

Curriculum Vitae

Kai Wang

Department of Biostatistics, College of Public Health
University of Iowa, Iowa City, IA 52242
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EDUCATION

<u>Institution</u>	<u>Field of Study</u>	<u>Degree Obtained</u>	<u>Degree Date</u>
University of Iowa, Iowa City, Iowa, USA	Statistics	PhD	1999
University of Iowa, Iowa City, Iowa, USA	Economics	MA	1996
Nankai University, Tianjin, China	Econometrics	MA	1989
Lanzhou University, Lanzhou, Gansu, China	Mathematics	BA	1986

PROFESSIONAL AND ACADEMIC POSITIONS

Professor	2013-present	Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
Associate Professor	2007-2013	Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
Associate Professor	2005-2007	Program in Public Health Genetics, College of Public Health, University of Iowa, Iowa City, Iowa
Assistant Professor	2003-2005	Program in Public Health Genetics, College of Public Health, University of Iowa, Iowa City, Iowa
Assistant Professor	1999-2003	Department of Biostatistics Division of Statistical Genetics, University of Iowa, Iowa City, Iowa
Research Assistant Professor	1999	Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, Alabama
Instructor	1989-1992	Department of Mathematics, Nankai University, Tianjin, China

HONORS AND AWARDS

1984	Outstanding Student Award, Lanzhou University,
1999	NSF travel grant for the CBMS Summer Course on Inferences from Genetic Data on Pedigrees, Michigan Technical University
2001	New Investigator Research Award, College of Public Health and College of Medicine, University of Iowa
2002	NSF travel grant for the Workshop on Developments and Challenges in Mixture Models, Bump Hunting and Measurement Error Models, Case Western Reserve University
2002	NSF travel grant for the Frontiers of Statistical Research: A Celebration of the 40th Anniversary of the Department of Statistics at Texas A&M University, Texas A&M University
2003	Finalist in Post-doctoral Neal Young Investigator Award, International Genetic Epidemiology Society Conference, Los Angeles, CA
2005	Mathematical & Physical Sciences Funding Program Award, University of Iowa

- 2005 University of Iowa international travel grant for the joint meeting of the Chinese Society of Probability and Statistics (CSPS) and the Institute of Mathematical Statistics (IMS)
- 2016 Best Paper Awards, 5th Annual Global Healthcare Conference, Singapore. GHC 2016

TEACHING

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
Spring 1996	6K:71 Quantitative Analysis 6K:71	3	25	Instructor	100%
Fall 1999	55:195 Computational Biology: one lecture		15	Guest Lecturer	100%
Fall 1999	63:176 Biostatistical Methods I: one lecture		8	Guest Lecturer	100%
Fall 2000	171:201 Biostatistical Methods I	4	13	Instructor	100%
Spring 2001	171:202 Biostatistical Methods II	4	8	Instructor	100%
Spring 2002	171:274 Computational Methods in Statistical Genetics	3	4	Instructor	100%
Fall 2002	171:274 Computational Methods in Statistical Genetics	3	2	Instructor	100%
Spring 2003	171:161 Introduction to Biostatistics	3	32	Instructor	100%
Fall 2003	171:272 Statistical Genetics II: Continuous Traits	3	5	Instructor	100%
Fall 2004	185:278 Computing Algorithms in Statistical Genetics	3	2	Instructor	100%
Fall 2005	185:272 Population and Quantitative Genetics	3	4	Instructor	100%
Fall 2006	185:278 Computing Algorithms in Statistical Genetics	3	3	Instructor	100%
Fall 2006	185:280 Preceptorship in Statistical Genetics	2	1	Instructor	100%
Spring 2007	171:162 Design & Analysis of Biomedical Studies	3	40	Instructor	100%
Spring 2007	185:295 Research in Statistical Genetics	2	1	Instructor	100%
Spring 2007	185:300 Dissertation in Statistical Genetics	3	1	Instructor	100%
Fall 2007	171:280 Preceptorship in Biostatistics	3	1	Instructor	100%
Fall 2007	185:272 Population and Quantitative Genetics	3	2	Instructor	100%
Fall 2007	185:290 Dissertation in Statistical Genetics	3	1	Instructor	100%
Spring 2008	185:278 Computing Algorithms in Statistical Genetics	3	2	Instructor	100%
Spring 2008	185:280 Preceptorship in Statistical Genetics	3	1	Instructor	100%
Spring 2008	185:290 Dissertation in Statistical Genetics	3	1	Instructor	100%
Fall 2008	171:241 Applied Categorical Data Analysis	3	23	Instructor	100%

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
Fall 2008	171:280 Preceptorship in Biostatistics	3	2	Instructor	100%
Fall 2008	185:290 Dissertation in Statistical Genetics	3	2	Instructor	100%
Spring 2009	171:203 Biostatistical Methods in Categorical Data	3	10	Instructor	100%
Spring 2009	171:280 Preceptorship in Biostatistics	3	1	Instructor	100%
Spring 2009	185:290 Dissertation in Statistical Genetics	3	2	Instructor	100%
Fall 2009	171:241 Applied Categorical Data Analysis	3	36	Instructor	100%
Fall 2009	185:290 Dissertation in Statistical Genetics	3	2	Instructor	100%
Spring 2010	127:191 Human Molecular Genetics: Two lectures		25	Guest Lecturer	100%
Spring 2010	171:280 Preceptorship in Biostatistics	3	2	Instructor	100%
Spring 2010	171:290 Advanced Biostatistics Seminar: Statistical Genetics	3	11	Instructor	100%
Spring 2010	185:290 Dissertation in Statistical Genetics	3	2	Instructor	100%
Fall 2010	171:241 Applied Categorical Data Analysis	3	14	Instructor	100%
Fall 2010	171:281 Independent Study in Biostatistics	3	1	Instructor	100%
Fall 2010	185:300 Dissertation in Statistical Genetics	3	1	Instructor	100%
Spring 2011	171:203 Biostatistical Methods in Categorical Data	3	13	Instructor	100%
Spring 2011	171:281 Independent Study in Biostatistics	3	1	Instructor	100%
Spring 2011	185:300 Dissertation in Statistical Genetics	3	1	Instructor	100%
Summer 2011	Iowa Summer Institute in Biostatistics: one lecture	3	11	Instructor	100%
Summer 2011	171:281 Independent Study in Biostatistics	3	2	Instructor	100%
Fall 2011	171:164 Research Data Management	3	20	Instructor	100%
Fall 2011	171:281 Independent Study in Biostatistics	3	1	Instructor	100%
Fall 2011	171:300 Thesis/Dissertation	3	1	Instructor	100%
Fall 2011	185:300 Dissertation in Statistical Genetics	3	1	Instructor	100%
Spring 2012	171:161 Introduction to Biostatistics	3	78	Instructor	100%
Spring 2012	171:281 Independent Study in Biostatistics	3	1	Instructor	100%
Spring 2012	171:300 Thesis/Dissertation	3	1	Instructor	100%

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
Spring 2012	185:300 Dissertation in Statistical Genetics	3	1	Instructor	100%
Summer 2012	Iowa Summer Institute in Biostatistics		15	Instructor	100%
Summer 2012	171:300 Thesis/Dissertation	2	1	Instructor	100%
Fall 2012	171:290 Advanced Biostatistics Seminar: Statistical Genetics	3	15	Instructor	60%
Fall 2012	171:300 Thesis/Dissertation	3	2	Instructor	100%
Fall 2012	185:300 Dissertation in Statistical Genetics		1	Instructor	100%
Spring 2013	171:203 Biostat Methods in Categorical Data	3	21	Instructor	100%
Spring 2013	171:295:050 Research in Biostatistics	3	1	Instructor	100%
Spring 2013	171:300:050 Thesis/Dissertation	3	1	Instructor	100%
Fall 2013	171:241 Applied Categorical Data Analysis	3	18	Instructor	100%
Fall 2013	200:299:050 Research for Dissertation	3	1	Instructor	100%
Spring 2014	BIOS:5730:0001 Biostat Methods in Categorical Data	3	14	Instructor	100%
Fall 2014	171:300 Thesis/Dissertation	3	1	Instructor	100%
Fall 2014	BIOS:6110 Applied Categorical Data Analysis	3	23	Instructor	100%
Spring 2015	BIOS:5730:0001 Biostatistical Methods Categorical Data	3	6	Instructor	100%
Spring 2015	BIOS:7900:0050 Thesis/Dissertation			Instructor	100%
Fall 2015	BIOS:6110:0001 Applied Categorical Data Analysis	3	14	Instructor	100%
Spring 2016	BIOS:5730:0001 Biostatistical Methods Categorical Data	3	11	Instructor	100%
Spring 2016	BIOS:7500:0050 Preceptorship in Biostatistics		1	Instructor	100%
Fall 2016	BIOS:6110:1 Applied Categorical Data Analysis		15	Instructor	100%
Spring 2017	BIOS:6210:0001 Applied Survival Analysis		15	Instructor	100%

STUDENTS MENTORING (*Thesis Committee*)

<u>Name</u>	<u>Field or Major</u>	<u>Degree Objective, Year</u>	<u>Role</u>
Ludington, Elizabeth	Biostatistics	PhD 2000	Member
Jiang, Yanming	Statistics	PhD 2001	Member
Wang, Deli	Program in Public Health Genetics	PhD 2004	Member
Yang, Xinqun	Program in Public Health Genetics	PhD 2005	Member

