CURRICULUM VITAE

KUI ZHANG

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Contact Information

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Education

10/1990-07/1994	B.Sc. in Probability and Statistics, Beijing University, Beijing, China
08/1994-07/1999	PhD in Probability and Statistics, Beijing University, Beijing, China **Advisor:** Professor Minping Qian **Dissertation:** Phase Transition of the SAT problem

Professional Appointments

Aug 1999 – Jan 2001	Postdoctoral Research Associate Division of Biostatistics, Department of Epidemiology and Public Health, Yale University School of Medicine, New Haven, CT
Feb 2001 – Jul 2003	Postdoctoral Research Associate Program of Molecular and Computational Biology, Department of Biological Sciences, University of Southern California, Los Angeles, CA
Aug 2003 – Jan 2008	Research Assistant Professor Section of Statistical Genetics, Department of Biostatistics, University of Alabama at Birmingham School of Public Health, Birmingham, AL
Feb 2008 – Sep 2009	Associate Professor

	Section of Statistical Genetics, Department of Biostatistics, University of Alabama at Birmingham School of Public Health, Birmingham, AL
Oct 2009 – Aug 2015	Associate Professor with Tenure Section of Statistical Genetics, Department of Biostatistics, University of Alabama at Birmingham School of Public Health, Birmingham, AL
Aug 2015 – Present	Professor with Tenure Department of Mathematical Sciences, Michigan Technological University, Houghton, MI
Oct 2015 – Present	Dave House Endowed Professorship in Statistics, Data Mining, and Data Analytics Department of Mathematical Sciences, Michigan Technological University, Houghton, MI

Professional Memberships

2000 - Present	Member, American Society of Human Genetics
2004 - Present	Member, Chinese Statistical Association
2004 - Present	Member, American Statistical Association

Awards and Honors

- The 1st class Guang Hua Scholarship, Beijing University, 1991-1993.
- Dong Shi Dong Fang Scholarship, Beijing University, 1995.
- Jiu Zhang Suan Shu Scholarship, Beijing University, 1997.
- Science Unbound Foundation Best Paper Award in Statistical Genetics Research, 2008
- Science Unbound Foundation Best Paper Award in Statistical Genetics Research, 2014

Research Interests

My methodological research interests focus on the development of novel statistical methods and efficient bioinformatical tools to address scientific problems in biomedical research fields, especially in the field of statistical genetics and genomics. These include developing new methods and designing novel algorithms for mapping complex disease genes and analyzing next generation sequencing data. My collaborative research interests are to apply powerful and innovative statistical and computational methods to address problems from genetic studies and other types of studies from biomedical research fields.

Active Grants

N/A

Pending Grants

N/A

Completed Grants as Principle Investigator

Kui Zhang (Principal Investigator), Fuli Yu (Principal Investigator), Degui Zhi (Principal Investigator). Next-Generation Bioinformatics for Next-Generation Sequencing. NIH/NHGRI-1R01-HG008115-01. Period: 09/10/2014-06/30/2017. Total cost: $852,650.

Kui Zhang (Principal Investigator). Haplotype Analysis in Linkage Disequilibrium Mapping. To develop association methods based on haplotypes for mapping genes that are responsible for complex human diseases. NIH/NIGMS-R01-GM-74913. Period: 07/01/2006-06/30/2012. Total cost: $1,063,815.

Kui Zhang (Principal Investigator). Haplotype Analysis of Population and Pedigree Data in Association Studies. To organize a two day meeting on haplotype analysis in association studies. NIH/NHGRI-R13-HG-004593. Period: 10/01/2007-09/30/2008. Total cost: $15,000.

Completed Grants as Co-Investigator (Selected)

Michael Lefevre, …, **Kui Zhang (Co-Investigator)**. Diet, Genetics, and CVD Risk factor response in Blacks. To study the genetic factors that influence response of CVD risk factors to dietary interventions. NIH/NHLBI-U01-HL-072510. Period: 08/01/2003-12/31/2005.

Christopher Amos, ..., **Kui Zhang (Co-Investigator)**. Positional Gene Identification of Complex Traits. To develop linkage/linkage disequilibrium methods for testing the effects of quantitative trait loci on complex quantitative traits. NIH/NIEHS-R01-ES-09912. Period: 08/01/2003-06/30/2006.

Stephen Barnes, ..., **Kui Zhang (Co-Investigators)**. Center for Gene-Nutrient Interaction (CNGI). This Center will focus on the identification of genetic pathways that may distinguish cancer cells from normal cells, and the extent to which dietary polyphenols with documented chemopreventive activity modulate these pathways. NIH/NIC- U54-CA-100949**.** Period: 09/01/2003-06/30/2006.

David Allison, …, **Kui Zhang (Co-Investigator)**. Linkage & Linkage Disequilibrium Data Analysis Clearinghouse. To develop a facility for efficient collaborative applied analysis of linkage and linkage disequilibrium. Period: 03/01/2004-02/28/2006.

Suzanne Oparil, …, **Kui Zhang (Co-Investigator)**. Estrogen Modulates Injury-Induced Vascular Inflammation. To elucidate the fundamental cellular/molecular mechanisms by which ovarian hormones, particularly estrogen (E2), modulate the inflammatory response to acute endoluminal vascular injury. NIH/NHLBI-R01-HL-75211. Period: 07/01/2004-06/30/2006.

Richard Kaslow, …, **Kui Zhang (Co-Investigator)**. Chromosome 6p21-24 Markers in HIV-Related Kaposi Sarcoma. To search beyond the reported associations of *HLA* class II alleles with HIV-KS for alternative genetic determinants within and telomeric to the HLA complex. NIH/NCI-R01-CA-106168. Period: 07/01/2004-06/30/2008.

Richard Kaslow, …, **Kui Zhang (Co-Investigator)**. Population Genetics Analysis Program: Immunity to Vaccines/Infections. To identify host genetic characteristics that determine and predict the variability in antibody responses and adverse reactions to anthrax vaccine (AVA). NIH/NIAID-R01-AI-40068. Period: 09/01/2004-08/31/2010.

Richard Kaslow, …, **Kui Zhang (Co-Investigator)**. CTL and HIV Polymorphisms in Heterosexual Transmission. To study CTL and HIV polymorphisms in heterosexual transmission. NIH/Emory University-R01-AI-064060. Period: 12/01/2004-03/31/2015.

Jianming Tang, ..., **Kui Zhang (Co-Investigator)**. Heterogeneity in Cytokine Responses to HIV-1 Infection. The major goal is to study the cytokine responses to HIV-1 infection. NIH/NIAID-K02-AI-76123. Period: 07/01/2007-06/30/2009.

Guimin Gao, …, **Kui Zhang (Co-Investigator).** Haplotyping and QTL Mapping in Pedigrees with Missing Data. The major goal is to develop haplotyping and IBD probability estimation methods for large pedigrees with large numbers of loci and with missing marker data. NIH/NIGMS-R01-GM-073766. Period: 07/01/2007-10/30/2009.

Nianjun Liu, ..., **Kui Zhang (Co-Investigator)**. Genome Wide Haplotype Association Analysis. To develop novel statistical and computational methods and software tools for the analysis of haplotypes in mapping of complex human disease genes, especially in the presence of missing genotypes and genotyping errors and with large number of markers. NIH/NIGMS-R01-GM-081488. Period: 04/01/2008-03/31/2014.

Richard Kaslow, ..., **Kui Zhang (Co-Investigator)**. Host Genetic Epidemiology in HIV-1-Discordant African Couples and Other Cohorts. The overall goal of this project is to investigate the influence of polymorphism in genes regulating two major pathways in the pathogenesis of HIV/AIDS among HIV-1 discordant African couples. NIH/NIAID-R01-AI-71906. Period: 05/01/2008 – 07/30/2014.

Brahim Aissani, …, **Kui Zhang (Co-Investigator)**. Genetic Determinants of Uterine Fibroids in African-American and Caucasian Women. The major goal of this project is to dissect the genetic architecture of a subregion of human chromosome 1q43 associated with

rare familial syndromes of uterine leiomyomas (fibroids) to evaluate its effects on the population risk. NIH/NICHD/NIEHS-R01-HD-064398. Period: 04/01/2010-03/31/2014.

Xiangyang Lou, …, **Kui Zhang (Co-Investigator).** Detection of multifactor interactions with application to nicotine dependence. The major goal of this project is to develop new method (GMDR) and computer software for identifying gene-gene and gene-environment interactions underlying complex diseases and to detect interactive susceptibility loci or genes for nicotine dependence in cigarette smokers. NIH/NIDA R01DA025095. Period: 01/01/2011-04/01/14.

Kui Zhang (Co-Investigator), …, **Caryn Heldt** (Principal Investigator). MI-SAPPHIRE (Michigan Sequencing Academic Partnership for Public Health Innovation and Response): Genomic Surveillance and Epidemiology in the Upper Peninsula. Statement of Michigan Department of Health and Human Services. Period: 10/01/2021-07/31/2023.

Grants Recently Submitted but Not Funded (Selected)

Kui Zhang (Principal Investigator), Nianjun Liu (Principal Investigator). Statistical methods for family-based next generation sequencing data. R21 to NIH/NHGRI. Submitted in October of 2014.

Hairong Wei, **Kui Zhang (Co Principle Investigator)**. Enhancing biological knowledge discovery by joint construction of hub-centered networks using expression data from multiple tissues or conditions. NSF ABI Innovation. Submitted in September of 2017.

Peer Reviewed Publications (: first and/or senior corresponding author)**

1. **Kui Zhang****, Hongyu Zhao. 2000. Assessing reliability of gene clusters from gene expression data. *Functional & Integrative Genomics* 1: 156-173. (PMID: 11793234)

2. **Kui Zhang****, Dayue Chen. 2001. The probabilistic study of *d*-SAT problem. *Advances in Mathematics (Chinese)* 30: 231-237.

