \$275,000 direct
NIH/NEI

*Genetics of Diabetic Retinopathy*Past grants:

Vanderbilt Diabetes Center 04/01/2003-03/31/2005 \$80,000 direct
New Statistical Methods for Diabetes Genetics Studies (PI Chun Li)

Professional Memberships

American Society of Human Genetics
American Statistical Association
Institute of Mathematical Statistics
International Biometric Society
International Genetic Epidemiology Society

Major Fields of Academic Interest

Human genetics: Genetic and physical mapping of genes for complex diseases

Genetics of diabetes: Underlying genetic mechanism of various forms of diabetes and its complications, especially diabetic retinopathy

Statistics / biostatistics: Statistical genetics, statistical computing, statistical theory and its applications, statistics education

Publications**Peer Reviewed**

1. Ghosh S, Watanabe RM, Valle TT, Hauser ER, Magnuson VL, Langefeld CD, Ally DS, Mohlke KL, Silander K, Kohtamäki K, Chines P, Balow J, Birznieks G, Chang J, Eldridge W, Erdos MR, Karanjawala ZE, Knapp JI, Kudelko K, Martin C, Morales-Mena A, Musick A, Musick T, Pfahl C, Porter R, Rayman JB, Rha D, Segal L, Shapiro S, Sharaf R, Shurtleff B, So A, Tannenbaum J, Te C, Tovar J, Unni A, Welch C, Whiten R, Witt A, Blaschak-Harvan J, Douglas JA, Duren WL, Epstein MP, Fingerlin TE, Kaleta HS, Lange EM, **Li C**, McEachin RC, Stringham HM, Trager E, White PP, Eriksson J, Toivanen L, Vidgren G, Nylund SJ, Tuomilehto-Wolf E, Ross EH, Demirchyan E, Hagopian WA, Buchanan TA, Tuomilehto J, Bergman RN, Collins FS, Boehnke M (2000) The Finland-United States investigation of non-insulin-dependent diabetes mellitus genetics (FUSION) study. I. An autosomal genome scan for genes that predispose to type 2 diabetes. *American Journal of Human Genetics* 67:1174-1185 (PMID 11032783; PMC1288560)
2. Watanabe RM, Ghosh S, Langefeld CD, Valle TT, Hauser ER, Magnuson VL, Mohlke KL, Silander K, Ally DS, Chines P, Blaschak-Harvan J, Douglas JA, Duren WL, Epstein MP, Fingerlin TE, Kaleta HS, Lange EM, **Li C**, McEachin RC, Stringham HM, Trager E, White PP, Balow J, Birznieks G, Chang J, Eldridge W, Erdos MR, Karanjawala ZE, Knapp JI, Kudelko K, Martin C, Morales-Mena A, Musick A, Musick T, Pfahl C, Porter R, Rayman JB, Rha D, Segal L, Shapiro S, Sharaf R, Shurtleff B, So A, Tannenbaum J, Te C, Tovar J, Unni A, Welch C, Whiten R, Witt A, Kohtamäki K, Ehnholm C, Eriksson J, Toivanen L, Vidgren G, Nylund SJ, Tuomilehto-Wolf E, Ross EH, Demirchyan E, Hagopian WA, Buchanan TA, Tuomilehto J, Bergman RN, Collins FS, Boehnke M (2000) The Finland-United States investigation of non-insulin-dependent diabetes mellitus genetics (FUSION) study. II. An autosomal genome scan for diabetes-related quantitative-trait loci. *American Journal of Human Genetics* 67:1186-1200 (PMID 11032784; PMC1288561)
3. **Li C**, Scott LJ, Boehnke M (2004) Assessing whether an allele can account in part for a linkage signal: The Genotype-IBD Sharing Test (GIST). *American Journal of Human Genetics* 74:418-431 (PMID 14872409; PMC1182256) (Software at <http://biostat.mc.vanderbilt.edu/GIST>)
4. Silander K, Scott LJ, Valle TT, Mohlke KL, Stringham HM, Wiles KR, Duren WL, Doheny KF, Pugh EW, Chines P, Narisu N, White PP, Fingerlin TE, Jackson AU, **Li C**, Ghosh S, Magnuson VL, Colby K, Erdos MR, Hill JE, Hollstein P, Humphreys KM, Kasad RA, Lambert J, Lazaridis KN, Lin G, Morales-Mena A, Patzkowski K, Pfahl C, Porter R, Rha D, Segal L, Suh YD, Tovar J, Unni A, Welch C, Douglas JA, Epstein MP, Hauser ER, Hagopian W, Buchanan TA, Watanabe RM, Bergman RN, Tuomilehto J, Collins FS, Boehnke M; Finland-United States Investigation of NIDDM Genetics (FUSION) (2004) A large set of Finnish affected sibling pair families with type 2 diabetes suggests susceptibility loci on chromosomes 6, 11, and 14. *Diabetes* 53:821-829 (PMID 14988269)
5. Silander K, Mohlke KL, Scott LJ, Peck EC, Hollstein P, Skol AD, Jackson AU, Deloukas P, Hunt S, Stavrides G, Chines PS, Erdos MR, Narisu N, Conneely KN, **Li C**, Fingerlin TE, Dhanjal SK, Valle TT, Bergman RN, Tuomilehto J, Watanabe RM, Boehnke M, Collins FS (2004) Genetic variation near the hepatocyte nuclear factor-4 alpha gene predicts susceptibility to type 2 diabetes. *Diabetes* 53:1141-1149 (PMID 15047633)
6. Ren Z, Cai Q, Shu XO, Cai H, **Li C**, Yu H, Gao YT, Zheng W (2004) Genetic polymorphisms in the IGFBP3 gene: Association with breast cancer risk and blood IGFBP-3 protein levels among Chinese women. *Cancer Epidemiology, Biomarkers & Prevention* 13:1290-1295 (PMID