Xie, Xianjin	Health Genetics Biostatistics	PhD 2005	Member
Mendoza, Maria	Biostatistics	PhD 2006	Member
Tan, Huaming	Biostatistics	PhD 2007	Member
Breheny, Patrick	Biostatistics	PhD 2009	Member
Abbott, Diana	Program in Public Health Genetics	PhD 2009	Co-Advisor
Schindler, Emily	Pathology	PhD 2010	Member
Martinez, Andres	Environmental Engineering	PhD 2010	Member
He, Bing	Interdisciplinary Graduate Program in Genetics	PhD 2015	Member
Mikulski, Marek	Epidemiology	PhD 2011	Member
Huang, Yungui	Program in Public Health Genetics	PhD 2011	Member
Liu, Jin	Statistics	PhD 2011	Co-Advisor
Foster, Eric	Biostatistics	PhD 2012	Member
Methaneethorn, Janthima		PhD 2013	Member
Mawanda, Francis	Epidemiology	PhD 2015	Member
Butler-Dawson, Jaime	Occupational and Environmental Health	PhD 2015	Member
Brett, Benjamin	Interdisciplinary Graduate Program in Genetics	PhD 2014	Member
Badtke, Laura	Interdisciplinary Graduate Program in Human Toxicology	PhD 2014	Member
Lu, Wenjing	Biostatistics	PhD 2015	Member
Zhang, Tianyi	Applied Mathematical and Computational Sciences	PhD 2015	Member
Cao, Yanyan	Epidemiology	PhD 2015	Member
Yu, Lixi	Biostatistics	PhD 2016	Member
Wu, Hongqian	Biostatistics	PhD 2016	Member
Roh, Taehyun	Interdisciplinary Graduate Program in Human Toxicology	PhD 2016	Member
Enayah, Sabah Hassain Enayah	Interdisciplinary Graduate Program in Human Toxicology	PhD 2016	Member
Hu, Nan	Applied Mathematical and Computational Sciences	PhD 2016	Member
Bao, Minli	Applied	PhD 2017	Advisor

	Mathematical and Computational Sciences		
Dogan, Meeshanthini	Bioinformatics	PhD 2017	Member
Gao, Long	Interdisciplinary Graduate Program in Genetics	PhD 2017	Member
Rudolphi, Josie	Interdisciplinary Graduate Program in Human Toxicology	PhD 2017	Member
Mendy, Angelico	Occupational and Environmental Health	PhD In Process	Member
Giacalone, Joseph	Interdisciplinary Graduate Program in Genetics	PhD In Process	Member
Okeke, Barbara	Interdisciplinary Graduate Program in Human Toxicology	PhD In Process	Member

SCHOLARSHIP

Peer-Reviewed Publications

1. **Wang K**, Vieland V, Huang J (1999). A Bayesian approach to replication of linkage findings. *Genetic Epidemiology*, 17 (Supplement 1):S749-S754. PMID: 10597525
2. Collaborative Linkage Study of Autism: , Barret S, Beck J, Berniew R, Bisson E, Braun T, Cassavant T, Childress D, Folstein SE, Garcia M, Gardiner MB, Gilman S, Haines JL, Hopkins K, Landa R, Meyer NH, Mullane JA, Nishimura DY, Palmer P, Piven J, Prudy J, Santangelo SL, Searby C, Sheffield VC, Singleton J, Slager S, Struchen T, Svenson S, Vieland VJ, **Wang K**, Winklosky B (1999). An autosomal genomic screen for autism. *American Journal of Medical Genetics (Neuropsychiatric Genetics)*, 88 (6):609-615. PMID: 11811142
3. **Wang K**, Huang J, Vieland VJ (2000). The consistency of the posterior probability of linkage. *Annals of Human Genetics*, 64 (Part 6):533-553. PMID: 11281217
4. **Wang K**, Huang J, Logue M, Vieland VJ (2001). Combined multipoint analysis of multiple asthma data sets based on the posterior probability of linkage. *Genetic Epidemiology*, 21 (Supplement 1):S73-S78. PMID: 11793769
5. Bradford Y, Haines J, Hutcheson H, Gardiner M, Braun T, Sheffield V, Cassavant T, Huang W, **Wang K**, Vieland V, Folstein S, Santangelo S, Piven J (2001). Incorporating language phenotypes strengthens evidence of linkage to autism. *American Journal of Medical Genetics (Neuropsychiatric Genetics)*, 105 (6):539-547. PMID: 11496372
6. Huang J, Vieland VJ, **Wang K** (2001). Nonparametric estimation of marginal distributions under bivariate truncation with application to testing for age-of-onset anticipation. *Statistica Sinica*, 11: 1047-1068.
7. Vieland VJ, **Wang K**, Huang J (2001). Power to detect linkage based on multiple sets of data in the presence of locus heterogeneity: Comparative evaluation of model-based linkage methods for affected sib pair data. *Human Heredity*, 51 (4):199-208. PMID: 11287741

8. **Wang K**, Huang J (2002). A score-statistic approach for the mapping of quantitative-trait loci with sibships of arbitrary size. *American Journal of Human Genetics*, 70 (2):412-424. PMC: PMC384916, PMID: 11791211
9. **Wang K** (2002). Efficient score statistics for mapping quantitative trait loci with extended pedigrees. *Human Heredity*, 54 (2):57-68. PMID: 12566738
10. **Wang K**, Huang J (2002). Score test for mapping quantitative-trait loci with sibships of arbitrary size when the dominance effect is not negligible. *Genetic Epidemiology*, 23 (4):398-412. PMID: 12432506
11. Morcuende JA, Minhas R, Dolan L, Stevens J, Beck J, **Wang K**, Weinstein SL, Sheffield V (2003). Allelic variants of human melatonin 1-A receptor (hMel-1A) in patients with familial adolescent idiopathic scoliosis. *Spine*, 28 (17):2025-2029. PMID: 12973153
12. Zhang X, **Wang K** (2003). Bivariate linkage analysis of cholesterol and triglyceride levels in Framingham heart study. *BMC Genetics*, 4 (Supplement 1):S62. PMC: PMC1866500, PMID: 14975130
13. Yang X, **Wang K**, Huang J, Vieland VJ (2003). Genome-wide linkage analysis of blood pressure under locus heterogeneity. *BMC Genetics*, 4 (Supplement 1):S78. PMC: PMC1866517, PMID: 14975146
14. **Wang K**, Peng Y (2003). Linkage analysis of systolic blood pressure: A score statistic and computer implementation. *BMC Genetics*, 4 (Supplement 1):S77. PMC: PMC1866516, PMID: 14975145
15. **Wang K** (2003). Mapping quantitative trait loci using multiple phenotypes in general pedigrees. *Human Heredity*, 55 (1):1-15. PMID: 12890921
16. **Wang K** (2003). Score tests for epistasis models on quantitative traits using general pedigree data. *Genetic Epidemiology*, 25 (4):314-326. PMID: 14639701
17. **Wang K** (2004). A note on asymptotic properties of affected-sib-pair linkage tests. *Annals of Human Genetics*, 68 (Part 4):367-375. PMID: 15225162
18. **Wang K**, Sheffield VC (2005). A constrained-likelihood approach to marker-trait association studies. *American Journal of Human Genetics*, 77 (5):768-780. PMC: PMC1271386, PMID: 16252237
19. **Wang K** (2005). A likelihood approach for quantitative-trait-loci mapping with selected pedigrees. *Biometrics*, 61 (2):465-473. PMID: 16011693
20. Sander MD, Abbasi D, Ferguson AL, Steyers CM, **Wang K**, Morcuende JA (2005). The prevalence of hereditary neuropathy with liability to pressure palsies in patients with multiple surgically treated entrapment neuropathies. *Journal of Hand Surgery-American*, 30A (6):1236-1241. PMID: 16344182
21. **Wang K**, Peng Y (2006). Quantitative-trait-locus mapping in the presence of locus heterogeneity. *Annals of Human Genetics*, 70 (Part 6):882-892. PMID: 17044863
22. Bishop JR, **Wang K**, Moline J, Ellingrod VL (2007). Association analysis of the metabotropic glutamate receptor type 3 gene (GRM3) with schizophrenia. *Psychiatric Genetics*, 17 (6):358. PMID: 18075480
23. Fingert JH, Alward WM, Kwon yH, **Wang K**, Streb LM, Sheffield VC, Stone EM (2007). LOXL1 mutations are associated with exfoliation syndrome in patients from the Midwestern United States. *American Journal of Ophthalmology*, 144(6):974-975. PMID: 18036875
24. **Wang K**, Abbott D (2008). A principal components regression approach to multilocus genetic association studies. *Genetic Epidemiology*, 32 (2):108-118. PMID: 17849491
25. **Wang K** (2008). An analytic study of the power of popular quantitative-trait-locus mapping methods. *Behavior Genetics*, 38 (5):554-559. PMID: 18766435
26. Ho BC, Epping E, **Wang K**, Andreasen NC, Librant A, Wassink TH (2008). Basic helix-loop-helix transcription factor NEUROG1 and schizophrenia: Effects on illness susceptibility, MRI brain morphometry and cognitive abilities. *Schizophrenia Research*, 106 (2-3):192-199. PMC: PMC2597152, PMID: 18799289
27. **Wang K** (2008). Genetic association tests in the presence of epistasis or gene-environment interaction. *Genetic Epidemiology*, 32 (7):606-614. PMID: 18435472