3. Jinming Li, Dai Wang, Jianping Dong, Renfang Jiang, **Kui Zhang**, Shuanglin Zhang, Hongyu Zhao, Fengzhu Sun. 2001. The power of transmission disequilibrium tests for quantitative traits. In: Wijsman EM, Almasy L, Amos CI, Borecki I, Falk CT, King TM, Martinez MM, Meyers D, Neuman R, Olson JM, Rich S, Spence MA, Thomas DC, Vieland VJ, Witte JS, MacCluer JW (Editors), *Analysis of complex genetic traits: Applications to asthma and simulated data.* In *Genetic Epidemiology* 21(Suppl 1): S632-S637. (PMID: 11793752)

4. Shuanglin Zhang, **Kui Zhang**, Jinming Li, Fengzhu Sun, Hongyu Zhao. 2001. Test of linkage and association for quantitative traits in general pedigrees: the quantitative pedigree disequilibrium test. In: Wijsman EM, Almasy L, Amos CI, Borecki I, Falk CT,

King TM, Martinez MM, Meyers D, Neuman R, Olson JM, Rich S, Spence MA, Thomas DC, Vieland VJ, Witte JS, MacCluer JW (Editors), *Analysis of complex genetic traits: Applications to asthma and simulated data.* In *Genetic Epidemiology* 21(Suppl 1): S370-S375. (PMID: 11793701)

5. Shuanglin Zhang, **Kui Zhang**, Jinming Li, Hongyu Zhao. 2002. On a family-based haplotype pattern mining method for linkage disequilibrium mapping. *The Proceeding of Pacific Symposium on Biocomputing* 7: 100-111. (PMID: 11928467)

6. **Kui Zhang****, Minghua Deng, Ting Chen, Michael S. Waterman, Fengzhu Sun. 2002. A dynamic programming algorithm for haplotype block partitioning. *Proceedings of the National Academy of Sciences of the United States of America* 99: 7335-7339. (PMID: 12032283; PMCID: PMC124231)

7. **Kui Zhang****, Peter Calabrese, Magnus Nordborg, Fengzhu Sun. 2002. Haplotype structure and its applications to association studies: power and study designs. *The American Journal of Human Genetics* 71: 1386-1394. (PMID: 12439824; PMCID: PMC378580)

8. **Kui Zhang****, Fengzhu Sun, Michael S. Waterman, Ting Chen. 2003. Haplotype block partition with limited resources and applications to human chromosome 21 haplotype data. *The American Journal of Human Genetics* 73: 63-73. (PMID: 12802783; PMCID: PMC1180591)

9. Sung Kim, **Kui Zhang**, Fengzhu Sun. 2003. Detecting susceptibility genes in case-control studies using set association analysis. In: Almasy L, Amos CI, Bailey-Wilson JE, Cantor RM, Jaquish CE, Martinez M, Neuman RJ, Olson JM, Palmer LJ, Rich SS, Spence MA, MacCluer JW (Editors) Genetic Analysis Workshop 13: Analysis of Longitudinal Family Data for Complex Diseases and Related Risk Factors. *BMC Genetics* 2003, 4(Suppl 1): S9. (PMID: 14975077; PMCID: PMC1866530)

10. Minghua Deng, **Kui Zhang**, Shipra Mehta, Ting Chen, Fengzhu Sun. 2003. Prediction of protein function using protein-protein interaction data. *Journal of Computational Biology* 10: 947-960. **(**PMID: 14980019)

11. Sung Kim, **Kui Zhang**, Fengzhu Sun. 2004. A comparison of different strategies for computing confidence intervals of the linkage disequilibrium measure. *The Proceeding of Pacific Symposium on Biocomputing* 9: 128-139. (PMID: 14992498)

12. Thomas G. Schulze, **Kui Zhang**, Yu-Sheng Chen, Nirmala Akula, Fengzhu Sun, Francis J. McMahon. 2004. Defining haplotype blocks and tag single-nucleotide polymorphisms in the human genome. *Human Molecular Genetics* 35: 335-342. (PMID: 14681300)

13. **Kui Zhang****, Zhaohui Qin, Jun Liu, Ting Chen, Michael S. Waterman, Fengzhu Sun. 2004. Haplotype block partitioning and tag SNP selection using genotype data and their

applications to association studies. *Genome Research* 14: 908-916. (PMID: 15078859; PMCID: PMC479119)

14. **Kui Zhang****, Fengzhu Sun, Hongyu Zhao. 2005. HAPLORE: A program for haplotype reconstruction in general pedigrees without recombination. *Bioinformatics* 21: 90-103. (PMID: 15231536)

15. **Kui Zhang****, Zhaohui Qin, Ting Chen, Jun Liu, Michael Waterman, Fengzhu Sun. 2005. HapBlock: haplotype block partitioning and tag SNP selection software using a set of dynamic programming algorithms. *Bioinformatics* 21: 131-134. (PMID: 15333454)

16. T. Mark Beasley, Howard Wiener, **Kui Zhang**, Alfred A. Bartolucci, Christopher I. Amos, David Allison. 2005. Empirical Bayes method for incorporating data from multiple genome scans. *Human Heredity* 60: 36-42. (PMID: 16137992)

17. **Kui Zhang****, Fengzhu Sun. 2005. Assessing the power of tag SNPs in mapping of quantitative trait loci (QTL) with extremal and random samples. *BMC Genetics* 6: 51. (PMID: 16236175; PMCID: PMC1274312)

18. Yao-Ting Huang, **Kui Zhang**, Ting Chen, Kun-Mao Chao. 2005. Selecting additional tag SNPs for tolerating missing data in genotyping. *BMC Bioinformatics* 6: 263. (PMID: 16259642; PMCID: PMC1316880)

19. **Kui Zhang**,** Hongyu Zhao. 2006. A comparison of several methods for haplotype frequency estimation and haplotype reconstruction for tightly linked markers from general pedigrees. *Genetic Epidemiology* 30: 423-437. (PMID: 16685719)

20. **Kui Zhang**,** Howard Wiener, Marker Beasley, Varghese George, Christopher I. Amos, David Allison. 2006. An empirical Bayes method for updating inferences in analysis of quantitative-trait loci using information from related genome Scans. *Genetics* 173: 2283-2296. (PMID: 16751667; PMCID: PMC1569725)

21. Jessica M. Grunda, L. Burton Nabors, Cheryl A. Palmer, David C. Chhieng, Adam D. Steg, Tom Mikkelsen, Robert B. Diasio, **Kui Zhang**, David Allison, William E. Grizzle, Wenquan Wang, Yancey Gillespie, Martin R. Johnson. 2006. Increased expression of thymidylate synthetase (TS), ubiquitin specific protease 10 (USP10) and survivin associated with poor survival in glioblastoma multiforme (GBM). *Journal of Neuro-Oncology* 80: 261-274. (PMID: 16773218)

22. Shannon A. Ross, Zdenek Novak, Rekha A. Kumbla, **Kui Zhang**, Karen B. Fowler, Suresh Boppana. 2007**.** GJB2 and GJB6 mutations in children with congenital cytomegalovirus**.** *Pediatric Research* 61: 687-691. (PMID: 17426645)

23. Hua Li, Guimin Gao, Jian Li, Grier P. Page, **Kui Zhang**. 2007. Detecting epistatic interactions contributing to human gene expression using the CEPH family data. *BMC Proceeding 2007,* 1 (Suppl 1): S33. (PMID: 18466568; PMCID: PMC2367573)

24. Yun Joo Yoo, Guimin Gao, **Kui Zhang****. 2007. Case-control association analysis of rheumatoid arthritis with candidate genes using related cases. *BMC Proceeding 2007,* 1(Suppl 1): S67. (PMID: 18466531; PMCID: PMC2367547)

25. Yun Joo Yoo, Jianming Tang, Richard A. Kaslow, **Kui Zhang****. 2007. Haplotype inference for present-absent genotype using previously identified haplotypes and haplotype patterns. *Bioinformatics* 23: 2399-2406. (PMID: 17644820)

26. Nianjun Liu, **Kui Zhang****, Hongyu Zhao. 2008. Haplotype-association analysis. D.C. Rao and C. Charles Gu (Editors): Genetic Dissection of Complex Traits. Advances in Genetics 60: 335-405. (PMID: 18358327)

27. Yong-Jun Liu, Jose M. Ordovas, Guimin Gao, Michael Province, Robert J. Straka, Michael Y. Tsai, Chao-Qiang Lai, **Kui Zhang**, Ingrid Borecki, James E. Hixson, David B. Allison, Donna K. Arnett. 2008. The SCARB1 gene is associated with lipid response to dietary and pharmacological interventions. *The Journal of Human Genetics* 53: 709-717. (PMID: 18542840; MPMCID: PMC3836273)

28. Yong-Jun Liu, Jose M. Ordovas, Guimin Gao, Michael Province, Robert J. Straka, Michael Y. Tsai, Chao-Qiang Lai, **Kui Zhang**, Ingrid Borecki, James E. Hixson, David B. Allison, Donna K. Arnett. 2009. Pharmacogenetic association of the APOA1/C3/A4/A5 gene cluster and lipid responses to fenofibrate - the genetics of lipid lowering drugs and diet network study. *Pharmacogenetics and Genomics* 19: 161-169. (PMID: 19057464; PMCID: PMC2733171)

29. Zhe Lei, Reng-Yun Liu, Jun Zhao, Zeyi Liu, Xiefang Jiang, Weiming You, Xiao-Feng Chen, Xia Liu, **Kui Zhang**, Boris Pasche, Hong-Tao Zhang. 2009. *TGFBR1* haplotypes and risk of non-small cell lung cancer. *Cancer Research* 69:7046-7052. (PMID: 19690145; PMCID: PMC2737098)

30. Douglas K. Childers, Guolian Kang, Nianjun Liu, Guimin Gao, **Kui Zhang****. 2009. Application of imputation methods to the analysis of rheumatoid arthritis data in genome-wide association studies. *BMC Proceedings 3 (Suppl 7): S24*. (PMID: 20018014; PMCID: PMC2795921)

31. Guolian Kang, Douglas K. Childers, Nianjun Liu, **Kui Zhang**, Guimin Gao. 2009. Genome-wide association studies of rheumatoid arthritis data via multiple hypothesis testing methods for correlated tests. *BMC Proceedings 3 (Suppl 7): S38*. (PMID: 20018029; PMCID: PMC2795936)

32. Aleksandr Lazaryan, Wei Song, Elena Lobashevsky, Jianming Tang, Sadeep Shrestha, **Kui Zhang**, Lytt I. Gardner, Craig M. Wilson, Richard A. Kaslow. 2010. Human

leukocyte antigen class I supertypes and HIV-1 control in African-Americans. *Journal of Virology* 84: 2610-2617. (PMID: 20032191; PMCID: PMC2820922)

33. Li Ma, Yan Xiao, Hui Huang, Weinian Rao, Qingwei Wang, Yue Feng, **Kui Zhang**, Qing Song. 2010. Direct determination of molecular haplotypes by chromosome microdissection. *Nature Methods* 7: 299-301. (PMID: 20305652; PMCID: PMC2871314)