15298948)

7. McCauley JL, **Li C**, Jiang L, Olson LM, Crockett G, Gainer K, Folstein SE, Haines JL, Sutcliffe JS (2005) Genome-wide and ordered-subset linkage analyses provide support for autism loci on 17q and 19p with evidence of phenotypic and interlocus genetic correlates. *BMC Medical Genetics* 6:1 (PMID 15647115; PMC546213)
8. Epstein MP, Veal CD, Trembath RC, Barker JN, **Li C**, Satten GA (2005) Genetic association analysis using data from triads and unrelated subjects. *American Journal of Human Genetics* 76:592-608 (PMID 15712104; PMC1199297)
9. Sutcliffe JS, Delahanty RJ, Prasad HC, McCauley JL, Han Q, Jiang L, **Li C**, Folstein SE, Blakely RD (2005) Allelic heterogeneity at the serotonin transporter locus (*SLC6A4*) confers susceptibility to autism and rigid-compulsive behaviors. *American Journal of Human Genetics* 77:265-279 (PMID 15995945; PMC1224529)
10. **Li C**, Boehnke M (2006) Haplotype association analysis for late onset diseases using nuclear family data. *Genetic Epidemiology* 30:220-230 (PMID 16470533)
11. Kurnik D, Muszkat M, **Li C**, Sofowora GG, Solus J, Xie HG, Harris PA, Jiang L, McMunn C, Ihrie P, Dawson EP, Williams SM, Wood AJJ, Stein CM (2006) Variations in the α_{2A} -adrenergic receptor gene and their functional effects. *Clinical Pharmacology & Therapeutics* 79:173-185 (PMID 16513442)
12. O'Day DM, **Li C** (2006) The failure rate of candidates for board certification: An educational outcome measure. *Transactions of the American Ophthalmological Society* 104:129-142 (PMID 17471333; PMC1809893)
13. Yi Y, **Li C**, Miller C, George AL (2007) Strategy for encoding and comparison of gene expression signatures. *Genome Biology* 8:R133 (PMID 17612401; PMC2323223)
14. Statnikov A, **Li C**, Aliferis CF (2007) Effects of environment, genetics and data analysis pitfalls in an esophageal cancer genome-wide association study. *PLoS ONE* 2(9):e958 (PMID 17895998; PMC1978529)
15. **Li C**, Li M, Lange EM, Watanabe RM (2008) Prioritized subset analysis: Improving power in genome-wide association studies. *Human Heredity* 65:129-141 (PMID 17934316)
16. **Li C**, Li M (2008) GWAsimulator: A rapid whole genome simulation program. *Bioinformatics* 24:140-142 (PMID 18006546) (Software at <http://biostat.mc.vanderbilt.edu/GWAsimulator>)
17. Leon A, Donahue SP, Morrison DG, Estes RL, **Li C** (2008) The age-dependent effect of anisometropia magnitude on anisometric amblyopia severity. *Journal of AAPOS* 12:150-156 (PMID 18155938)
18. Recchia FM, Chen E, **Li C**, Maguluri S (2008) Use of COX-2 inhibitors in patients with retinal venous occlusive disease. *Retina* 28:134-137 (PMID 18185149)
19. Cai Q, Kataoka N, **Li C**, Wen W, Smith JR, Gao YT, Shu XO, Zheng W (2008) Haplotype analyses of *CYP19A1* gene variants and breast cancer risk: Results from the Shanghai Breast Cancer Study. *Cancer Epidemiology, Biomarkers & Prevention* 17:27-32 (PMID 18199708; PMC2633134)
20. Li M*, **Li C***, Guan W (2008) Evaluation of coverage variation of SNP chips for genome-wide association studies. *European Journal of Human Genetics* 16:635-643 (PMID 18253166) (Detailed results at <http://biostat.mc.vanderbilt.edu/SNPChipCoverage>) (* **co-first author**)