28. Maddox C, Wang BX, Kirby PA, **Wang K**, Ludewig (2008). Mutagenicity of 3-methylcholanthrene, PCB3, and 4-OH-PCB3 in the lung of transgenic BigBlue® rats. *Environmental Toxicology and Pharmacology*, 25 (2):260-266. PMC: PMC2346436, PMID: 18438460
29. Zhang Y, Xiao X, **Wang K** (2009). Accommodating population stratification in case-control association analysis: a new test and its application to genome-wide study on rheumatoid arthritis. *BMC Proceedings*, 3 (Suppl 7):S111. PMC: PMC2795883, PMID: 20017976
30. Xiao X, Zhang Y, **Wang K** (2009). Association of KCNB1 to rheumatoid arthritis via interaction with HLA-DRB1. *BMC Proceedings*, 3 (Suppl 7):S134. PMC: PMC2795908, PMID: 20018001
31. **Wang K** (2009). Testing for genetic association in the presence of population stratification in genome-wide association studies. *Genetic Epidemiology*, 33 (7):637-645. PMID: 19235185
32. Jacobus JA, Wang B, Maddox C, Esch H, Lehmann L, Robertson LW, **Wang K**, Kirby P, Ludewig G (2010). 3-Methylcholanthrene (3-MC) and 4-Chlorobiphenyl (PCB3) genotoxicity is gender-related in Fischer 344 transgenic rats. *Environment International*, 36 (8):970-979. PMC: PMC2949545, PMID: 20739065
33. Fingert JH, Alward WL, **Wang K**, Yorio T, Clark AF (2010). Assessment of SNPs associated with the human glucocorticoid receptor in primary open-angle glaucoma and steroid responders. *Molecular Vision*, 16: 596-601. PMC: PMC2848919, PMID: 20376328
34. Hu D, Lehmler H, Martinez A, **Wang K**, Hornbuckle KC (2010). Atmospheric PCB congeners across Chicago. *Atmospheric Environment*, 44 (12):1550-1557. PMC: PMC3171135, PMID: 21918637
35. Schindler EI, Nylen EL, Ko AC, Affatigato LM, Heggen AC, **Wang K**, Sheffield VC, Stone EM (2010). Deducing the pathogenic contribution of recessive ABCA4 alleles in an outbred population. *Human Molecular Genetics*, 19 (19):3693-3701. PMC: PMC2935854, PMID: 20647261
36. Sun X, Sui H, Fisher JT, Yan Z, Lui X, Cho HJ, Joo NS, Zhang Y, Zhou W, Lei-Butters DC, Yi Y, Griffin MA, Naumann P, Luo M, Ascher J, **Wang K**, Wine JJ, Meyerholz DK, Engelhardt JF (2010). Disease phenotype of a ferret CFTR-knockout model of cystic fibrosis. *The Journal of Clinical Investigation*, 120 (9):3149-3160. PMC: PMC2929732, PMID: 20739752
37. Shyy W, **Wang K**, Sheffield VC, Morcuende JA (2010). Evaluation of embryonic and perinatal myosin gene mutations and the etiology of congenital idiopathic clubfoot. *Journal of Pediatric Orthopaedics*, 30 (3):231-234. PMC: PMC2913130, PMID: 20357587
38. Shyy W, **Wang K**, Gurnett CA, Dobbs MB, Smith NH, Wise C, Sheffield VC, Morcuende JA (2010). Evaluation of GPR50, hMel-1B, and ROR-alpha melatonin-related receptors and the etiology of adolescent idiopathic scoliosis. *Journal of Pediatric Orthopaedics*, 30 (6):539-543. PMC: PMC2928583, PMID: 20733416
39. Martinez A, **Wang K**, Hornbuckle KC (2010). Fate of PCB congeners in an industrial harbor of Lake Michigan. *Environmental Science & Technology*, 44 (8):2803-2808. PMC: PMC3257175, PMID: 20131898
40. Lively GD, Jiang B, Hedberg-Buenz A, Chang B, Peterson GE, **Wang K**, Kuehn MH, Anderson MG (2010). Genetic dependence of central corneal thickness among inbred strains of mice. *Investigative Ophthalmology & Visual Science*, 51 (1):160-171. PMC: PMC2869057, PMID: 19710407
41. Xie W, **Wang K**, Robertson LW, Ludewig G (2010). Investigation of mechanism(s) of DNA damage induced by 4-monochlorobiphenyl (PCB3) metabolites. *Environment International*, 36 (8):950-961. PMC: PMC2888624, PMID: 20129669
42. Xie W, Ludewig G, **Wang K**, Lehmler H (2010). Model and cell membrane partitioning of perfluorooctanesulfonate is independent of the lipid chain length. *Colloids and Surfaces, B, Biointerfaces*, 76 (1):128-136. PMC: PMC2818369, PMID: 19932010
43. Martinez A, Norstrom K, **Wang K**, Hornbuckle KC (2010). Polychlorinated biphenyls in the surficial sediment of Indiana Harbor and Ship Canal, Lake Michigan. *Environment International*, 36 (8):849-854. PMC: PMC2888873, PMID: 19268364
44. Lively GD, Koehn D, Hedberg-Buenz A, **Wang K**, Anderson M (2010). Quantitative trait loci associated with murine central corneal thickness. *Physiological Genomics*, 42 (2):281-286. PMC: PMC3032283, PMID: 20423963

45. Kuehn MH, **Wang K**, Roos B, Stone EM, Kwon YH, Alward WL, Mullins RF, Fingert JH (2011). Chromosome 7q31 POAG locus: ocular expression of caveolins and lack of association with POAG in a US cohort. *Molecular Vision*, 17: 430-435. PMC: PMC3038208, PMID: 21321670
46. Lai IK, Chai Y, Simmons D, Watson WH, Tan R, Haschek WM, **Wang K**, Wang B, Ludewig G, Robertson LW (2011). Dietary selenium as a modulator of PCB 126-induced hepatotoxicity in male Sprague Dawley rats. *Toxicological Sciences*, 124 (1):202-214. PMC: PMC3196656, PMID: 21865291
47. Mullins RF, Dewald AD, Streb LM, **Wang K**, Kuehn MH, Stone EM (2011). Elevated membrane attack complex in human choroid with high risk complement factor H genotypes. *Experimental Eye Research*, 93 (4):565-567. PMC: PMC3206185, PMID: 21729696
48. Mullins RF, Skeie JM, Folk JC, Solivan-Timpe FM, Oetting TA, Huang J, **Wang K**, Stone EM, Fingert JH (2011). Evaluation of variants in the selectin genes in age-related macular degeneration. *BMC Medical Genetics*, 12: 58. PMC: PMC3096910, PMID: 21521525
49. Fabbro S, Kahr WH, Hinckley J, **Wang K**, Moseley J, Ryu GY, Nixon B, White JG, Bair T, Schutte B, Paola JD (2011). Homozygosity mapping with SNP arrays confirms 3p21 as a recessive locus for gray platelet syndrome and narrows the interval significantly. *Blood*, 117 (12):3430-3434. PMC: PMC3069679, PMID: 21263149
50. Kahr WH, Hinckley J, Li L, Schwertz H, Christensen H, Rowley JW, Pluthero FG, Urban D, Fabbro S, Nixon B, Gadzinski R, Storck M, **Wang K**, Ryu G-, Jobe SM, Schutte BC, Moseley J, Loughran NB, Parkinson J, Weyrich AS, Di Paola J (2011). Mutations in NBEAL2, encoding a BEACH protein, cause gray platelet syndrome. *Nature Genetics*, 43: 738-740. PMID: 21765413
51. Liu J, **Wang K**, Ma S, Huang J (2011). Regularized regression method for genome-wide association studies. *BMC Proceedings*, 5 (Supplement 9):S67. PMC: PMC3287906, PMID: 22373491
52. Mikulski M, Hartley P, Sprince N, Sanderson W, Lourens S, Worden N, **Wang K**, Fuortes L (2011). Risk and significance of chest radiograph and pulmonary function abnormalities in an elderly cohort of former nuclear weapons workers. *Occupational and Environmental Medicine*, 53 (9):1046-1053. PMID: 21866051
53. Wang B, Robertson LW, **Wang K**, Ludewig G (2011). Species difference in the regulation of cytochrome P450 2S1: Lack of induction in rats by the aryl hydrocarbon receptor agonist PCB126. *Xenobiotica*, 41 (12):1031-1043. PMC: PMC3564674, PMID: 21970748
54. **Wang K**, Huang J (2011). Treating phenotype as given: A simple resampling method for genome-wide association studies. *BMC Proceedings*, 5 (Supplement 9):S60. PMC: PMC3287899, PMID: 22373312
55. Olivier AK, Yi Y, Sun X, Sui H, Liang B, Hu S, Xie W, Fisher JT, Keiser NW, Lei D, Zhou W, Yan Z, Li G, Evans TI, Meyerholz DK, **Wang K**, Stewart ZA, Norris AW, Engelhardt JF (2012). Abnormal endocrine pancreas function at birth in cystic fibrosis ferrets. *The Journal of Clinical Investigation*, 122(10):3755-3768. PMC: PMC3534166, PMID: 22996690
56. Fingert JH, Roos BR, Solivan-Timpe F, Miller K, Oetting TA, **Wang K**, Kwan YH, Scheetz TE, Stone EM, Alward WL (2012). Analysis of ASB10 variants in open angle glaucoma. *Human Molecular Genetics*, 21(20):4543-4548. PMC: PMC3459468, PMID: 22798626
57. Zhang Y, Meyer N, **Wang K**, Nishimura C, Frees K, Jones M, Katz L, Sethi S, Smith R (2012). Causes of alternative pathway dysregulation in dense deposit disease. *Clinical Journal of the American Society of Nephrology*, 7(2):265-274. PMC: PMC3280037, PMID: 22223606
58. Fingert JH, Burden JH, **Wang K**, Kwon YH, Alward WL, Anderson MG (2012). Circumferential iris transillumination defects in exfoliation syndrome. *Journal of Glaucoma*, 22(7):555-558. PMC: PMC3502723, PMID: 22525123
59. **Wang K**, Fingert J (2012). Statistical tests for detecting rare variants using variance-stabilizing transformations. *Annals of Human Genetics*, 76 (5):402-409. PMC: PMC3418475, PMID: 22724536
60. **Wang K** (2012). Statistical tests of genetic association for case-control study designs. *Biostatistics*, 13 (4):724-733. PMID: 22389176