34. Michael A. Froelich, Mark S. Bolding, Gary R. Cutter, Timothy H Ness, **Kui Zhang**. 2010. Temporal characteristics of cold pain perception. *Neuroscience Letters* 480: 12-15. (PMID: 20493237; PMCID: PMC3708606)

35. Boris Pasche, Kari B. Wisinski, Maureen Sadim, Virginia Kaklamani, Michael Pennison, Qinghua Zeng, Naresh Bellam, Jacquelyn Zimmerman, Nengjun Yi, **Kui Zhang**, John Baron, Daniel O. Stram, M. Geoffrey Hayes. 2010. Constitutively decreased *TGFBR1* allelic expression is a common finding in colorectal cancer and is associated with three *TGFBR1* SNPs. *Journal of Experimental & Clinical Cancer Research* 29: 57. (PMID: 20500843; PMCID: PMC2890549)

36. Shi Wei, Michael G. Conner, **Kui Zhang**, Gene P. Siegal, Lea Novak. 2010. Juxtatumoral stromal reactions in uterine endometrioid adenocarcinoma and their prognostic significance. *International Journal of Gynecological Pathology* 29: 562-567. (PMID: 20881855)

37. Xuxia Wu, Amit Patki, Cristina Lara-Castro, Xiangqin Cui, **Kui Zhang**, R. Grace Walton, Michael V Osier, Gary L. Gadbury, David B. Allison, Mitchell Martin, W. Timothy Garvey. 2011. Genes and biochemical pathways in human skeletal muscle affecting resting energy expenditure and fuel partitioning. *Journal of Applied Physiology* 110: 746-755. (PMID: 21109598; PMCID: PMC3070475)

38. Liyan Gao, Zhide Fang, **Kui Zhang,** Degui Zhi, Xiangqin Cui. 2011. Length bias correction for RNA-seq data in gene set analyses. *Bioinformatics* 27: 662-669. (PMID: 21252076; PMCID: PMC3042188)

39. Gu Jing, Kaiyu Yuan, Amy Turk, Nirag Jhala, Juan Arnoletti, **Kui Zhang**, Jay McDonald, Yabing Chen. 2011. Tamoxifen enhances therapeutic effects of gemcitabine on cholangiocarcinoma tumorigenesis. *Laboratory Investigation* 91: 896-904. (PMID: 21464824)

40. Aleksandr Lazaryan, Wei Song, Elena Lobashevsky, Jianming Tang, Sadeep Shrestha, **Kui Zhang**, Janet M. McNicholl, Lytt I. Gardner, Craig M. Wilson, Robert S. Klein, Anne Rompalo, Kenneth Mayer, Jack Sobel, Richard A. Kaslow for the HIV Epidemiology Research Study Group and Reaching for Excellence in Adolescent Care and Health Study Group. 2011. The influence of human leukocyte antigen class I alleles and their population frequencies on human immunodeficiency virus type 1 control

among African Americans. *Human Immunology* 72: 312-318. (PMID: 21262311; PMCID: PMC3778654)

41. Jun Li, **Kui Zhang**, Nengjun Yi. 2011. A Bayesian hierarchical model for detecting haplotype-haplotype and haplotype-environment interactions in genetic association studies. *Human Heredity* 71: 148-160. (PMID: 21778734; PMCID: PMC3153342)

42. Virginia Kaklamani, Nengjun Yi, Maureen Sadim, Kalliopi Siziopikou, **Kui Zhang**, Yianfei Xu, Sarah Tofilon, Surbhi Agarwal, Boris Pasche, Christos Mantzoros. 2011. The role of the fat mass and obesity associated gene (FTO) in breast cancer risk. *BMC Medical Genetics* 12: 52. (PMID: 21489227; PMCID: PMC3089782)

43. Kaiyu Yuan, Gu Jing, Jianfeng Chen, Hui Liu, **Kui Zhang**, Jay M McDonald, Yabing Chen. 2011. Calnodulin mediates Ffas-induced FADD-independent survival signaling in pancreatic cancer cells via activation of Src-extracellular signal-regulated kinase (ERK). *The Journal of Biological Chemistry* 286: 24776-24784. (PMID: 21613217; PMCID: PMC3137053)

44. Nicholas M. Pajewski, Scott D. Parker, Gregory A. Poland, Inna G. Ovsyannikova, Wei Song, **Kui Zhang**, Brett A. McKinney, Vernon S. Pankratz, Jeffrey C. Edberg, Robert P. Kimberly, Jianming Tang, Richard A. Kaslow. 2011. The role of HLA-DR-DQ haplotypes in variable antibody to anthrax vaccine adsorbed. *Genes and Immunity* 12: 457-465. (PMID: 21368772; PMCID: PMC3165112)

45. Virginia Kalamani, Nengjun Yi, **Kui Zhang**, Maureen Sadim, Kenneth Offit, Carole Oddoux, Harry Ostrer, Christos Mantzoros, Boris Pasche. 2011. Polymorphisms of ADIPOQ and ADIPOR1 and prostate cancer risk. *Metabolism* 60: 1234-1243. (PMID: 21397927; PMCID: PMC3134585)

46. Boshao Zhang, Degui Zhi, **Kui Zhang**, Guimin Gao, Nita N. Limdi, Nianjun Liu. 2011. Practical consideration of genotype imputation: sample Size, window Size, reference choice, and untyped rate. *Statistics and Its Inference* 4: 339-352. (PMID: 22308193; PMCID: PMC3269888)

47. Reng-Yun Liu, Xiaoxue Song, Ping Chen, Zhe Lei, Jingcheng Miao, Nengjun Yi, **Kui Zhang**, Boris Pasche, Hong-Tao Zhang. 2012. Association between IL6-174G/C and cancer: A meta analysis of 105,482 individuals. *Experimental and Therapeutic Medicine* 3: 655-664. (PMID: 22969947; PMCID: PMC3438703)

48. Adam D. Steg, Kerri S. Bevis, Ashwini A. Katre, Angela Ziebarth, Ronald D. Alvarez, **Kui Zhang**, Michael Conner, Charles N. Landen. 2012. Stem cell pathways contribute to clinical chemoresistance in ovarian cancer. *Clinical Cancer Research* 18: 869-881. (PMID: 22142828; PMCID: PMC3271164)

49. Shi Wei, Christopher Kragel, **Kui Zhang**, Omar Hameed. 2012. Factors associated with residual disease after initial breast-conserving surgery for ductal carcinoma in situ. *Human Pathology* 43:986-993. (PMID: 22221704)

50. Degui Zhi, Jihua Wu, Nianjun Liu, **Kui Zhang****. 2012. Genotype calling from next generation sequencing data using haplotype information of reads. *Bioinformatics* 28: 938-946. (PMID: 22285565; PMCID: PMC3493122)

51. Wan-Yu Lin, Hemant K. Tiwari, Guimin Gao, **Kui Zhang**, John J. Arcaroli, Edward Abraham, Nianjun Liu. 2012. Similarity-based multimarker association tests for continuous traits. *Annals of Human Genetics* 3: 246-260. (PMID: 22308193; PMCID: PMC3269888)

52. Michael Froelich, Alice Esame, **Kui Zhang**, Jihua Wu, John Owen. 2012. What factors affect intrapartum maternal temperature? A prospective cohort study: maternal intrapartum temperature. *Anesthesiology* 117: 302-308. (PMID: 22828418)

53. Wan-Yu Lin, Nengjun Yi, Degui Zhi, **Kui Zhang**, Guimin Gao, Hemant K. Tiwari, Nianjun Liu. 2012. Haplotype-based methods for detecting uncommon causal variants with common SNPs. *Genetic Epidemiology* 36: 572-582. (PMID: 22706849; PMCID: PMC3513398).

54. Yong Sun, Chang Hyun Byon, Kaiyu Yuan, Jianfeng Chen, Xiao Mao, Jack M Healthm Amjad Javed, **Kui Zhang**, Peter G Anderson, Yabing Chen. 2012. Smooth muscle cell-specific runx2 deficiency inhibits vascular calcification. *Circulation Research* 111 543-552. (PMID: 22773442; PMCID: PMC3678289)

55. Yan Y. Sanders, Namasivayam Ambalavanan, Brian Halloran, Xiangyu Zhang, Hui Liu, David K. Crossman, Mooly Bary, **Kui Zhang**, Victor J. Thannickal, James S. Hagood. 2012. Altered DNA methylation profile in idiopathic pulmonary fibrosis. *American Journal of Respiratory and Critical Care Medicine* 186: 625-635. (PMID: 22700861; PMCID: PMC3480526)

56. Maria Azrad, **Kui Zhang**, Robin T. Vollmer, John Madden, Thomas Polascik, Denise C. Snyder, Mack T. Ruffin, Judd Moul, Dean Brenner, Robert W. Hardy, Wendy Demark-Wahnefried. 2013. Prostatic alpha-linolenic acid (ALA) is positively associated with aggressive prostate cancer: A relationship which may depend on genetic variation in ALA metabolism. *PLoS One* 7: e53104. (PMID: 23285256; PMCID: PMC3532426)

57. Jun Chen, Reng-Yun Liu, Lixin Yang, Jun Zhao, Xueying Zhao, Daru Lu, Nengjun Yi, Baohui Han, Xiao-Feng Chen, **Kui Zhang**, Jun He, Zhe Lei, Yifeng Zhou, Boris Pasche, Xiangdong Li, Hong-Tao Zhang. 2013. A two-SNP IL-6 promoter haplotype is associated with increased lung cancer risk. *Journal of Cancer Research and Clinical Oncology* 139: 231-242. (PMID: 23052692)

58. Michael A. Frolich, **Kui Zhang**, Timothy H Ness. 2013. Effect of sedation on pain perception. *Anesthesiology* 118: 611-621. (PMID: 23314164; PMCID: PMC3744342)

59. Weinian Rao, Yamin Ma, Li Ma, Jian Zhao, Qiling Li, Weikuan Gu, **Kui Zhang**, Vincent C. Bond, Qing Song. 2013. High-resolution whole-genome haplotyping using limited seed data. *Nature Methods* 10: 6-7. (PMID: 23269372; PMCID: PMC3835542)

60. Brahim Aissani, Howard Wiener, **Kui Zhang**, Donna D Baird. 2013. Multiple hits for the association of uterine fibroids on human chromosome 1q43. *PLoS One* 8: e58399. (PMID: 23555580; PMCID: PMC3604173)