21. **Li C**, Li M, Long JR, Cai Q, Zheng W (2008) Evaluating cost efficiency of SNP chips in genome-wide association studies. *Genetic Epidemiology* 32:387-395 (PMID 18271056; PMC2650398) (Detailed results at <http://biostat.mc.vanderbilt.edu/SNPChipCostEfficiency>)
22. Menon R, Thorsen P, Vogel I, Jacobsson B, Morgan N, Jiang L, **Li C**, Williams SM, Fortunato SJ (2008) Racial disparity in amniotic fluid concentrations of tumor necrosis factor (TNF)-alpha and soluble TNF receptors in spontaneous preterm birth. *American Journal of Obstetrics and Gynecology* 198:533.e1-533.e10 (PMID 18279834)
23. Schwarz UI, Ritchie MD, Bradford Y, **Li C**, Dudek SM, Frye-Anderson A, Kim RB, Roden DM, Stein CM (2008) Genetic determinants of response to warfarin during initiation of anticoagulation. *New England Journal of Medicine* 358:999-1008 (PMID 18322281)
24. Jiang S, Moriarty-Craige SE, **Li C**, Lynn MJ, Cai J, Jones DP, Sternberg P (2008) Associations of plasma-soluble Fas ligand with aging and age-related macular degeneration. *Investigative Ophthalmology & Visual Science* 49:1345-1349 (PMID 18385048)
25. O'Day DM, **Li C** (2008) First-time failure rates of candidates for board certification: An educational outcome measure. *Archives of Ophthalmology* 126:548-553 (PMID 18413528) (**Associated Editorial** by John G. Clarkson, *Arch Ophthalmol.* 2008, 126:562-563)
26. Parbhu KC, Galler KE, **Li C**, Mawn LA (2008) Underestimation of soft tissue entrapment by computed tomography in orbital floor fractures in the pediatric population. *Ophthalmology* 115:1620-1625 (PMID 18440640)
27. Li M, **Li C** (2008) Assessing departure from Hardy-Weinberg equilibrium in the presence of disease association. *Genetic Epidemiology* 32:589-599 (PMID 18449919) (Software at <http://biostat.mc.vanderbilt.edu/HWECC> and <http://biostat.mc.vanderbilt.edu/HWETRIO>)
28. Ryckman KK, Jiang L, **Li C**, Bartlett J, Haines JL, Williams SM (2008) A prevalence based association test for case-control studies. *Genetic Epidemiology* 32:600-605 (PMID 18473366)
29. Beeghly-Fadiel A, Long JR, Gao YT, **Li C**, Qu S, Cai Q, Zheng Y, Ruan ZX, Levy SE, Deming SL, Snoddy JR, Shu XO, Lu W, Zheng W (2008) Common MMP-7 polymorphisms and breast cancer susceptibility: A multistage study of association and functionality. *Cancer Research* 68:6453-6459 (PMID 18648013; PMC2718434)
30. Campbell DB, **Li C**, Sutcliffe JS, Persico AM, Levitt P (2008) Genetic evidence implicating multiple genes in the MET receptor tyrosine kinase pathway in autism spectrum disorder. *Autism Research* 1:159-168 (PMID 19360663; PMC2678909)
31. Kurnik D, **Li C**, Sofowora GG, Friedman EA, Muszkat M, Xie HG, Harris PA, Williams SM, Nair UB, Wood AJ, Stein CM (2008) β_1 -adrenoceptor genetic variants and ethnicity independently affect response to β -blockade. *Pharmacogenetics and Genomics* 18:895-902 (PMID 18794726; PMC2757009)
32. Beeghly-Fadiel A, Shu XO, Long J, **Li C**, Cai Q, Cai H, Gao YT, Zheng W (2009) Genetic polymorphisms in the MMP-7 gene and breast cancer survival. *International Journal of Cancer* 124:208-214 (PMID 18798254; PMC2597698)
33. **Li C**, Schwarz UI, Ritchie MD, Roden DM, Stein CM, Kurnik D (2009) Relative contribution of *CYP2C9* and *VKORC1* genotypes and early INR response to the prediction of warfarin sensitivity during initiation of therapy. *Blood* 113:3925-3930 (PMID 19074728; PMC2673121)
34. Li M, Wang K, Grant SF, Hakonarson H, **Li C** (2009) ATOM: A powerful gene-based