61. Scheetz T, Fingert J, **Wang K**, Kuehn M, Knudtson K, AlWard W, Boldt H, Russell S, Folk J, Casavant T, Braun T, Clark A, Stone E, Sheffield V (2013). A genome-wide association study for primary open angle glaucoma and macular degeneration reveals novel loci. *PLoS ONE*, 8(3):e58657. PMC: PMC3594156, PMID: 23536807
62. Liu J, **Wang K**, Ma S, Huang J (2013). Accounting for linkage disequilibrium in genome-wide association studies: A penalized regression method. *Statistics and Its Interface*, 6:99-115.
63. **Wang K**, Hu X, Peng P (2013). An analytical comparison of the principal component method and the mixed effects model for association studies in the presence of cryptic relatedness and population stratification. *Human Heredity*, 76(1):1-9. PMID: 23921716
64. Fisher JT, Tyler SR, Zhang Y, Lee BJ, Liu X, Sun X, Sui H, Liang B, Luo M, Xie W, Yi Y, Zhou W, Song Y, Keiser N, **Wang K**, de Jonge HR, Engelhardt J (2013). Bioelectric characterization of epithelia from neonatal CFTR knockout ferrets. *American Journal of Respiratory Cell and Molecular Biology*, 49(5):837-844. PMC: PMC3931095, PMID: 23782101
65. Lai I, Klaren W, Li M, Wels B, Simmons D, Olivier A, Haschek-Hock W, **Wang K**, Ludewig G, Robertson LW (2013). Does dietary copper supplementation enhance or diminish PCB126 toxicity in rodent liver? *Chemical Research in Toxicology*, 26 (5):634-644. PMC: PMC3660509, PMID: 23527585
66. Hou L, **Wang K**, Bartlett C (2013). Evaluation of a Bayesian model-integration-based method for censored data. *Human Heredity*, 74 (1):1-11. PMC: PMC3571622, PMID: 23018141
67. Gonsalez-Alegre P, Buffard V, **Wang K**, Henien S, Morcuende JA (2013). Exploring the link between dystonia genes and idiopathic scoliosis. *Journal of Pediatric Orthopaedics*, 33(6):e65-e66. PMID: 23812140
68. Liu J, Huang J, Ma S, **Wang K** (2013). Incorporating group correlations in genome-wide association studies using smoothed group lasso. *Biostatistics*, 6:99-115. PMC: PMC3590928, PMID: 22988281
69. Iwabuchi S, Koh J, **Wang K**, Ho KW, Harata NC (2013). Minimal change in the cytoplasmic calcium dynamics in striatal GABAergic neurons of a DYT1 dystonia knock-in mouse model. *Plos ONE*, 8(11):e80793. PMC: PMC3834333, PMID: 24260480
70. Marek R, Thome PS, **Wang K**, DeWall J, Hornbuckle K (2013). PCBs and OH-PCBs in Serum from Children and Mothers in Urban and Rural U.S. Communities. *Environmental Science & Technology*, 47(7):3353–3361. PMC: PMC3645264, PMID: 23452180
71. Hinckley J, Abbott D, Burns TL, Heiman M, Shapiro A, **Wang K**, Di Paola J (2013). Quantitative trait locus linkage analysis in a large Amish pedigree identifies novel candidate loci for erythrocyte traits. *Molecular Genetics & Genomic Medicine*, 1(2):131-141. PMC: PMC3775389, PMID: 24058921
72. Seo S, Mullins RF, Dumitrescu AV, Bhattarai S, Gratie D, **Wang K**, Stone EM, Sheffield VC (2013). Subretinal gene therapy of mice with Bardet-Biedl Syndrome type 1. *Investigative Ophthalmology & Visual Science*, 54(9):6118-6132. PMC: PMC3771708, PMID: 23900607
73. Bu F, Mega T, Meyer NC, **Wang K**, Thomas C, Nester C, Smith R (2014). Genetic analysis of the complement and coagulation pathways in atypical hemolytic uremic syndrome. *Journal of the American Society of Nephrology*, 25(1):55-64. PMC: PMC3871781, PMID: 24029428
74. Sohn EH, Flamme-Wiese MJ, Whitmore SS, **Wang K**, Tucker BA, Mullins RF (2014). Loss of CD34 expression in aging human choriocapillaris endothelial cells. *Plos ONE*, 9(1):e86538. PMC: PMC3897719, PMID: 24466138
75. Brownstein CA, Beggs AH, Homer N, Merriman B, Yu TW, Flannery KC, DeChene ET, Towne MC, Savage SK, Price EN, Holm IA, Luquette LJ, Lyon E, Majzoub J, Neupert P, McCallie, Jr D, Szolovits P, Willard HF, Mendelsohn NJ, Temme R, Finkel RS, Yum SW, Medne L, Sunyaev SR, Adzhubey I, Cassa CA, de Bakker PI, Duzkale H, Dworzynski P, Fairbrother W, Francioli L, Funke BH, Giovanni MA, Handsaker RE, Lage K, Lebo MS, Lek M, Leshchiner I, MacArthur DG, McLaughlin HM, Murray MF, Pers TH, Polak PP, Raychaudhuri S, Rehm HL, Soemedi R, Stitzel NO, Vestrecka S, Supper J, Gugenmus C, Klocke B, Hahn A, Schubach M, Menzel M, Biskup S, Freisinger P, Deng M, Braun M, Perner S, Smith RJ, Andorf JL, Huang J, Ryckman K, Sheffield VC, Stone EM, Bair T, Black-Ziegelbein EA, Braun TA, Darbro B, DeLuca AP, Kolbe DL, Scheetz TE, Shearer AE,

Sompallae R, **Wang K**, Bassuk AG, Edens E, Mathews K, Moore SA, Shchelochkov OA, Trapane P, Bossler A, Campbell CA, Heusel JW, Kwitek A, Maga T, Panzer K, Wassink T, Van Daele D, Azaiez H, Booth K, Meyer N, Segal MM, Williams MS, Tromp G, White P, Corsmeier D, Fitzgerald-Butt S, Herman G, Lamb-Thrush D, McBride KL, Newsom D, Pierson CR, Rakowsky AT, Maver A, Lovrečić L, Palandačić A, Peterlin B, Torkamani A, Wedell A, Huss M, Alexeyenko A, Lindvall JM, Magnusson M, Nilsson D, Stranneheim H, Taylan F, Gilissen C, Hoischen A, van Bon B, Yntema H, Nelen M, Zhang W, Sager J, Zhang L, Blair K, Kural D, Cariaso M, Lennon GG, Javed A, Agrawal S, Ng PC, Sandhu KS, Krishna S, Veeramachaneni V, Isakov O, Halperin E, Friedman E, Shomron N, Glusman G, Roach JC, Caballero J, Cox HC, Mauldin D, Ament SA, Rowen L, Richards DR, San Lucas FA, Gonzalez-Garay ML, Caskey CT, Bai Y, Huang Y, Fang F, Zhang Y, Wang Z, Barrera J, Garcia-Lobo JM, González-Lamuño D, Llorca J, Rodriguez MC, Varela I, Reese MG, De La Vega FM, Kiruluta E, Cargill M, Hart RK, Sorenson JM, Lyon GJ, Stevenson DA, Bray BE, Moore BM, Eilbeck K, Yandell M, Zhao H, Hou L, Chen X, Yan X, Chen M, Li C, Yang C, Gunel M, Li P, Kong Y, Alexander AC, Albertyn ZI, Boycott KM, Bulman DE, Gordon PM, Innes AM, Knoppers BM, Majewski J, Marshall CR, Parboosingh JS, Sawyer SL, Samuels ME, Schwartzentruber J, Kohane IS, Margulies DM (2014). An international effort towards developing standards for best practices in analysis, interpretation and reporting of clinical genome sequencing results in the CLARITY Challenge. *Genome Biology*, 15(3):R53. PMC: PMC4073084, PMID: 24667040