61. Aimee M. Merino, **Kui Zhang**, Richard A. Kaslow, Brahim Aissani. 2013. Structure of tumor necrosis factor-alpha haploblocks in European populations. *Immunogenetics* 65: 543-552. (PMID: 23579626; PMCID: PMC3985396)

62. Wan-Yu Lin, Nengjun Yi, Xiang-Yang Lou, Degui Zhi, **Kui Zhang**, Guimin Gao, Hemant K. Tiwari, Nianjun Liu. 2013. Haplotype kernel association test as a powerful method to identify chromosomal regions harboring uncommon causal variants. *Genetic Epidemiology* 37: 560-570. (PMID: 23740760; PMCID: PMC4116485)

63. **Kui Zhang****, Degui Zhi. 2013. Joint haplotype phasing and genotype calling of multiple individuals using long-range haplotype informative reads. *Bioinformatics* 29: 2427-2434. (PMID: 23943637; PMCID: PMC3777110)

64. Thuy L. Nguyen, William E. Grizzle, **Kui Zhang**, Omar Hameed, Gene P. Siegal, Shi Wei. 2013. Syndecan-1 overexpression is associated with nonluminal subtypes and poor prognosis in advanced breast cancer. *American Journal of Clinical Pathology* 140: 468-474. (PMID: 24045542)

65. Walcott M. Melonie, Pauline E. Jolly, John E Ehiri, Ellen F. Funkhouser, Mirjam C. Kempf, Deborah Hickman, Maung Aung, **Kui Zhang**. 2013. Factors associated with the acceptability of male circumcision among men in Jamaica. *PLoS One* 8: e75074. (PMID: 24066164; PMCID: PMC3774608)

66. Ntui N. Asundeop, April P. Carson, Cornelius Archer Turpin, Berhanu Tameru, Ada T. Aqidi, **Kui Zhang**, Pauline E. Jolly. 2013. Determinants of access to antenatal care and birth outcomes in Kumasi, Ghana. *Journal of Epidemiology and Global Health* 3: 279-288. (PMID: 24206799; PMCID: PMC3989481)

67. Brahim Aissani, Howard Wiener, **Kui Zhang**, Kisani M. Ogwaro, Sadeep Shrestha, Lisa P. Jacobson. 2014. A candidate gene approach for virally-induced cancer with application to HIV-related Kaposi's sarcoma. *The International Journal of Cancer* 134: 397-404. (PMID: 23818101; PMCID: PMC4007164)

68. Ntui N. Asundep, Pauline E. Jolly, April Carson, Cornelius A. Turpin, **Kui Zhang**, Berhanu Tameru. 2014. Antenatal care attendance, a surrogate for pregnancy outcome?

The case of Kumasi, Ghana. *Maternal and Child Health Journal* 18: 1085-1094. (PMID: 23948806; PMCID: PMC5034862)

69. Chaoling Dong, Travis S. Ptacek, David T. Redden, **Kui Zhang**, Elizabeth E. Brown, Jeffrey C. Edberg, Gerald McGwin Jr., Graciela S. Alarcon, Rosalind Ramser-Goldman, John D. Reveille, Luis M. Vila, Michele Petri, Aijian Qin, Jianming Wu, Robert P. Kimberly. 2014. FcyRIIIa SNP haplotype alleles affect human IgG binding and association with lupus nephritis in African Americans. *Arthritis and Rheumatism* 66: 1291-1299. (PMID: 24782186; PMICID: PMC4069204)

70. Ntui N. Asundep, Pauline E. Jolly, April P. Carson, Cornellius A. Turpin, **Kui Zhang**, Wilson O. Nana, Jonathan K. Stiles, Berhanu Tameru. 2014. Effect of malaria and geohelminth infection on birth outcomes in Kumasi, Ghana. *International Journal of Tropical Disease and Health* 4: 582-594. (PMID: 25414840; PMCID: PMC4235765)

71. Melonie M. Walcott, Ellen Funkhouser, Maung Aung, Mirjam C. Kempf, JohnEhiri, **Kui Zhang**, Marion Bakhoya, Deborah Hickman, Pauline E. Jolly. 2014. Gender norms and sexual behaviors among men in western Jamaica. *Sexual Health* 11: 42-51. (PMID: 24618497)

72. Heather A. Prentice, Nicholas M. Pajewski, Dongning He, **Kui Zhang**, Elizabeth E. Brown, William Kilembe, Susan Allen, Eric Hunter, Richard A. Kaslow, Jianming Tang. 2014. Host genetics and immune control of HIV-1 infection: fine mapping for the extended human MHC region in an African cohort. *Genes and Immunity* 15: 275-281. (PMID: 24784026; PMCID: PMC4111776)

73. Deyin Xing, Shadi A. Qasem, Koli Owusu, **Kui Zhang**, Gene P. Siegal, Shi Wei. 2014. Changing prognostic factors in osteosarcoma: analysis of 381 cases from two institutions. *Human Pathology* 45: 1688-1696. (PMID: 24931466)

74. Yamin Ma, Jian Zhao, Jian-Syuan Wong, Li Ma, Wenzhi Li, Guoxing Fu, **Kui Zhang**, Rick A. Kittles, Yun Li, Qing Song. 2014. Accurate inference of local phased ancestry of modern admixed populations. *Scientific Reports* 4: 5800. (PMID: 25052506; PMCID: PMC4107375)

75. Jihua Wu, Guo-Bo Chen, Degui Zhi, Nianjun Liu, **Kui Zhang****. 2014. A hidden Markov model for haplotype inference for present-absent data of clustered genes using identified haplotypes and haplotype patterns. *Frontiers in Genetics* 5: 267. (PMID: 25161663; PMCID: PMC4129397)

76. Brahim Aissani, **Kui Zhang**, Donna Day Baird, Howard Wiener. 2015. Follow-ups to genome-wide linkage and admixture mapping implicate components of the extracellular matrix in the pathogenesis of uterine fibroids. *Fertility and Sterility* 103: 528-534. (PMID: 25455875; PMCID: PMC4314358)

77. Xuelin Li, **Kui Zhang**, Nicholas M. Pajewski, Ilene Brill, Heather A. Prentice, Sadeep Shrestha, William Kilembe, Etiene Karita, Susan Allen, Eric Hunter, Richard A. Kaslow, Jianming Tang. 2015. Immunogenetic influences on acquisition of HIV-1 infection: consensus findings from two African cohorts point to an enhancer element in *IL19* (1q32.2). *Genes and Immunity* 16: 213-20. (PMID: 25633979; PMCID: PMC4409473)

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81. Melonie Walcott, John Ehiri, Mirjam Kempf, Ellen Funkhouser, Marion Bakhoya, Maung Aung, **Kui Zhang**, Pauline E. Jolly. 2015. Gender norms and family planning practices among men in western Jamaica. *American Journal of Men's Health* 9: 307-316. (PMID: 25077729)

82. Brahim Aissani, **Kui Zhang**, Arjen R. Mensenkamp, Fred H. Menko, Howard W. Wiener. 2015. Fine mapping of the uterine leiomyoma locus on 1q43 close to a lncRNA in the RGS7-FH interval. *Endocrine-Related Cancer* 22: 633-643. (PMID: 26113603; PMCID: PMC4526794)

83. Brahim Aissani, **Kui Zhang**, Howard W. Wiener. 2015. Evaluation of GWAS candidate susceptibility loci for uterine leiomyoma in the multi-ethnic NIEHS uterine fibroid study. *Frontiers in Genetics* 6: 241. (PMID: 26236334; PMCID: PMC4501220)

84. Xiao Zhang, W. John Boscardin, Thomas R. Berlin, Xiaohai Wan, Yulei He, **Kui Zhang**. 2015. A Bayesian method for analyzing combinations of continuous, ordinial, and nominal categorical data with missing values. *Journal of Multivariate Analysis* 135: 43-58.

85. **Kui Zhang****, Howard Wiener, Brahim Aissani. 2015. Admixture mapping of genetic variants for uterine fibroids. *Journal of Human Genetics* 60: 533-538. (PMID: 26040208; PMCID: PMC4583808)

86. Brandi C. McCleskey, Thuy L. Penedo, **Kui Zhang**, Omar Hameed, Gene P. Siegal, Shi Wei. 2015. GATA3 expression in advanced breast cancer: prognostic value and

organ-specific relapse. *The American Journal of Clinical Pathology* 144: 766-763. (PMID: 26486740)

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91. Tiansheng Shen, **Kui Zhang**, Gene P. Siegal, Shi Wei. 2016. The Prognostic Value of E-cadherin and β-catenin in Triple Negative Breast Cancer. *The American Journal of Clinical Pathology* 146: 603-610. (PMID: 27780797)

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96. Jessica Tracht, **Kui Zhang**, Deniz Peker. 2017. Grading and prognostication of neuroendocrinee tumors of the pancreas: A comparison study of Ki67 and PHH3.

Journal of Histochemistry and Cytochemistry 65: 399-405. (PMID: 28651471; PMCID: PMC5490847)

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98. Rong Li, **Kui Zhang**, Gene P. Siegal, Shi Wei. 2017. Clinical and Pathological Factors Related to Brain Relapse-free Survival in Breast Cancer Patients - Reply. *Human Pathology* 42. (PMID: 28655640)

99. Nirmal S. Sharma, Keith M. Wille, S. Athira, Degui Zhi, Kenneth P. Hough, Enrique Diaz-Guzman, **Kui Zhang**, Ranjit Kumar, Sunad Rangarajan, Peter Eipers, Yong Wang, Ritesh K. Srivastava, Jose Vicente Rodriguez Dager; Mohammad Athar, Casey Morrow, Charles W. Hoopes, David D. Chaplin, Victor J. Thannickal, Jessy S. Deshane. 2018. Distal Airway Microbiome is Associated with Immunoregulatory Myeloid Cell Responses in Lung Transplant Recipients. *Journal of Heart and Lung Transplantation* 37: 206-216. (PMID: 28756121; PMCID: PMC5893420)

100. Dermot P. Maher, Yuri Chaves Martins, Tina Doshi, Mark Bicket, **Kui Zhang**, George Hanna, Shihab Ahmed. 2018. Neuropathic Pain Medication Use Does Not Alter Outcomes of Spinal Cord Stimulation for Lower Extremity Pain. Neuromodulation 21: 106-113. (PMID: 28980364; PMCID: PMC5766415)