association test by combining optimally weighted markers. *Bioinformatics* 25:497-503 (PMID 19074959; PMC2642636) (Software at <http://biostat.mc.vanderbilt.edu/ATOM>)

35. Zheng W, Long J, Gao YT, **Li C**, Zheng Y, Xiang YB, Wen W, Levy S, Deming SL, Haines JL, Gu K, Fair AM, Cai Q, Lu W, Shu XO (2009) Genome-wide association study identifies a new breast cancer susceptibility locus at 6q25.1. *Nature Genetics* 41:324-328 (PMID 19219042; PMC2754845)
36. Parl FF, Egan KM, **Li C**, Crooke PS (2009) Estrogen exposure, metabolism, and enzyme variants in a model for breast cancer risk prediction. *Cancer Informatics* 7:109-121 (PMID 19718449; PMC2730178)

In Press

37. **Li C**, Shepherd BE (2009) Test of association between two ordinal variables while adjusting for covariates. *Journal of the American Statistical Association* (in press)

Submitted

38. **Li C**, Li M (2009) Case-only analysis of gene-gene interactions when control genotypes are available. To *Annals of Human Genetics*
39. Kurnik D, Cunningham AJ, Sofowora GG, Kohli U, **Li C**, Friedman EA, Muszkat M, Wood AJ, Stein CM (2009) GRK5 Gln41Leu polymorphism is not associated with sensitivity to β_1 -adrenergic blockade in humans. To *Pharmacogenomics*
40. Zheng W, Wen W, Gao YT, Zheng Y, Long J, Li G, **Li C**, Gu K, Shyr Y, Cai Q, Shu XO, Lu W (2009) Genetic and clinical predictors, risk stratification, and targeted prevention of breast cancer. To *Journal of the National Cancer Institute* (revision to be submitted)
41. Zheng W, Cai Q, Signorello LB, Long J, Hargreaves MK, Deming SL, Li G, **Li C**, Cui Y, Blot WJ (2009) Evaluation and fine-mapping of 11 breast cancer susceptibility loci in African American women. To *Journal of the National Cancer Institute*
42. Cai Q, Wen W, Li G, Chen K, Zhang L, Zheng H, Shen H, Hu Z, Wang F, Shen CY, Wu PE, Shieh YL, Gammon MD, Santella RM, Blot WJ, Signorello LB, Egan KM, Titus-Ernstoff L, Newcomb PA, Trentham-Dietz A, Garcia-Closas M, Haiman CA, Henderson BE, Le Marchand L, Khoo US, Chan KYK, Chan SY, Iwasaki M, Kasuga Y, Tsugane S, Long L, **Li C**, Shi J, Deming SL, Xiang YB, Gao YT, Lu W, Shu XO, Zheng W (2009) Consortium study of breast cancer susceptibility locus at 6q25.1 among over 30,000 women. To *Journal of the National Cancer Institute*
43. Long J, Cai Q, Shu XO, **Li C**, Zheng Y, Gu K, Wang W, Xiang YB, Cheng J, Chen K, Zhang L, Zheng H, Shen CY, Huang CS, Hou MF, Shen H, Hu Z, Wang F, Khoo US, Chan KYK, Chan SY, Haiman CA, Henderson BE, Le Marchand L, Iwasaki M, Kasuga Y, Tsugane S, Matsuo K, Tajima K, Iwata H, Li G, Wen W, Gao YT, Lu W, Zheng W (2009) Genome-wide association study identifies a new breast cancer susceptibility locus at 16q12.1 in Asian women. To *Nature Genetics*