76. **Wang K** (2014). Testing genetic association by regressing genotype over multiple phenotypes. *PLoS ONE*, 9(9):e106918. PMC: PMC4164437, PMID: 25221983
77. Gonzalez-Alegre P, Di Paola J, **Wang K**, Fabbro S, Yu HC, Shaikh TH, Darbro BW, Bassuk AG (2014). Evaluating familial essential tremor with novel genetic approaches: Is it a genotyping or phenotyping issue? *Tremor and other Hyperkinetic Movements (New York, N.Y.)*, 4:258. PMC: PMC4219111, PMID: 25374765
78. Mullins RF, Schoo DP, Sohn EH, Flamme-Wiese MJ, Workamelahu G, Johnston RM, **Wang K**, Tucker BA, Stone EM (2014). The membrane attack complex in aging human choriocapillaris: relationship to macular degeneration and choroidal thinning. *The American Journal of Pathology*, 184(11):3142-53. PMC: PMC4215023, PMID: 25204844
79. Stunkel M, Bhattarai S, Kemerley A, Stone EM, **Wang K**, Mullins RF, Drack AV (2015). Vitritis in pediatric genetic retinal disorders. *Ophthalmology*, 122(1):192-9. PMC: PMC4277925, PMID: 25217415
80. Sohn EH, **Wang K**, Thompson S, Riker MJ, Hoffmann JM, Stone EM, Mullins RF (2015). Comparison of drusen and modifying genes in autosomal dominant radial drusen and age-related macular degeneration. *Retina (Philadelphia, Pa.)*, 35(1):48-57. PMID: 25077532
81. Philibert R, Hollenbeck N, Andersen E, Osborn T, Gerrard M, Gibbons FX, **Wang K** (2015). A quantitative epigenetic approach for the assessment of cigarette consumption. *Frontiers in Psychology*, 6:656. PMC: PMC4451580, PMID: 26082730
82. Rohlman DS, Ismail AA, Rasoul GA, Bonner MR, Hendy O, Mara K, **Wang K**, Olson JR (2016). A 10-month prospective study of organophosphorus pesticide exposure and neurobehavioral performance among adolescents in Egypt. *Cortex; a journal devoted to the study of the nervous system and behavior*, 74:383-395. PMC: PMC4786370, PMID: 26687929
83. Wang B, Klaren WD, Wels BR, Simmons DL, Olivier AK, **Wang K**, Robertson LW, Ludewig G (2016). Dietary manganese modulates PCB126 toxicity, metal status, and MnSOD in the rat. *Toxicological Sciences : an official journal of the Society of Toxicology*, 150(1):15-26. PMC: PMC5009614, PMID: 26660635
84. Huang J, **Wang K**, Wei P, Liu X, Liu X, Tan K, Boerwinkle E, Potash JB, Han S (2016). FLAGS: A Flexible and Adaptive Association Test for Gene Sets Using Summary Statistics. *Genetics*, 202(3):919-929. PMC: PMC4788129, PMID: 26773050
85. Koh WX, Hornbuckle KC, Marek RF, **Wang K**, Thorne PS (2016). Hydroxylated polychlorinated biphenyls in human sera from adolescents and their mothers living in two U.S. Midwestern communities. *Chemosphere*, 147:389-395. PMC: PMC4747419, PMID: 26774304

86. Ulland TK, Jain N, Clay GC, Hornick EE, Sadler JJ, Mills KA, Janowski AM, Volk AP, **Wang K**, Legge KL, Gakhar L, Bourdi M, Ferguson PJ, Wilson ME, Cassel SL, Sutterwala FS, (2016). Nlrp12 mutation in C57BL/6J mice results in a substrain-specific defect in neutrophil recruitment. *Nature Communications*, 7:13180.
87. Philibert R, Hollenbeck N, Andersen E, McElroy S, Wilson S, Vercande K, Beach S, Osborn T, Gerrard M, Gibbons R, **Wang K** (2016). Reversion of AHRR demethylation is a quantitative biomarker of smoking cessation. *Frontiers in Psychiatry – Addictive Disorders*, 7:55. PMC: PMC4822186, PMID: 27092088
88. **Wang K** (2016). A robust statistical method for constructing 3D chromosome structure using Hi-C chromatin interaction data. *Proceedings of International Conference on Applied Statistics 2016*. Phuket, Thailand
89. Yi Y, Sun X, Gibson-Corley K, Xie W, Liang B, He N, Tyler SR, Uc A, Philipson LH, **Wang K**, Hara M, Larson Ode K, Norris AW, Engelhardt JF (2016). A transient metabolic recovery from early life glucose intolerance in cystic fibrosis ferrets occurs during pancreatic remodeling. *Endocrinology*, 157(5):1852-1865. PMC: PMC4870869, PMID: 26862997
90. Hedberg-Buenz A, Christopher MA, Lewis CJ, Fernandes KA, Dutca LM, **Wang K**, Scheetz TE, Abramoff MD, Libby RT, Garvin MK, Anderson MG (2016). Quantitative measurement of retinal ganglion cell populations via histology-based random forest classification. *Experimental Eye Research*, 146:370-385. PMC: PMC4841761, PMID: 26474494
91. Hedberg-Buenz A, Christopher MA, Lewis CJ, Meyer KJ, Rudd DS, Dutca LM, **Wang K**, Garvin MK, Scheetz TE, Abramoff MD, Harper MM, Anderson MG (2016). RetFM-J, an ImageJ-based module for automated counting and quantifying features of nuclei in retinal whole-mounts. *Experimental Eye Research*, 146:386-392. PMC: PMC4753132, PMID: 26283021
92. Mondal P, Baumstein S, Prabhakaran S, Abu-Hasan M, Zeng Y, Singh S, **Wang K**, Ahrens RC, Hendeles L (2016). Bioassay of salmeterol in children using methacholine challenge with impulse oscillometry. *Pediatric Pulmonology*, 51(6):570-575. PMID: 26575323
93. Scheetz TE, Roos BR, Solivan-Timpe F, Miller K, DeLuca AP, Stone EM, Kwon YH, Alward WL, **Wang K**, Fingert JH (2016). SQSTM1 mutations and glaucoma. *PloS ONE*, 11(6):e0156001. PMC: PMC4898711, PMID: 27275741
94. Xu Y, Dai D, **Wang K** (2016). A flexible penalized integrated analysis of mRNA and miRNA expression levels as biomarkers for endometrial cancer classification. *Proceedings of the 5th Annual Global Healthcare Conference (GHC 2016)*:53-58.
95. **Wang K** (2016). Boosting the power of the sequence kernel association test by properly estimating its null distribution. *American Journal of Human Genetics*, 99(1):1041-14. PMC: PMC5005443, PMID: 27292111
96. Risma JM, Tehrani S, **Wang K**, Fingert JH, Alward WL, Kwon YH (2016). The utility of *i*atom tonometer measurements in patients with ocular hypertension, glaucoma, and glaucoma tube shunts: A preliminary study for its potential use in keratoprosthesis patients. *Journal of Glaucoma*, 25(8):643-7. PMID: 26950582
97. Koh WX, Hornbuckle KC, **Wang K**, Thorne P, (2016). Serum polychlorinated biphenyls and their hydroxylated metabolites are associated with demographic and behavioral factors in children and mothers. *Environment International*, 94:538-545. PMC: PMC4980156, PMID: 27352881
98. Yi Y, Norris AW, **Wang K**, Sun X, Uc A, Moran A, Engelhardt JF, Ode KL (2016). Abnormal glucose tolerance in infants and young children with cystic fibrosis. *American Journal of Respiratory and Critical Care Medicine*, 194(8):974-980. PMC: PMC5067820, PMID: 27447840
99. Scheetz TE, Faga B, Ortega L, Roos BR, Gordon MO, Kass MA, **Wang K**, Fingert JH (2016). Glaucoma risk alleles in the Ocular Hypertension Treatment Study (OHTS). *Ophthalmology*, 123(12):2527-2536. PMID: 27707548
100. Chirco KR, Whitmore SS, **Wang K**, Potempa LA, Halder JA, Stone EM, Tucker BA, Mullins RF (2016). Monomeric C-reactive protein and inflammation in age-related macular degeneration. *The Journal of Pathology*, 240(2):173-183. PMID: 27376713

101. Ismail AA, Bonner MR, Hendy O, Rasoul GA, **Wang K**, Olson JR, Rohlman DS (2017). Comparison of neurological health outcomes between two adolescent cohorts exposed to pesticides in Egypt. *PLOS One*:e0172696.
102. Ismail AA, **Wang K**, Olson JR, Bonner MR, Hendy O, Abdel Rasoul G, Rohlman DS (2017). The Impact of Repeated Organophosphorus Pesticide Exposure on Biomarkers and Neurobehavioral Outcomes among Adolescents. *Journal of Toxicology and Environmental Health, Part A: Current Issues*, 80(10-12):542-555. PMID: 28880741
103. Chung T, Lenci LT, **Wang K**, Collins TE, Griess MD, Oetting TA, Shriver E (2017). Effect of Fine-Motor-Skill Activities on Surgical Simulator Performance. *Journal of Cataract & Refractive Surgery*, 43:pp. 915-922.
104. Chen Z, Han S, **Wang K** (2017). Genetic association test based on principal component analysis. *Stat Appl Genet Mol Biol*, 16(3):189-198. PMID: 28672760
105. Kania-Korwel I, Wu X, **Wang K**, Lehmler H (2017). Identification of Lipidomic Markers of Chronic 3,3',4,4',5-Pentachlorobiphenyl (PCB 126) Exposure in the Male Rat Liver. *Toxicology*, 390:124-134. PMID: 28890136
106. Roh T, Lynch CF, Weyer P, **Wang K**, Kelly KM, Ludewig G (2017). Low-level arsenic exposure from drinking water is associated with prostate cancer in Iowa. *Environ Res*, 159:338-343.
107. Chen Z, Lu Y, Lin T, Liu Q, **Wang K** (2017). Gene-based genetic association test with adaptive optimal weights. *Genet Epidemiol.* (Accepted/In Press)
108. Bao M, **Wang K** (2017). Genome-wide association studies using a penalized moving-window regression. *Bioinformatics*, 33(24):3887-3894.
109. Clark TJ, Klejch WJ, Allen RC, Nerad JA, **Wang K**, Carter KD, Shriver EM (2017). Hering's law in congenital ptosis: evaluation of the contralateral response to unilateral congenital ptosis repair. *Ophthal Plast Reconstr Surg.* PMID: 28723733 (Accepted/In Press)
110. Guo Z, Kwon YH, Lee K, **Wang K**, Wahle A, Alward WL, Fingert JH, Bettis DI, Johnson CA, Garvin MK, Sonka M, Abramoff MD (2017). Optical Coherence Tomography Analysis Based Prediction of Humphrey 24-2 Visual Field Thresholds in Patients with Glaucoma. *Invest Ophthalmol Vis Sci*, 58(10):3975-3985. PMC: PMC5552000, PMID: 28796875
111. **Wang K** (2017). Conditional Asymptotic Inference for the Kernel Association Test. *Bioinformatics*, 33(23):3733-3739. PMID: 28961861
112. Chen Z, **Wang K** (2017). A gene-based test of association through an orthogonal decomposition of genotype scores. *Hum Genet*, 136(10):1385-1394. PMID: 28864915
113. Chen Z, Lin T, **Wang K** (2017). A powerful variant-set association test based on chi-square distribution. *Genetics*, 207(3):903-910. PMID: 28912342
114. Zeng Y, Singh S, **Wang K**, Ahrens RC (2017). Effect of Study Design on Sample Size in Studies Intended to Evaluate Bioequivalence of Inhaled Short-Acting Beta-Agonist Formulations. *Journal of Clinical Pharmacology.* (Accepted/In Press)
115. Liang Y, Liu X, Singletary MA, **Wang K**, Mattes TE (2017). Relationships between the abundance and expression of functional genes from vinyl chloride (VC)-degrading bacteria and geochemical parameters at VC-contaminated sites. *Environ Sci Technol*, 51(21):12164-12174. PMID: 28981261
116. **Wang K** (2017). Understanding power anomalies in mediation analysis. *Psychometrika.* (Accepted/In Press)
117. Jiao C, Elliott D, Spee C, He S, **Wang K**, Mullins RF, Hinton DR, Sohn EH (2017). Apoptosis and Angiofibrosis in Diabetic Tractional Membranes after VEGF Inhibition: Results of a Prospective Trial. *Retina.* (Accepted/In Press)
118. Clark T, Evans J, **Wang K**, Shriver E (2017). The Effect of Iris Show on Perceived Upper Eyelid Height. *Canadian Journal of Ophthalmology.* (Accepted/In Press)
119. Rosen BH, Evans TIA, Moll SR, Gray JS, Liang B, Sun X, Zhang Y, Jensen-Cody CW, Swatek AM, Zhou W, He N, Rotti PG, Tyler SR, Keiser NW, Anderson PJ, Brooks L, Li Y, Pope TM, Rajput M, Hoffman EA, **Wang K**, Harris JK, Parekh KR, Gibson-Corley KN, Engelhardt JF (2018). Infection Is