101. Chathura Gunasekara, **Kui Zhang**, Wenping Deng, Laura Brown, Hairong Wei. 2018. TGMI: An Efficient Algorithm for Identifying Pathway Regulators through Evaluation of Triple-Gene Mutual Interaction. *Nucleic Acids Research* 46: e67. (PMID: 29579312; PMCID: PMC6009660)

102. Zhenchuan Wang, Qiuying Sha, **Kui Zhang**, Shuanglin Zhang**.** 2018. Testing an Optimally Weighted Combination of Common and/or Rare Variants with Multiple Traits. *PLOS One* 13:e0201186. (PMID: 30048520; PMCID: PMC6062080)

103. Wenping Deng, **Kui Zhang**, Sanzhen Liu, Patrick Zhao, Shizhong Xu, Hairong Wei. 2018. JRmGRN: Joint reconstruction of multiple gene regulatory networks with common hub genes. *Bioinformatics* 15: 3470-3478. (PMID: 29718177)

104. Ashish Kurundkar, Xiaoqing Gao, **Kui Zhang**, Jacob P. Britt, Gene P.Siegal, Shi Wei. 2018. Comparison of AJCC Anatomic and Prognostic Stage Groups in Breast Cancer: Analysis of 3322 Cases from a Single Institution. *Clinical Breast Cancer* 18: e1347-e1352. (PMID: 30078612)

105. Smitha Mruthyunjayappa, **Kui Zhang**, Lanjing Zhang, Isam-Eldin A. Eltoum, Gene P. Siegal, Shi Wei. 2019. Synchronous and metachronous bilateral breast cancer: clinicopathologic characteristics and prognostic outcomes. *Human Pathology* 92: 1-9. (PMID: 31351153)

106. Theyab R Alsenani, **Kui Zhang**, Jing Qiu. 2020. Studying Power Outage Trends and Impact of Investments in the Smart Grid Technologies. *IE Research Journals*, 1-12.

107. Cheng Gao, Qiuying Sha, Shuanglin Zhang, **Kui Zhang**. 2021. Testing an Optimally Weighted Combination of Variants with Multiple Traits Using Family Data. *Genetic Epidemiology* 4: 64-81. (PMID: 33047835)

108. Rana Aldrees, Xiaoqing Gao, **Kui Zhang**, Gene Siegal, Shi Wei. 2021. Validation of the revised 8th AJCC breast cancer clinical prognostic staging system: analysis of 5321 cases from a single institution. *Modern Pathology* 34: 291-299. (PMID: 32778677)

109. Wenping Deng, **Kui Zhang**, Cheng He, Sanzhen Liu, Hairong Wei. 2021. HB-PLS: A statistical method for identifying biological process or pathway regulators by integrating Huber loss and Berhu penalty with partial least squares regression. *Forestry Research* 1: 6.

110. Cheng Gao, Hairong Wei, **Kui Zhang**. 2021. LORSEN: Fast and Efficient eQTL Mapping with Low Rank Penalized Regression. *Frontier in Genetics* 12: 690926. (PMID: 34868194; PMCID: PMC8636089)

111. Fei Fei, **Kui Zhang**, Gene Siegal, Shi Wei. 2021. A simplified breast cancer prognostic score: comparison with the AJCC clinical prognostic staging system. *Modern Pathology* 34:2141-2147. (PMID: 34365462)

112. Prajakta P Kokate, Morgan Smith, Lucinda Hall, **Kui Zhang**, Thomas Werner. 2022. Inter- and intraspecific variation in mycotoxin tolerance: A study of four Drosophila species. *Ecology and Evolution*, e9126. (PMID: 35898423; PMCID: PMC9309036; DOI: 10.1002/ece3.9126)

113. Nabhajit Gowsami, Hoshua A. Schultz, **Kui Zhang**, Stephen M. Morse. 2023. Estimation of flow parameters for holes in glass using maximum likelihood estimator. *Glass Structure and Engineering* 8: 405-421.

114. Xuewei Cao, Ling Zhang, Md Khairul Mislam, Mingxia Zhao, Cheng He, **Kui Zhang**, Sanzhen Liu, Qiuying Sha, Hairong Wei. 2023. TGPred: Efficient methods for predicting target genes of a transcription factor by integrating statistics, machine learning, and optimization. *NAR Genomics and Bioinformatics* 5: Iqad083. (PMID: 37711605; PMCID: PMC10498345; DOI: 10.1093/nargab/lqad083)

115. Goswami, Nabhajit, Joshua A. Schultz, **Kui Zhang**, R. A. Swartz, Daniel M. Dowden, and Stephen M. Morse. Estimation of Surface Flaw Parameters for Annealed Glass Using Maximum Likelihood Estimator and Comparison with Historical Estimated

Surface Flaw Parameters for Weathered and New Annealed Glass Samples. *Journal of Architectural Engineering* 31, no. 2 (2025): 04025011.

Publications in Books and Proceedings (: first and/or corresponding author)**

1. **Kui Zhang****, Ting Chen, Michael Waterman, Zhaohui Qin, Jun Liu, Fengzhu Sun. 2004. Dynamic programming algorithms for haplotype block partition and tag SNP selection using haplotype data or genotype data. In Sorin Istrail, Pavle Pevzner, and Michael Waterman (Editors): *Lecture Notes in Computer Science Volume 2983 - Computational Methods for SNPs and Haplotype Inference - DIMACS/RECOMB Satellite Workshop, Piscataway, NJ, USA, November, 21-22, 2002*. pp. 96-112.

2. **Kui Zhang****, Fengzhu Sun, Michael S. Waterman, Ting Chen. 2004. Dynamic programming algorithms for partitioning sequence variation in human chromosomes. *Proceedings of the 6th Hellenic European Conference on Computer Mathematics and its Applications (HERCMA-2003), Athens, Greece, September 25-27, 2003*. pp. 15-26.

3. Yao-Ting Huang, **Kui Zhang**, Ting Chen, Kun-Mao Chao. 2004. Approximation algorithms for the selection of robust tag SNPs. In Inge Jonassen and Junhyong Kim (Editors): *Lecture Notes in Computer Science/Lecture Notes in Bioinformatics Volume 3240 - Algorithms in Bioinformatics - 4th International Workshop, WABI 2004, Bergen, Norway, September 17-21*. pp. 278-289.

4. Marie-Pierre St-Onge, Grier P. Page, Maria DeLuca, **Kui Zhang**, Kyoungmi Kim, Steven B. Heymsfield, David B. Allison. 2004. Design and analysis of microarray studies for obesity research. In Carolyn D. Berdanier and Naima Moustaid-Moussa (Editors): *Genomics and Proteomics in Nutrition Research*. New York: Marcel-Dekker Inc. pp. 145-204.

5. Bernard Gorman, **Kui Zhang**. 2005. Cluster stability. In David Allison, Grier Page, Mark Beasley, and Jode Edwards (Editors): *DNA Microarrays and Statistical Genomic Techniques: Design, Analysis, and Interpretation of Experiments*. CRC Press. pp. 159-176.

6. **Kui Zhang****, Fengzhu Sun, Michael S. Waterman, Ting Chen. 2006. Dynamic programming algorithms for partitioning sequence variation in human chromosomes. Elias A. Lipitakis (Editor): *Computer Mathematics and Its Applications: Advances and Developments (1994-2005)*. LEA Publishers, Athens, Greece. pp. 431-442.

7. Yao-Ting Huang, **Kui Zhang**, Ting Chen, Kun-Mao Chao. 2007. Approximation algorithms for the selection of robust tag SNPs. Teofilo F. Gonzalez (Editor): *Handbook of Approximation Algorithms and Metaheuristics (Chapman & Hall/Crc Computer and Information Science Series).* Chapman & Hall/CRC Press. pp. 77.

8. Grier P. Page, Stanislav Zakharkin, Kyoungmi Kim, Tapan Mehta, Prashanth Yelisetti, Lang Chen, **Kui Zhang**. 2007. Microarray analysis. Walter Ambrosius (Editor): *Topics in Biostatistics (Methods in Molecular Biology)*. Humana Press. pp. 20.

9. **Kui Zhang****, Fengzhu Sun. 2008. Tag SNP selection and its applications in association studies. Hongwen Deng, Hui Shen, Yongjun Liu, and Hai Hu (Editors): Current Topics in Human Genetics: Studies in Complex Diseases. World Scientific Publishing. pp. 95-122.

10. **Kui Zhang****, Howard Weiner, T. Mark Beasley, Christopher I. Amos, David B. Allison. 2009. An empirical Bayesian framework for QTL genome-wide scans. Rudy Guerra and David Allison (Editors): *Meta-Analysis and Combining Information in Genetics.* CRC Press. pp. 67-80.

11. **Kui Zhang****, Hongyu Zhao. 2009. Family based association studies. Shili Lin and Hongyu Zhao (Editors): *Handbook on Analyzing Human Genetic Data - Computational Approaches and Software*. Springer. pp. 191-240.

12. Degui Zhi, **Kui Zhang****. 2014. Genotype calling and haplotype phasing from next generation sequencing data. Somnath Datta and Dan Nettleton (Editors): *Statistical Analysis of Next Generation Sequencing data*. Springer. pp. 315-334.

Other Publications

1. **Kui Zhang****.** 2011. Book Review for "Applied Statistical Genetics with R: For Population-based Association Studies by FOULKES, A.S." *Biometrics* 67: 1678-1679.

2. **Kui Zhang****.** 2013. Book Review for "Exercises and Solutions in Biostatistical Theory, by L.L. Kupper, B.H. Neelon, and S.M. O'Brien." *The American Statistician* 67: 261-265.

Manuscripts in Preparation (: first and/or corresponding author)**

1. Cheng Gao, **Kui Zhang**. 2022. BiNetPeR: a bipartite network based penalized regression method for eQTL mapping. In preparation.

2. Nabhajit Gowsami, Joshua A. Schultz, Leed A.P., **Kui Zhang**, R.R. Schwarz, Daniel M. Dowden, Stephen M. Morse. 2023. Estimation of surface flaw parameters for annealed glass using maximum likelihood estimation. Submitted to *Journal of Architectural Engineering*.