Letter to the Editor

44. Statnikov A, **Li C**, Aliferis CF (2008) A statistical reappraisal of the findings of an esophageal cancer genome-wide association study. (Letter to the Editor) *Cancer Research* 68:3074-3075 (PMID 18413779)

Book Chapter

45. **Li C** (2005) Detecting gene-gene interaction in linkage analysis. In *Current Protocols in Human Genetics*, edited by Dracopoli NC, Haines JL, Korf BR, Morton CC, Seidman CE, Seidman JG, Smith DR. Chapter 1, Unit 1.15. John Wiley & Sons (PMID 18428369)

Invited Talks/Lectures at Conferences/Workshops/Courses

- April 6, 2004 *Genetic Analysis of Quantitative Traits*
Genetic Analysis of Complex Human Diseases (April 4-7, 2004), Durham, North Carolina
- June 13, 2004 *Connecting Linkage and Association Results: An Integration*
SIAM Conference on Discrete Mathematics (June 13-16, 2004), Nashville, Tennessee
- May 17, 2005 *Genetic Analysis of Quantitative Traits*
Genetic Analysis of Complex Human Diseases (May 15-18, 2005), Durham, North Carolina
- June 14, 2006 *Genetic Analysis of Quantitative Traits*
Genetic Analysis of Complex Human Diseases (June 12-15, 2006), Durham, North Carolina
- August 21, 2006 *Genome-Wide Association Studies: Issues and Approaches*
Conference on Analysis of Complex Data Sets, Nashville, Tennessee
- May 5, 2008 *Genetic Linkage Analysis*
May 6, 2008 *Genetic Analysis of Quantitative Traits*
Genetic Analysis of Complex Human Diseases (May 5-8, 2008), Coconut Grove, Florida
- October 4, 2008 *Coverage Variation and Cost Efficiency in Genome-wide Association Studies*
Biostatistics and Bioinformatics Workshop for High-Dimensional Data Analysis (October 3-5, 2008), Tamkang University, Tamsui, Taiwan
- April 21, 2009 *Genetic Analysis of Quantitative Traits*
Genetic Analysis of Complex Human Diseases (April 20-23, 2009), Miami Beach, Florida

Seminars

- February 5, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Department of Statistics, University of California, Berkeley, California
- February 14, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Program in Human Genetics, Department of Molecular Physiology and
Biophysics, Vanderbilt University, Nashville, Tennessee
- February 18, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Division of Statistical Genetics, Department of Biostatistics, University of Iowa,
Iowa City, Iowa
- February 21, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Division of Biostatistics, Washington University, St. Louis, Missouri
- February 25, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Department of Biostatistics, University of North Carolina, Chapel Hill, North
Carolina
- March 4, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Department of Human Genetics, Emory University, Atlanta, Georgia
- March 27, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Division of Biostatistics, Department of Preventive Medicine, University of
Southern California, Los Angeles, California
- April 18, 2002 *Association Analysis for Mapping Genes Using Affected Sibships*
Department of Human Genetics, Genome Therapeutics Corporation, Waltham,
Massachusetts
- January 30, 2003 *Design and Data Analysis for Genetic Studies for Complex Diseases*
Program in Human Genetics, Vanderbilt University, Nashville, Tennessee
- April 17, 2003 *Allele-Sharing Linkage Analysis on Subsets of Families Stratified Based on an
Associated Allele*
Division of Biostatistics, Vanderbilt-Ingram Cancer Center, Nashville,
Tennessee
- October 5, 2004 *Connecting Linkage and Association Results: The Genotype-IBD Sharing Test
(GIST)*
Section on Biostatistics, Department of Public Health Sciences, Wake Forest
University, Winston-Salem, North Carolina
- May 25, 2005 *Evaluation of Ophthalmology Residency Training Programs in the U.S.: Rank
them or not?*
Department of Biostatistics, Vanderbilt University, Nashville, Tennessee