- Not Required for Mucoinflammatory Lung Disease in CFTR-Knockout Ferrets. *American Journal of Respiratory and Critical Care Medicine*. (Accepted/In Press)
120. Miraldi Utz V, Pfeifer WO, Longmuir SQ, Olson R, **Wang K**, Drack AV (2018). The presentation of TRPM1-associated Congenital Stationary Night Blindness in children. *JAMA Ophthalmology*. (Accepted/In Press)
 121. **Wang K** (2017). Identification and maximum likelihood estimation in mediation models with interaction and unobserved confounding. (*Submitted*)
 122. Rohlman DS, Ismail A, Bonner MR, Rasoul GA, Hendy O, Ortega L, **Wang K**, Olson JR (2017). Occupational Pesticide Exposure and Attention Deficit Hyperactivity Disorder in Adolescent Pesticide Applicators in Egypt. (*Submitted*)
 123. **Wang K** (2017). Statistical mediation analysis via likelihood. (*Submitted*)
 124. Chirco KR, Whitmore SS, **Wang K**, Potempa LA, Halder JA, Stone EM, Tucker BA, Mullins RF (2017). The monomeric form of C-reactive protein (mCRP) is abundant in eyes homozygous for the CFH Y402H allele and induces pro-inflammatory gene expression in human RPE and choroid. (*Submitted*)
 125. Hedberg-Buenz A, Koehn DR, Meyer KJ, Lewis CJ, Mercer HE, **Wang K**, Anderson MG (2017). Mouse models and strain-dependency of Chédiak-Higashi syndrome-associated neurologic dysfunction. (*Submitted*)
 126. Sohn EH, Flamme-Wiese MJ, Zhang L, Workalemahu G, Kwon YH, **Wang K**, Tucker BA, Abramoff MD, Stone EM, Mullins RF, (2017). Choroidal vascular loss in the atrophic form of age-related macular degeneration. (*Submitted*)
 127. Chen Z, **Wang K** (2017). Gene-based sequential burden association test. (*Submitted*)
 128. Huang Y, **Wang K** (2017). Analysis of Microbiome Sequencing Data via Censored Quantile Regression. (*To be submitted*)

Non-Peer-Reviewed Publications

1. Mendell NR, Babron M, Boddeker I, Chiu Y, Grigull J, Eerdewegh PV, **Wang K** (2001). Introduction: Heterogeneity. *Genet Epidemiol*, 21 (Suppl 1):S42-S43.
2. König IR, Nsengimana J, Papachristou C, Simonson MA, **Wang K**, Weisburd JA (2011). Multiple Testing in High-Throughput Sequence Data: Experiences from Group 8 of the Genetic Analysis Workshop 17. *GAW 17*

Book Chapters

1. Huang J, **Wang K** (2003). Semiparametric methods for mapping quantitative trait loci. H Zhang, J Huang (Eds.), Development of Modern Statistics and Related Topics, New Jersey: *World Scientific Publishing Co*, 1: 262-271.

Others

1. **Wang K** (2012). R package iGasso. <https://cran.r-project.org/web/packages/iGasso/>
2. **Wang K** (2013). R package ExactPath. <https://cran.r-project.org/web/packages/ExactPath/>
3. **Wang K** (2017). R package iMediate <https://cran.r-project.org/web/packages/iMediate/>

AREAS OF RESEARCH INTEREST

- Statistical genetics/genomics, omics data
- Bioinformatics, high-dimensional data, big data
- Statistical mediation analysis, causal inference
- Regularized regression

SPONSORED RESEARCH (*All grants*)

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
P30 ES005605 National Institutes of Health Environmental Health Sciences Research Center Peter Thorne Principal Investigator Kai Wang Co-Investigator	8%	\$995,971 09/29/1990-03/31/2022
R01 DC002842 NIH Non-Syndromic Hearing Loss - A Collaborative Study Richard Smith Investigator Kai Wang Co-Investigator	8%	\$346,468 09/30/1996-08/31/2019
College of Public Health-College of Medicine New Investigator Award Linkage analysis under linkage disequilibrium and disease locus heterogeneity Kai Wang Principal Investigator	0%	01/01/2001-12/31/2001
R01 NIMH Sampling models and methods for complex genetic diseases Veronica Vieland Principal Kai Wang Co-Investigator	25%	03/01/2001-07/31/2003
R01 NIH A collaborative linkage study of autism Val Sheffield Principal Kai Wang Co-Investigator	21%	03/01/2001-05/31/2001

R01 NIH Molecular Biology of Syndromic Retinal Degeneration Val Sheffield Principal Kai Wang Co-Investigator	10.1%	08/01/2002-07/30/2007
R01 NIH Infrastructure to Facilitate Discovery of Autism Genes Veronica Vieland Principal Kai Wang Co-Investigator	17%	08/01/2002-07/31/2003
COM HHMI Pilot Collaborative project Genetic Mapping of Familial Adolescent Idiopathic Scoliosis Jose Morcuende Principal Kai Wang Co-Investigator	0%	01/01/2003-12/31/2005
R01 NIMH A novel approach for finding genes in autism Tom Wassink Principal Kai Wang Co-Investigator	25%	07/01/2003-08/31/2003
University of Iowa, Mathematical & Physical Sciences Funding Program Locating genes responsible for continuous traits: A software tool Kai Wang Principal	0%	01/01/2005-12/31/2005
R01 EY010564-12 NIH Molecular Genetics of Hereditary Glaucoma Val Sheffield Principal Kai Wang Co-Investigator	10%	01/01/2006-12/31/2011

P42 ES013661 NIH/NIEHS Semi-Volatile PCBs: Sources, Exposures, Toxicities (Superfund Research Program for the Administrative Core) Larry Robertson Principal Kai Wang Co-Investigator	1.68 months 14%	05/12/2006-03/31/2020
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NIH-NHLBI 7 R01 HL084086 NIH Genetic Modifiers of von Willebrand Disease Jorge D. Paola Principal Investigator Kai Wang Co-Investigator	12%	\$225,000 02/01/2007-01/31/2012
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R01 CA122934-01A2 NIH Elderly Cancer Survivors: Cognitive Outcomes and Markers of Neurodegeneration Susan Schultz Principal Kai Wang Co-Investigator	5%	07/01/2007-06/30/2008
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R01 EY017673 NIH Genetic Dissection of Pigmentary Glaucoma Michael Anderson Principal Investigator Kai Wang Co-Investigator	0.12 months 1%	\$200,000 04/01/2008-01/31/2018
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3 U01 MH070010-03S1A2 NIH Prediction of Relapse in Schizophrenia Del D. Miller Principal Investigator Kai Wang Co-Investigator		07/01/2008-12/31/2010
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Environmental Health Sciences Research Center (EHSRC) Pilot Grant Robust Statistical Methods for Studies of Susceptibility to Environmentally Induced Diseases Kai Wang Principal Investigator	0%	\$23,200 04/01/2009-03/31/2010
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5 T15 HL097622 NIH Iowa Summer Institute in Biostatistics (ISIB) Kathryn M. Chaloner Principal Investigator Kai Wang Co-Investigator	0.48 months 4%	\$217,159 08/20/2009-02/28/2016
High Q Foundation Neurobiological Predictors of Huntington's Disease – Biostatistics Core Jane Paulsen Principal Investigator Kai Wang Co-Investigator	15%	\$8,378,958 12/14/2009-04/30/2011
5 P42 ES013661 NIH/NIEHS Semi-Volatile PCBs: Sources, Exposures, Toxicities (Superfund Research Program for the Administrative Core) Larry Robertson Principal Investigator Kai Wang Co-Investigator	1.68 months 14%	\$2,022,661 04/01/2010-03/31/2015
R01 EY017451 NIH Choriocapillaris Activation in Macular Degeneration Robert Mullins Principal Investigator Kai Wang Co-Investigator	10%	\$1,326,088 06/01/2010-07/31/2012
5 R01 EY018825 NIH Genetics of Quantitative Traits Associated with Glaucoma John Fingert Principal Investigator Kai Wang Co-Investigator	1.2 months 10%	\$401,499 07/01/2010-06/30/2014
5 R01 EY016822 NIH Molecular Genetics of Age Related Macular Degeneration Edwin Stone Principal Investigator Kai Wang Co-Investigator	0.6 months 5%	\$350,712 09/01/2010-05/31/2015