Invited Oral Presentations

Nov 1st, 2001	Department of Mathematics, University of Southern California, Los Angeles, California
Jun 6th, 2002	Los Angeles Area Statistical Genetics Meeting
Oct 10th, 2002	Department of mathematics, University of Southern California, Los Angeles, California
Oct 19th, 2002	The American Society of Human Genetics 52nd Annual Meeting, Baltimore, Maryland
Dec 17th, 2002	Department of Preventive Medicine and Epidemiology, Loyola University Medical Center
Jan 20th, 2003	Virginia Institute for Behavioral and Psychiatric Genetics (VIPBG), Virginia Commonwealth University
Feb 7th, 2003	Division Department of Biostatistics, University of Minnesota School of Public Health
Feb 20th, 2003	Department of Biostatistics, School of Public Health, University of Alabama at Birmingham
Mar 10th, 2003	Center for American-Indian Health Research, University of Oklahoma Health Sciences Center
Aug 8th, 2003	Department of Biochemistry and Molecular Biology, University of Indiana School of Medicine
May 28th, 2004	Interface 2004: Computational Biology and Bioinformatics, 36th Symposium on the Interface, Baltimore, Maryland.
Jun 13th, 2005	Workshop at Mathematical Biosciences Institute: Recombination: Hot Spots and Haplotype Structure, Columbus, Ohio.
Feb 5th, 2007	Department of Mathematics, Michigan Technological University, Houghton, Michigan
Feb 22nd, 2007	Department of Epidemiology, Michigan State University, East Lansing, Michigan
Mar 7th, 2007	Department of Informatics and Personalized Medicine, University of Missouri at Kansas City School of Medicine

May 11th, 2007	Computational Genomics Workshop, Department of Epidemiology, Michigan State University, East Lansing, Michigan
May 8th, 2008	NHGRI/NIH funded conference titled "Haplotype analysis of population and pedigree data in association studies", Birmingham, Alabama
Aug 6th, 2008	2008 Joint Statistical Meeting, Denver, Colorado
Jun 26th, 2009	International Workshop on Probability and Theory, Statistics and Their Applications to Biology, Beijing, P.R. China
Jul 1st, 2009	Faculty of Foundational Education, Beijing University Health Science Center, Beijing, P.R. China
Jul 8th, 2009	School of Mathematics of Shandong University, Jinan, Shandong Province, P.R. China
Sep 8th, 2009	Cardiovascular Research Institute (CVRI), Morehouse School of Medicine, Atlanta, Georgia
Mar 24th, 2010	Eastern North American Region/International Biometric Society (ENAR) 2010 Spring Meeting, New Orleans, LA
Jun 28th, 2011	International Chinese Statistical Association 2011 Applied Statistics Symposium, New York, 2011
Mar 28th, 2012	Computational Biology Symposium – 30 Years of Computational Biology at USC, Los Angeles
Mar 4th, 2013	School of Public Health, University of Wisconsin at Milwaukee
Mar 14th, 2013	Department of Family and Community Medicine, North Western Ohio Medical University
Mar 15th, 2013	Department of Statistics, University of Akron
Mar 27th, 2013	Department of Epidemiology, University of Indiana at Bloomington
Apr 26th, 2014	Department of Mathematical Sciences, Michigan Technological University
Feb 23rd, 2015	Department of Mathematical Sciences, Michigan Technological University
Oct 30th, 2015	Department of Biomedical Engineering, Michigan Technological University

Jun 25th, 2016	China Statistical Conference 2016, Qingdao, China
Jun 27th, 2017	International Chinese Statistical Association 2017 Applied Statistics Symposium, 2017, Chicago
Jun 15th, 2018	The 1st International Symposium on Genomics and Translational Medicine, 2018, Suzhou, China
Jul 1st, 2018	Fifth International Symposium on Statistical Genetics and Genomics, 2018, Jinan, China
Jul 4th, 2018	2018 International Chinese Statistical Association China Conference with the Focus on Data Science, 2018, Qingdao, China
Jul 13th, 2019	International Workshop on Applications of Probability and Statistics to Biology, 2019, Shanghai, China
Mar 4th, 2022	Department of Mathematics, Texas State University at San Marcos

Paper Review Activities for Journals

American Journal of Human Genetics
Annals of Epidemiology
Annals of Human Genetics
Applied Bioinformatics
Behavior Genetics
Bioinformatics
Biometrics
Biostatistics
BMC Bioinformatics
BMC Cancer
BMC Evolutionary Biology
BMC Genetics
BMC Genomics
BMC Immunology
BMC Infectious Diseases
BMC Medical Informatics and Decision Making
BMC Medical Genetics
BMC Microbiology
BMC Musculoskeletal Disorders
BMC Pediatrics
BMC Plant Biology
BMC Public Health
BMC Pulmonary Medicine

BMC Veterinary Research
BMC Women's Health
Cancer Informatics
Computational Statistics and Data Analysis
Computers and Electronics in Agriculture
Computers and Operations Research
Communications in Information and Systems
Electronics
European Journal of Human Genetics
Gene
Genes
Genetic Epidemiology
Genetics
Genetics Selection Evolution
Genome Research
Horticulture Research
Human Genetics and Genomics Advances
Human Heredity
Human Molecular Genetics
INFORMS Journal of Computing
IEEE/ACM Transactions on Computational Biology and Bioinformatics
IEEE Transactions on Information Technology in Biomedicine
IET System Biology
JAMA - The Journal of American Medical Association
Journal of Bioinformatics and Computational Biology
Journal of Clinical Endocrinology & Metabolism
Journal of Human Genetics
Journal of Medical Case Reports
Journal of Medical Statistics and Informatics
Frontiers in Biosciences
Frontiers in Genetics
Journal of the Theoretical Biology
Mathematics
Molecular Diagnosis and Therapy
Mutation Research
Nature Communications Biology
Obesity
Pharmacogenomics
Physica A
PLoS Genetics
PLoS One
Science Translational Medicine
Statistical Applications in Genetics and Molecular Biology
Statistics and its Inference
Statistics and Probability Letters
Statistics in Biosciences

Statistics in Medicine
Translational Psychiatry

Paper Review Activities for Conferences and Workshops

Workshop on Algorithms in Bioinformatics, Budapest, Hungary, Sep 15-20, 2003
2005 IEEE Computational Systems Bioinformatics Conference, Aug 8-12, 2005
Eighth Asia Pacific Bioinformatics Conference, Bangalore, India, Jan 18-21, 2010
2017 International Conference on Bioinformatics Research and Applications (ICBRA 2017), Barcelona, Spain, December 8-10, 2017
International Conference on Intelligent Biology and Medicine (ICIBM2018), Los Angeles, CA, USA, Jun 10-12, 2018
2018 International Conference on Bioinformatics Research and Applications (ICBRA 2018), Hong Kong, China, December 27-29, 2018
2019 International Conference on Bioinformatics Research and Applications (ICBRA 2019), Seoul, South Korea, June 19-21, 2019

Editorial Board

2020 - 2020	Review Editor, Frontiers in Genetics - Statistical Genetics and Methodology
2011 - Present	Statistical Adviser, BMC Genomics
2013 - Present	Editorial Board Member, Journal of Medical Statistics and Bioinformatics
2015 - Present	Editorial Board Member, Jacobs Journal of Genetics
2020 - Present	Associate Editor, Frontiers in Genetics - Statistical Genetics and Methodology
2024 – Present	Editorial Board Member, Informatics

Committee Member for Conferences and Workshops

Jun 2017 – Dec 2017 Technical Committee, 4th International Conference on Bioinformatics Research and Applications 2017 (ICBRA 2017), Barcelona, Spain, Dec 8-10, 2017

Jan 2018 – Jun 2018 Scientific Committee, 1st International Symposium on Genomics and Translational Medicine, Suzhou, China, Jun 14-17, 2018

Jun 2018 – Dec 2018 Technical Committee, 5th International Conference on Bioinformatics Research and Applications 2018 (ICBRA 2018), Hong Kong, China, Dec 27 – Dec 29, 2018

Jan 2019 – Jun 2019 Technical Committee, 6th International Conference on Bioinformatics Research and Applications 2019 (ICBRA 2019), Seoul, Korea, Jun 19 – Jun 21, 2019

Jan 2020 – Sep 2020 Technical Committee, 7th International Conference on Bioinformatics Research and Applications 2020 (ICBRA 2020), Berlin, Germany, Sep 13 – Sep 15, 2020

Jan 2021 – Sep 2021 Technical Committee, 8th International Conference on Bioinformatics Research and Applications 2021 (ICBRA 2021), Berlin, Germany, Sep 11 – Sep 13, 2021

Jan 2022 – Sep 2022 Publication Chair, 9th International Conference on Bioinformatics Research and Applications 2022 (ICBRA 2022), Berlin, Germany, Sep 18 – Sep 20, 2022

Jan 2023 – Sep 2023 Publication Chair, 10th International Conference on Bioinformatics Research and Applications 2023 (ICBRA 2023), Barcelona, Spain, Sep 22 – Sep 24, 2023

NIH Study Section

Jul 2011 – Jun 2017 Regular Member, NIH GCAT study section

Grant Review Activities for NSF and NIH

CI-Team Implementation Panel	NSF (Oct 25th-26th, 2007)
NIH/NIMMH- ZMH1-ERB-S Special Panel	NIH (Aug 14th, 2008)
NIH/NIA-ZAG1-ZIJ-7 Special Panel	NIH (Aug 15h, 2008)
NIH-BEGS Study Section	NIH (Jun 4th - 5th, 2009)
NIH-ZRG1-HDM-G (Challenge Grants)	NIH (June 29th, 2009)
NIH-ZRG1-HDM-P (Challenge Grants)	NIH (Jun 29th, 2009)
NIH-ZRG1-GGG-F (Challenge Grants)	NIH (Jul 5th, 2009)
NIH-GCAT Study Section	NIH (Oct 14th – 15th, 2009)
NIH-ZRG1-BST-M(30)-L	NIH (Oct 29th – 30th, 2009)
NIH-ZRG1-IMST-G(30)-S	NIH (Oct 14th – 15th, 2010)
NIH-ZGM1-BRT-X (KR)	NIH (Apr 4th, 2011)
NIH-GCAT Study Section	NIH (Jun 2nd – 3rd, 2011)
NIH-GCAT Study Section	NIH (Feb 9th – 10th, 2012)
NIH-GCAT Study Section	NIH (Jun 7th – 8th, 2012)
NIH-GCAT Study Section	NIH (Feb 9th – 10th, 2013)
NIH-GCAT Study Section	NIH (Dec 19th – 20th, 2013)
NIH-GCAT Study Section	NIH (Feb 19th-20th, 2014)
NIH-GCAT Study Section	NIH (June 6th – 7th, 2014)