- June 15, 2005 *A Discussion of Bayesian and Frequentist Statistics*
Department of Biostatistics, Vanderbilt University, Nashville, Tennessee (Co-Presenter: Dr. Sebastien Haneuse)
- July 26, 2006 *Association Analysis in Human Genetics Studies*
Kennedy Center for Research on Human Development, Vanderbilt University, Nashville, Tennessee
- October 24, 2006 *Issues in Genome-Wide Association Studies*
Center for Health Services Research, Vanderbilt University, Nashville, Tennessee
- May 23, 2007 *What is Interaction? & A New Approach to Detecting Gene-Gene Interactions in Case-Control Studies*
Department of Biostatistics, Vanderbilt University, Nashville, Tennessee
- September 19, 2007 *What is Interaction for A Binary Outcome?*
Kennedy Center for Research on Human Development, Vanderbilt University, Nashville, Tennessee
- February 12, 2008 *Issues in Genome-wide Association Studies: Coverage, Efficiency, and Prioritized Subset Analysis*
Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, Pennsylvania
- April 1, 2008 *Coverage Variation and Cost Efficiency in Genome-wide Association Studies*
Vanderbilt Epidemiology Center, Institute for Medicine and Public Health, Vanderbilt University, Nashville, Tennessee
- April 14, 2008 *Genome-wide Association Studies: Coverage, Efficiency, and Prioritized Subset Analysis*
Shanghai Cancer Institute, Shanghai, China
- April 16, 2008 *Coverage Variation and Cost Efficiency in Genome-wide Association Studies*
Department of Bioinformatics and Biostatistics, Shanghai Jiao Tong University, Shanghai, China
- April 17, 2008 *Empirical Bayes in Action: Evaluation of Ophthalmology Residency Training Programs in the U.S.*
Department of Statistics, Nankai University, Tianjin, China
- August 15, 2008 *Genome-wide Association Approach for the Shanghai Breast Cancer Study*
Cancer Biostatistics Workshop, Vanderbilt University, Nashville, Tennessee
- April 8, 2009 *Test of Association between Two Ordinal Variables while Adjusting for Covariates*
Department of Biostatistics, Vanderbilt University, Nashville, Tennessee

- May 6, 2009 *Powerful Association Tests for Genome-Wide Association Studies Using Admixed Populations*
Biostatistics Center, China Medical University, Taichung, Taiwan
- May 7, 2009 *Powerful Association Tests for Genome-Wide Association Studies Using Admixed Populations*
Department of Statistics, National Chengkung University, Tainan, Taiwan
- May 13, 2009 *Association Test for Two Ordinal Variables with Covariate Adjustment*
Biostatistics Center, China Medical University, Taichung, Taiwan

Presentations at Meetings

- August 6, 2003 *Allele-Sharing Linkage Analysis on Subsets of Families Stratified Based on an Associated Allele*
Joint Statistical Meetings, San Francisco, California
- November 4, 2003 *Haplotype Association Analysis for Late Onset Diseases Using Nuclear Family Data*
International Genetic Epidemiology Society, Redondo Beach, California
- March 31, 2004 *A Uniform Measure of Linkage Disequilibrium for Markers with Two or More Alleles*
International Biometric Society (ENAR), Pittsburgh, Pennsylvania
- March 21, 2005 *Combining Evidence from Linkage and Association Studies Using Dempster-Shafer Theory*
International Biometric Society (ENAR), Austin, Texas
- March 29, 2006 *ArrayBLAST: Data Mining Tool for Gene Expression Signatures*
International Biometric Society (ENAR), Tampa, Florida
- October 12, 2006 *Prioritized Subset Analysis in Genome-wide Association Studies*
American Society of Human Genetics, New Orleans, Louisiana

Other Talks

- December 17, 2004 *Genetic Data Analysis and the Genetic Data Analysis Core*
GCRC Research Skills Workshop Series, Vanderbilt University
- November 16, 2006 *Association Analysis in Human Genetics Studies*
MS Statisticians meeting, Department of Biostatistics, Vanderbilt University
- May 17, 2007 *Haplotype Analysis*
MS Statisticians meeting, Department of Biostatistics, Vanderbilt University