5 R01 CA122934-05 NIH Elderly Cancer Survivors: Cognitive Outcomes and Markers of Neurodegeneration Susan Schultz Principal Kai Wang Co-Investigator	5%	\$136,800 04/01/2011-03/31/2012
R24 DK096518 NIH Early Pathogenesis of Cystic Fibrosis Related Diabetes John Engelhardt Investigator Kai Wang Statistician	5%	\$1,071,925 08/15/2012-06/30/2019
R01 EY023187 NIH Genetic Determinants of Optic Nerve Head Structure Todd Scheetz Principal Kai Wang Co-Investigator	1.2 months 10%	\$271,185 03/01/2013-02/28/2016
R01 ES022163 NIH Vulnerability of the Adolescent Brain to Organophosphorus Pesticides Diane Rohlman Principal Kai Wang Co-Investigator	6%	\$485,074 03/04/2013-10/31/2017
R01 HG008348 National Institutes of Health Interactive Multimedia Consent for Biobanking Christian Simon Principal Investigator Kai Wang Co-Investigator	5%	\$464,592 08/10/2015-05/31/2018
R01 EY026087 National Institutes of Health Unraveling the 10q AMD Risk Locus Edwin Stone Principal Investigator Kai Wang Co-Investigator	8.3%	\$325,084 09/01/2016-08/31/2020

R21 ES027169	10%	\$150,000
National Institutes of Health		09/01/2017-08/31/2019
PCB Enantiomers Implicated in Neurodevelopmental Disorders: Identification of Individual Metabolic Factors that Determine Risk and Vulnerability		
Hans-Joachim Lehmler Principal Investigator		
Kai Wang Co-Investigator		

EHSRC Pilot Grant		\$40,000
Environmental Health Sciences Research Center		09/01/2017-08/31/2018
Prospective Investigation of Environment Exposure to BPA and BPA Substitutes in Early Pregnancy in Relation to Pregnancy Complications		
Buyun Liu Principal Investigator		
Kai Wang Investigator		

R21 HD91458	5%	\$150,000
National Institutes of Health		09/10/2017-06/30/2019
Pregnancy-Associated microRNAs in Plasma as Predictors of Gestational Diabetes		
Wei Bao Principal Investigator		
Kai Wang Co-Investigator		

PRESENTATIONS

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1997	Combining Results in Linkage Study: An Empirical Bayes Approach	American Society of Human Genetics, Baltimore, Maryland	Poster
1998	Combining Results in Linkage Study: An Empirical Bayes Approach	Inter-Iowa Genetics Symposia, Grinnell, Iowa	Poster
1999	A New Linkage Analysis Method for Complex Disorders Based on Multiple Sets of Data	American Society of Human Genetics, San Francisco, California	Poster
1999	Drawbacks of Genehunter for Larger Pedigrees: Application to Panic Disorder	World Congress on Psychiatric Genetics, Monterey, California	Poster
2000	On the Maximization Procedure of the Heterogeneity LOD in Genehunter	International Genetic Epidemiology Society, San Antonio, Texas	Oral
2000	A Novel Method for Estimation of Short Tandem Repeat Polymorphic Marker Allele Frequencies from Pooled DNA Samples	American Society of Human Genetics, Philadelphia, Pennsylvania	Poster
2000	The Null Distribution of the Heterogeneity LOD Score (HLOD) Does Depend on the Assumed Genetic Model for the Trait	International Genetic Epidemiology Society, San Antonio, Texas	Poster

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2000	The Posterior Probability of Linkage (PPL) Incorporating Prior Genomic Information is Efficient for Detection of Linkage and Estimation of Male/Female Recombination Rates for Complex Disorders	American Society of Human Genetics, Philadelphia, Pennsylvania	Poster
2000	The Use of Summed LOD Score as a Simple and Approximate Measure of Evidence for Linkage Based on Multiple Independent Data Sets	American Society of Human Genetics, Philadelphia, Pennsylvania	Poster
2002	Efficient Score Statistics for Mapping Quantitative Trait Loci	Department of Mathematics & Statistics, Memorial University of Newfoundland, Canada	Oral
2002	Efficient Score Statistics for Mapping Quantitative Trait Loci Using Multiple Phenotypes	International Genetic Epidemiology Society, New Orleans, Louisiana	Oral
2002	Mapping Quantitative Trait Loci with General Pedigrees	Department of Statistics, University of Iowa	Oral
2002	Score Statistics for Mapping Quantitative Trait Loci with Extended Pedigrees	American Society of Human Genetics, Baltimore, Massachusetts	Oral
2002	Score Tests for Mapping Quantitative Trait Loci with General Pedigrees: Two-locus Models	Department of Biostatistics, University of Iowa	Oral
2003	Locus Heterogeneity Models for Quantitative Traits and Related Test Statistics	International Genetic Epidemiology Society, Redondo Beach, California	Oral
2003	Using Trait Data and Marker Data in Selected Samples Simultaneously: QTL Mapping Adaptive to the Extent of Selection	Program in Public Health Genetics, University of Iowa	Oral
2003	Using Trait Data and Marker Data in Selected Samples Simultaneously: QTL Mapping Adaptive to the Extent of Selection	Annual meeting of the International Genetic Epidemiology Society	Oral
2004	A Statistical Method for Detection and Estimation of Deletion Length From a Very Dense Set of Markers	Program in Public Health Genetics, University of Iowa	Oral
2004	Quantitative-trait-loci Mapping with Selected Samples	Department of Statistics, Nankai University, Tianjin, China	Oral
2004	Some Issues Related to the Use of SNP Data	Dr. Val Sheffield Lab Meeting	Oral
2005	A Constrained Likelihood Approach to Marker-Trait Association Studies	The Joint Meeting of the Chinese Society of Probability and Statistics and the Institute of Mathematical Statistics, Beijing, China	Oral
2005	A Constrained-likelihood Approach to Genotype-trait Association Studies	American Society of Human Genetics, Salt Lake City, Utah	Oral

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2005	A Multiallelic Test for Marker-trait Association Studies	International Genetic Epidemiology Society, Park City, Utah	Oral
2005	Statistical Genetics: Overview, Theory and Application	College of Mathematics and System Science, Xinjiang University, China	Oral
2006	A Likelihood Ratio Test of Incomplete Dominance Versus Overdominance and/or Under Dominance	Department of Statistics and Actuarial Sciences, University of Iowa, Iowa City, Iowa	Oral
2006	A Score-based Approach to Quantitative Trait Loci Mapping in Inbred Lines Using Flanking Markers	Department of Biostatistics, University of Iowa, Iowa City, Iowa	Oral
2006	A Score-based Approach to Quantitative Trait Loci Mapping in Inbred Lines Using Flanking Markers	Department of Population Health Sciences, University of Wisconsin, Madison, Wisconsin	Oral
2006	Statistical Methods for Testing for 1) Overdominance, 2) Linkage Jointly to Two Loci, and 3) Association using DNA Pooling with SNP Chips	Dr. Val Sheffield Lab Meeting	Oral
2007	Statistical Analyses of an Autism Follow-Up Study	Dr. Val Sheffield Lab Meeting	Oral
2007	An Association Study of Candidate Modifier Genes in a Large Pedigree with Von Willebrand Disease	American Society of Human Genetics, Atlanta, Georgia	Poster
2008	Detection of and Correcting for the Effect of Population Stratification in the Association Analysis of Big Human Project Data	Dr. Val Sheffield's Lab Meeting	Oral
2008	Statistical Analysis of Data from the Big Human Project	Dr. Val Sheffield Lab Meeting	Oral
2008	Visualization and Evaluation of Complex Microarray Datasets	Dr. Larry Robertson's Lab Meeting	Oral
2008	Spatial Distribution and Sources of Atmospheric PCBs in the Chicago Urban Industrial Region	PCB Workshop, Iowa City, Iowa	Poster
2008	Testing Genetic Association in the Presence of Population Stratification	17th Annual Meeting, International Genetic Epidemiology Society, St. Louis, Missouri	Oral
2009	Detection of and Correcting for the Effect of Population Stratification in Genetic Association Analysis with Application to an Eye Disease Study	International Workshop on Probability Theory, Statistics and Their Application to Biology, Beijing, China	Oral
2009	A Novel Efficient Genome-wide Association Study Design: Application to Glaucoma and Age-related Macular Degeneration	59th Annual Meeting, American Society of Human Genetics, Honolulu, Hawaii	Poster