NIH-GCAT Study Section	NIH (Feb 18th – 19th, 2015)
NIH-GCAT Study Section	NIH (Jun 9th – 10th, 2015)
NIH-GCAT Study Section	NIH (Feb 11th – 12th, 2016)
NIH-BMRD Study Section	NIH (Oct 21st – 22nd, 2016)
NIH-BMRD Study Section	NIH (Feb 23rd – 24th, 2017)
NIH-BMRD Study Section	NIH (Jun 15h – 16th, 2017)
NIH ZRG1 HDM W (I03) Special Panel	NIH (Mar 21st – 22nd, 2018)
NIH-BMRD Study Section	NIH (Feb 14th – 15th, 2019)
NIH/NCI ZCA1 SRB-F (O1) SEP-4 (P01)	NIH (Feb 8th – 8th, 2022)
NIH/NCI ZCA1 SRB-F (J1) SEP-A (P01)	NIH (Oct 13th – 14th, 2022)
NIH/NCI ZCA1 SRB-F (M1) SEP-C (P01)	NIH (Feb 15th – 16th, 2023)

Other Grant Review Activities

Research Growth Initiative (RGI)	UW at Milwaukee (Jan 13th, 2012)
Research Growth Initiative (RGI)	UW at Milwaukee (Jan 24th, 2014)
Research Growth Initiative (RGI)	UW at Milwaukee (Jan 26th, 2015)

Teaching Experiences

Sep 1994 – Jan 1995, Beijing University, Beijing, China
Teaching Assistant of Complex Function Analysis

Sep 1996 – Jan 1997, Beijing University, Beijing, China
Teaching Assistant of Mathematical Analysis

Mar 1997 – Jul 1997, Beijing University, Beijing, China
Teaching Assistant of the Multivariate Statistical Analysis

Mar 1997 – Jul 1997 and Mar 1998 – Jul 1998, Beijing University, Beijing, China
Course Master of Programming of Assembly Language, responsible for giving lectures, preparing and grading homework and exams, and supervising a TA.

Oct 21st, 2004, University of Alabama at Birmingham, AL
Guest Lecturer, 2-hour lecture of Statistical Analysis of Microarray Data

May 11th, 2005, University of Alabama at Birmingham, AL
Guest Lecturer, 1-hour lecture of Statistical Methods for Gene Mapping for Clinical Research Training Program (CRTP) at UAB

May 10th, 2006, University of Alabama at Birmingham, AL
Guest Lecturer, 1-hour lecture of Statistical Methods for Gene Mapping for Clinical Research Training Program (CRTP) at UAB

Aug 2006 – Dec 2006, University of Alabama at Birmingham, AL
Course Master for BST631: Statistical Theory I.

Apr 11th, 2007, University of Alabama at Birmingham, AL
Guest Lecturer, 1-hour lecture of Statistical Methods for Gene Mapping for Clinical Research Training Program (CRTP) at UAB

Aug 2007 – Dec 2007, University of Alabama at Birmingham, AL
Course Master for BST631: Statistical Theory I.

Jul 22nd, 2008, University of Alabama at Birmingham, AL
Guest Lecturer, 1.5-hour lecture of haplotype analysis in association studies for NSF funded short course on Statistical Genetics and Statistical Genomics

Aug 2007 – Dec 2007, University of Alabama at Birmingham, AL
Course Master for BST631: Statistical Theory I.

Jan 2009 – May 2009, University of Alabama at Birmingham, AL
Course Master for BST632: Statistical Theory II.

Jan 2010 – May 2010, University of Alabama at Birmingham, AL
Course Master for BST632: Statistical Theory II.

Aug 2010 – Dec 2010, University of Alabama at Birmingham, AL
Course Master for BST775: Statistical Methods for Genetic Analysis I.

Jan 31st, 2011, University of Alabama at Birmingham, AL
Guest Lecturer, 1.5-hour lecture of Introduction of the HapMap Project for BST695: Special Topics on Statistical Genomics.

Aug 2011 – Dec 2011, University of Alabama at Birmingham, AL
Course Master for BST695: Special Topics in Statistical Theory.

Jan 2012 – May 2012, University of Alabama at Birmingham, AL
Course Master for BST632: Statistical Theory II.

Aug 2012 – Dec 2012, University of Alabama at Birmingham, AL
Course Master for BST623: General Linear Models.

Jan 2013 – May 2013, University of Alabama at Birmingham, AL
Course Master for BST632: Statistical Theory II.

Aug 2013 – Dec 2013, University of Alabama at Birmingham, AL
Guest Lecturer, three 1.5-hour lectures of test for Hardy-Weinberg Equilibrium, allele frequency estimation and EM algorithm, and analysis of Linkage Disequilibrium and haplotypes for BST775: Statistical Methods for Genetic Analysis I.

Jan 2014 – May 2014, University of Alabama at Birmingham, AL
Course Master for BST632: Statistical Theory II.

Jan 2014 – May 2014, University of Alabama at Birmingham, AL
Guest Lecturer, three 1.5-hour lectures of analysis of next generation sequencing data and rare variants for BST776: Statistical Methods for Genetic Analysis II.

May 2014 - Aug 2014, University of Alabama at Birmingham, AL
Course Master for BST612: Intermediate Statistical Analysis II.

Jan 2015 – May 2015, University of Alabama at Birmingham, AL
Course Master for BST632: Statistical Theory II.

Aug 2015 – Dec 2015, Michigan Technological University, MI
Course Master for MA5701: Statistical Methods.

Jan 2016 – Apr 2016, Michigan Technological University, MI
Course Master for MA5980: Statistical Consulting.

Aug 2016 – Dec 2016, Michigan Technological University, MI
Course Master for MA5701: Statistical Methods.

Jan 2017 – Apr 2017, Michigan Technological University, MI
Course Master for MA3710: Engineering Statistics.

Sep 2017 – Dec 2017, Michigan Technological University, MI
Course Master for MA5701: Statistical Methods.
Course Master for MA3720: Probability.

Jan 2018 – Apr 2018, Michigan Technological University, MI
Course Master for MA5702: Statistical Consulting.
Course Master for MA5750: Statistical Genetics.

Sep 2018 – Dec 2018, Michigan Technological University, MI
Course Master for MA3720: Probability.
Course Master for MA5770: Bayesian Statistics.

Jan 2019 – Apr 2019, Michigan Technological University, MI
Course Master for MA4720: Design and Analysis of Experiments.

Jan 2019 – Dec 2019, Michigan Technological University, MI
Course Master for MA3720: Probability.

Jan 2020 – Apr 2020, Michigan Technological University, MI
Course Master for MA4720: Design and Analysis of Experiments (Online)

Course Master for MA5732: Generalized Linear Models.
Course Master for MA5750: Statistical Genetics.

Jul 2020 – Aug 2020, Michigan Technological University, MI
Course Master for MA5771: Applied Generalized Linear Models (Online)

Aug 2020 – Dec 2020, Michigan Technological University, MI
Course Master for MA3720: Probability.
Course Master for MA5770: Bayesian Statistics.

Jan 2021 – Apr 2021, Michigan Technological University, MI
Course Master for MA5701: Statistical Methods (Online)

May 2021 – Jun 2021, Michigan Technological University, MI
Course Master for MA4720: Design and Analysis of Experiments (Online)

Aug 2021 – Dec 2021, Michigan Technological University, MI
Course Master for MA3720: Probability.

Aug 2022 – Dec 2022, Michigan Technological University, MI
Course Master for MA5770: Bayesian Statistics.
Course Master for MA4720: Design and Analysis of Experiments (Online)

Jan 2023 – Apr 2023, Michigan Technological University, MI
Course Master for MA5712: Statistical Inference II.
Course Master for MA5771: Applied Generalized Linear Models (Online)

Aug 2023 – Dec 2023, Michigan Technological University, MI
Course Master for MA3720: Probability.
Course Master for MA3710: Engineering Statistics.

Jan 2024 – Apr 2024, Michigan Technological University, MI
Course Master for MA4720: Design and Analysis of Experiments (Online)
Course Master for MA5732:

Aug 2024 – Dec 2024, Michigan Technological University, MI
Course Master for MA5711: Mathematical Statistics I
Course Master for MA5770: Bayesian Statistics

Jan 2025 – Apr 2025, Michigan Technological University, MI
Course Master for MA5701: Statistical Methods
Course Master for MA5712: Mathematical Statistics I

May 2025 – Jun 2025, Michigan Technological University, MI
Course Master for MA4720: Design and Analysis of Experiments (Online)

Aug 2025 – Dec 2025, Michigan Technological University, MI
Course Master for MA5771: Applied Generalized Linear Models (Online)
Course Master for MA5711: Mathematical Statistics I

Jan 2026 – Apr 2026, Michigan Technological University, MI
Course Master for MA****:
Course Master for MA****:

Academic Advisor

Aug 2003 – Jul 2005	William Prucka (PhD student) at UAB
Aug 2008 – 2012	Ashutosh Ranjan (PhD student) at UAB
Aug 2008 – March 2015	Arvind Tripathi (PhD student) at UAB
Aug 2013 – August 2014	Yin He (PhD student) at UAB
Aug 2013 – Aug 2015	Shaonin Ji (MSPH student) at UAB

Dissertation Committee, University of Alabama at Birmingham (UAB)

2005-2005	Kisani Mary Ogwaro (PhD; Advisor: Prof. Richard Kaslow) Dept. of Epidemiology, UAB School of Public Health, UAB Dropped from the Program in 2006.
2005-2008	Aleksandr Lazaryan (PhD; Advisor: Prof. Richard Kaslow) Dept. of Epidemiology, UAB School of Public Health, UAB Dissertation Defended: June, 2008
2008-2010	Hongjiang Gao (PhD; Advisor: Prof. Inmaculada (Chichi) Aban) Dept. of Biostatistics, UAB School of Public Health, UAB Dissertation Defended: February, 2010
2008-2014	Gary Daigle (Dr. PH; Advisor: Prof. Pauline E Jolly) Dept. of Epidemiology, UAB School of Public Health, UAB Dissertation Defended: June, 2014
2010-2011	Aimee M Merino (PhD; Advisor: Prof. Richard Kaslow) Division of Microbiology, Dept. of Medicine, UAB Dissertation Defended: October, 2011
2010-2011	Jun Li (PhD; Advisor: Prof. Nengjun Yi) Dept. of Biostatistics, UAB School of Public Health, UAB Dissertation Defended: November, 2011
2011-2013	Melonie Walcott (PhD; Advisor: Prof. Pauline E Jolly) Dept. of Epidemiology, UAB School of Public Health

Dissertation Defended: January, 2013

2011-2013 asundep NDEP NTUI (Dr. PH; Advisor: Prof. Pauline E Jolly)
Dept. of Epidemiology, UAB School of Public Health, UAB
Dissertation Defended: March, 2013

2012-2012 Michael A. Froelich (MS; Advisor: Prof. Gary Cutter)
Dept. of Biostatistics, UAB School of Public Health, UAB
Dissertation Defended: July, 2012

2012-2013 Heather Prentice (PhD; Advisor: Prof. Elizaneth Brown)
Dept. of Epidemiology, UAB School of Public Health, UAB
Dissertation Defended: March, 2013

2013-2015 Arvind Tripathi (PhD; Advisor: Profs. Kui Zhang and Xiaogang Su)
Dept. of Biostatistics, UAB School of Public Health, UAB
Dissertation Defended: March, 2015

2013-2015 Shaonin Ji (MS PH; Advisor: Prof. Kui Zhang)
Dept. of Biostatistics, UAB School of Public Health, UAB
Dissertation Defended: NA (left the university)

2014-2014 Yogasudha Veturi (PhD; Advisor: Prof. Gustavo Campos)
Dept. of Biostatistics, UAB School of Public Health, UAB
Dissertation Defended: NA (left the university)

Dissertation Committee, Michigan Technological University (MTU)

2015-2018 Huanhuan Zhu (PhD; Advisor: Prof. Shuanglin Zhang)
Dept. of Mathematical Sciences, MTU
Dissertation Defended: March, 2018

2015-2018 Xinlan Yang (PhD; Advisor: Prof. Qiuying Sha)
Dept. of Mathematical Sciences, MTU
Dissertation Defended: March, 2018

2015-2018 Xinlan Yang (PhD; Advisor: Prof. Qiuying Sha)
Dept. of Mathematical Sciences, MTU
Dissertation Defended: April, 2018

2015-2018 Zhenchuan Wang (PhD; Advisor: Prof. Shuanglin Zhang)
Dept. of Mathematical Sciences, MTU
Dissertation Defended: April, 2018

2015-2016 Hongyi Lin (MS; Advisor: Prof. Noel R. Urban)

	Dept. of Civil and Environmental Engineering, MTU Dissertation Defended: July, 2016
2015-2019	Xueling Li (PhD; Advisor: Prof. Qiuying Sha) Dept. of Civil and Environmental Engineering, MTU Dissertation Defended: April, 2019
2015-2020	Wenping Deng (PhD; Advisor: Prof. Hairong Wei) College of Forest Resources and Environmental Science, MTU Dissertation Defended: April, 2019
2015-2020	Koji Yamashita, (PhD; Advisor: Prof. Chee-Wooi Ten) Dept. of Electrical and Computer Engineering., MTU Dissertation Defended: November, 2020
2016-2019	Yun Liu (PhD; Advisor: Prof. Yenowoo Rho) Dept. of Mathematical Sciences, MTU Dissertation Defended: May, 2019
2016-2020	Zhongyuan Hu (PhD; Advisor: Prof. Shuanglin Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: August, 2020
2016-2021	Cheng Gao (PhD; Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: May, 2021
2017-2017	Mitchell Tahtinen (MS; Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Report Defended: June, 2017
2017-2018	Xiaoqing Gao (MS; Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: December, 2018
2017-2022	Nabhajit Goswami (PhD; Advisor: Prof. Stephen M. Morse) Dept. of Civil & Environmental Engineering, MTU Dissertation Defended: July, 2022
2017-2022	Hongjing Xie (PhD; Advisor: Prof. Qiuying Sha) Dept. of Mathematical Sciences, MTU Dissertation Defended: July 2022
2018-2018	Fadhila Yosof (MS; Advisor: Prof. Qiuying Sha) Dept. of Mathematical Sciences, MTU Dissertation Defended: April, 2018

2018-2018	Sachithra Perera (MS; Advisor: Prof. Qiuying Sha) Dept. of Mathematical Sciences, MTU Dissertation Defended: July, 2018
2018-2021	Joshua Eric Gonzalez, (PhD; Advisor: Prof. William H. Cooke) Dept. of Kinesiology and Integrative Physiology, MTU Dissertation Defended: July, 2021
2018-2022	Shijia Yan (PhD, Advisor: Prof. Shuanglin Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: April, 2022
2018-2022	Steven Stelly (PhD; Advisor: Prof. William H. Cooke) Dept. of Kinesiology and Integrative Physiology, MTU Dissertation Defended: August, 2022
2018-2023	Xing Lin (PhD; Advisor: Prof. Yenowoo Rho) Dept. of Mathematical Sciences, MTU Dissertation Defended: December, 2022
2018-2023	Xuewei Cao (PhD; Advisor: Prof. Qiuying Sha) Dept. of Mathematical Sciences, MTU Dissertation Defended: April, 2023
2018-2023	Meida Wang (PhD; Advisor: Prof. Qiuying Sha) Dept. of Mathematical Sciences, MTU Dissertation Defended: July, 2023
2019-2021	Weibing Li (MS; Advisor, Prof. Xiao Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: July, 2021
2019-2023	Xiaoqing Gao (PhD; Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: July, 2023
2019-2025	Md Mutasim Billah (PhD; Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: July, 2025
2019-2025	Megh Raj Subedj (PhD; Advisor: Prof. Qiuying Sha) Dept. of Mathematical Sciences, MTU Dissertation Defended: July, 2025

2019-2024	Lirong Zhu (PhD; Advisor: Prof. Shuanglin Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: March, 2024
2019-2024	Sunyoung Ahn (PhD; Advisor: Prof. Xiao Zhang) Dept. of Computer Science & Engineering, MTU Dissertation Defended: November, 2024
2020-2021	Tessa Kriz (MS; Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: August, 2021
2020-2021	Junyao Yang (MS; Advisor: Prof. Zhenlin Wang) Dept. of Computer Sciences, MTU Dissertation Defended: October, 2021
2021-2025	Meiling Zhou (PhD; Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: March, 2025
2021-	Shuo Sun (PhD;, Advisor: Prof. Kui Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: TBA
2022-	Reed Anderson (PhD; Advisor: Prof. Yinan Yuan) College of Forest Resources and Environmental Science, MTU Dissertation Defended: TBA
2022-	Md Khairul Islam (PhD; Advisor: Prof. Hairong Wei) Dept. of Computational Science and Engineering (CSE), MTU Dissertation Defended: TBA
2023-2024	Kris Larsen (MS; Advisor: Profs. Qiuying Sha and Weihua Zhou) Dept. of Mathematical Sciences, MTU Dissertation Defended: March, 2024
2023-2024	Vivian Anyanwu (MS; Advisor: Prof. Xiao Zhang) Dept. of Mathematical Sciences, MTU Dissertation Defended: March, 2024
2024-	Oluwatosin Oyeniran (PhD; Advisor: Prof. William H. Cooke) Dept. of Kinesiology and Integrative Physiology, MTU Dissertation Defended: TBA
2025-2025	Kazeem Kareem (PhD; Advisor: Prof. Dai Fan) Dept. of Mathematical Sciences, MTU

Dissertation Defended: April, 2025

2025- Tianxin Zhu (PhD; Advisor: Prof. Weihuo Zhou)
Dept. of Applied Computing, MTU
Dissertation Defended: TBA

Postdoctoral Fellows

Jan 2006 - Oct 2007	Yun Joo Yoo, PhD
Jan 2007 – Aug 2009	Douglas Childers, PhD
June 2010 – Sep 2011	Jihua Wu, PhD

Service Activities (Completed)

Jun 2004 – Aug 2005	Organizer, SSG Monthly Grant Writing Meeting
Jun 2005 – Jun 2007	Alternative Senator of SOPH at UAB Faculty Senate
Jun 2007 – Jun 2009	Alternative Senator of SOPH at UAB Faculty Senate
Feb 29th, 2008	Judge for UAB Graduate Research Day in 2008
May 7th -8th, 2008	Organizer of two-day NIH/NHGRI funded conference "Haplotype analysis of population and pedigree data in association studies"
Feb 16th, 2009	Judge for UAB Postdoctoral Research Day in 2009
Feb 19th, 2009	Organizer of SSG Professional Development Workshop Series "On the Road to Meeting One's Scholarship Goals: How to Be a Mentor"
Feb 25th, 2009	Host on Junior Achievement Job Shadow Day, UAB & JA Job Shadow, Feb 25th, 2009
April, 2009	Member of Program Committee for the 2nd International Conference on Biomedical Engineering and Informatics (BMEI'09), Oct 17-19, 2009, Tianjin, China
Feb 15th, 2010	Judge for UAB Postdoctoral Research Day in 2010
Oct 2010 – Jul 2011	Organizer, SSG Monthly Seminar Series
July 2012 – Aug 2015	Organizer, SSG Monthly Grant Writing Meeting
Aug 2008 – Aug 2015	UAB Quantitative Literacy Committee
July 2010 – Aug 2015	UAB Grievance and Termination Hearing Panel
Sep 2015 – May 2016	Chair for Promotion, Tenure, and Re-appointment Committee in the Department of Mathematical Sciences at MTU
Sep 2016 – May 2017	Chair for Promotion, Tenure, and Re-appointment Committee in the Department of Mathematical Sciences at MTU
Sep 2016 – May 2017	Graduate Program Committee in the Department of Mathematical Sciences at MTU
Feb 28th, 2018	Judge for MTU Graduate Research Day in 2018
Jan 2018 – May 2018	MTU CIS Advisory Group

Sep 2018 – May 2019	Graduate Program Committee in the Department of Mathematical Sciences at MTU
Sep 2019 – May 2020	Graduate Program Committee in the Department of Mathematical Sciences at MTU
Sep 2020 – Nov 2020	Advisory Committee in the Department of Mathematical Sciences at MTU
Nov 2020 – Apr 2021	Faculty Review Promotion Committee at the College of Arts and Sciences at MTU
Sep 2022 – Apr 2023	Chair for Promotion, Tenure, and Re-appointment Committee in the Department of Mathematical Sciences at MTU
Sep 2024 – Apr 2025	Member for Promotion, Tenure, and Re-appointment Committee in the Department of Mathematical Sciences at MTU
Sep 2024 – Apr 2025	Member for Advisory Committee in the Department of Mathematical Sciences at MTU

Service Activities (Current)

Sep 2025 – Apr 2026	Member for Promotion, Tenure, and Re-appointment Committee in the Department of Mathematical Sciences at MTU