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2009	Linkage Analysis in a Large Amish Pedigree with Von Willebrand Disease Identifies Regions Suggestive of Linkage and Candidate Modifier Genes	59th Annual Meeting, American Society of Human Genetics, Honolulu, Hawaii	Poster
2010	Population Structure and Studies of Susceptibility to Environmentally Induced Diseases	EHSRC Retreat, University of Iowa	Oral
2010	Statistical Methods for Genetic Association Studies	Department of Biostatistics, University of Iowa	Oral
2010	Treating Phenotype as Given: A Novel Resampling Method for Genome-Wide Association Studies	Genetic Analysis Workshop 17, Boston, Massachusetts	Poster
2012	Statistical Methods in Genetic Association Studies: Cryptic Relatedness, Population Stratification, and Rare Variants	Department of Biostatistics, University of Iowa	Oral
2013	Association test in the presence of population stratification	Wellcome Trust Statistical Genetics Workshop, Wellcome Trust, Hinxton, England	Oral
2013	Exact LASSO linear regression	2013 Joint Statistical Meetings, Montreal, Canada	Oral
2014	An Efficient Variance Components Model for Genome-Wide Association Study with Structured Populations	Department seminar, Department of Epidemiology and Biostatistics Indiana University Bloomington, Bloomington, Indiana	Oral
2014	An efficient variance components model for genome-wide association studies with structured population	International Workshop on Statistics Frontier and Related Topics, Xinjiang University, Xinjiang University of Finance & Economics, and Xinjiang Society of Mathematics, Urumqi, Xinjiang, China	Oral
2015	Robust estimation of 3-D chromosome structure from Hi-C chromatin interaction data	ENAR, Miami, Florida	Oral
2015	Robust estimation of 3-D chromosome structure from Hi-C chromatin interaction data	Applied Mathematical and Computational Sciences (AMCS), University of Iowa	Oral
2015	Robust estimation of 3-D chromosome structure from Hi-C chromatin interaction data	Division of Biostatistics, University of Minnesota	Oral
2016	A flexible penalized integrated analysis of mRNA and miRNA expression levels as biomarkers for endometrial cancer classification	5th Annual Global Healthcare Conference (GHC 2016), Global Science and Technology Forum (GSTF), Singapore, Singapore	Oral
2016	Robust Estimation of 3-D Chromosome Structure from Hi-C Chromatin Interaction Data	International Conference on Applied Statistics 2016, Thai Statistical Association, Phuket, Thailand	Oral

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2016	Conditional Inference for the Kernel Association Test	Joint Statistical Meetings, ASA, ENAR, and WNAR etc., Chicago, Illinois, United States	Oral
2017	Mediation Analysis in Observational Studies via Likelihood	ENAR 2017 Spring Meeting, ENAR, Washington DC	Oral
2017	Statistical Mediation Analysis via Likelihood	Department of Biostatistics, Iowa City, Iowa	Oral
2017	Simple bias formulas for mediation analysis with unmeasured confounding	9th EMR-IBS and Italian Region Conference, Thessaloniki, Greece	Oral

PROFESSIONAL ORGANIZATION AFFILIATIONS

- American Society of Human Genetics (2000-present)
- International Genetic Epidemiology Society (2000-present)
- Eastern North American Region International Biometric Society (2012-present)
- American Statistical Association (2012-present)
- International Chinese Statistical Association (2012-present)

PROFESSIONAL SERVICES

Journal Manuscript Review

- Annals of Statistics, JASA, Biometrics, Biostatistics, Statistica Sinica, Statistics in Medicine, Journal of Computational and Graphical Statistics, Computational Statistics and Data Analysis
- American Journal of Human Genetics, Annals of Human Genetics, Genome Research, Human Heredity, Genetic Epidemiology, Genetic Analysis Workshop, BMC Genetics, Journal of Mathematical Biology, Physiological Genomics, Human Genomics and Proteomics, BMC Bioinformatics, Bioinformatics, Human Genomics and Proteomics, Genetics, Psychiatric Genetics, Frontiers in Evolutionary and Population Genetics
- Circulation, Journal of Clinical Epidemiology, Env. Sci. and Technology, Ophthalmologica, Translational Research, PLoS One, BMJ Open

Book Review

- Analyzing Medical Data Using S-PLUS. Springer 2000
- Genetic Basis of Complex Disease. Garland Science 2013

Grant Review

- American Cancer Society, 2002
- National Security Agency Mathematical Sciences Grant Program, 2013, 2014

Conference Session Chair

- Genetic Analysis Workshop 17, 2011
- 5th Annual Global Healthcare Conference, Singapore. GHC 2016

External Reviewer for Promotion and Tenure

<u>Year</u>	<u>Organization</u>
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<u>Year</u>	<u>Organization</u>
2012	School of Public Health, University of Minnesota
2014	School of Public Health, Indiana University-Bloomington
2014	School of Statistics and Management, Shanghai University of Finance and Economics
2015	School of Public Health, University of Minnesota
2015	University of Notre Dame
2016	School of Public Health, Indiana University-Bloomington
2017	College of Medicine, University of Illinois at Chicago
2017	School of Public Health and Tropical Medicine, Tulane University
2017	University of Texas Health Science Center at Houston
2017	Department of Biostatistics, Mayo Clinic

Departmental, Collegiate or University Service

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1999-2003	College of Public Health, University of Iowa, Instructional Development and Evaluation Committee	Member
2000-2001	College of Public Health, University of Iowa, Biostatistics Seminar Committee	Chair
2000-2001	Department of Biostatistics, College of Public Health, University of Iowa, M.S. Core Exam Committee	Member
2001	Department of Biostatistics, College of Public Health, University of Iowa, Ph.D. Comprehensive Exam Committee	Member
2001	Department of Biostatistics, College of Public Health, University of Iowa, Statistical Genetics Faculty Search Committee	Member
2002-2003	Department of Biostatistics, College of Public Health, University of Iowa, Student Admissions Committee	Member
2003-2006	College of Public Health, University of Iowa, Curriculum Committee	Member
2003-2004	Program in Public Health Genetics, College of Public Health, University of Iowa, Admissions Committee	Chair
2004-2007	College of Public Health, University of Iowa, Curriculum Committee	Member
2004-2005	College of Public Health, University of Iowa, Faculty Council	Member
2004-2005	College of Public Health and Carver College of Medicine, University of Iowa, New Investigator Research Award Review Committee	Member
2004	Program in Public Health Genetics, College of Public Health, University of Iowa, Ph.D. Comprehensive Exam Committee	Chair
2005-2007	College of Public Health, University of Iowa, Alumni Relations Council	Member
2005-2007	College of Public Health, University of Iowa, Awards Committee	Member
2005-2006	College of Public Health, University of Iowa, Awards Committee	Member
2007-2009	Department of Biostatistics, College of Public Health, University of Iowa, M.S. Exam Committee	Chair
2007-2008	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Seminar Committee	Chair

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2007-2008	Department of Biostatistics, College of Public Health, University of Iowa, Departmental Self-Study Committee	Member
2007-2008	Program in Public Health Genetics, College of Public Health, University of Iowa, Doctoral Comprehensive Examination Committee	Chair
2007-2008	Department of Biostatistics, College of Public Health, University of Iowa, Faculty Search Committee	Member
2007-2008	Department of Biostatistics, College of Public Health, University of Iowa, Recruitment and Admissions Committee	Member
2008	Department of Biostatistics, College of Public Health, University of Iowa, Course Renumbering Committee	Member
2009-2012	Bioinformatics PhD Program, College of Public Health, University of Iowa, Admissions Committee	Member
2009-2011	Department of Biostatistics, College of Public Health, University of Iowa, M.S. Exam Committee, Spring	Chair
2009	College of Public Health, University of Iowa, Strategic Planning Initiative: Research Foci and Organization Subgroup	Member
2010-2013	College of Public Health, University of Iowa, Faculty Council	Member
2010-2011	Department of Biostatistics, College of Public Health, University of Iowa, Seminar Committee	Chair
2010	Health Sciences Research Week	Graduate Student Poster Judge
2011	Department of Biostatistics, College of Public Health, University of Iowa, Theory Course Committee	Member
2011-2015	Biostatistics Seminar Committee	Member
2012-2013	Clinical Trials Faculty Search Committee	Member
2012-2013	Genetics Cluster Hire Search Committee	Member
2012	CPH Faculty Council Best Practices Task Force	Member
2013	Biostatistics Seminar Committee	Member
2013	M.S. Exam Committee	Member
2014-2019	College of Public Health, University of Iowa, CPH Faculty Council	Member
2014-2015	CPH Curriculum Innovations Committee: Academic subgroup	Member
2014	CPH Promotion and Tenure Committee	Member
2014	M.S. Exam Committee: Fall	Member
2014	Department of Biostatistics, Ph.D. Comprehensive Examination Committee: Fall	Member
2015-2017	CPH Faculty Council	Co-Chair
2015	Collegiate Consulting Group	Member
2015	Post-Tenure Review Committee of Professor Michael P. Jones	Chair
2015	Post-Tenure Review Committee of Professor Shelly Campo	Member
2015	M.S. Core Exam Committee (January 2015)	Member
2015	M.S. Core Exam Committee (Summer 2015)	Member
2016-	CPH Promotion and Tenure Committee	Member
2016-	M.S. Core Exam Committee (January)	Member
2016-2019	EHSRC Internal Advisory Committee	Member
2016-2017	DCG for Promotion to Full Professor	Member
2016	Biostatistics Third-Year Review Committee for Professor	Member
2016	CCG for Promotion to Associate Professor	Member
2016	CCG for Promotion to Clinical Professor	Member
2016	DCG for Tenure and Promotion to Associate Professor	Member

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2017-	M.S. and Ph.D. Curriculum Committee	Member
2017-2019	CPH Faculty Council	Member
2017-2018	M.S. and Ph.D. Curriculum Committee	Member
2017-2018	Peer Review Committees for Promotion to Full Professor	Member
2017	CCG for Promotion to Associate Professor	Member
2017	CCG for Promotion to Associate Professor	Member
2017	CCG for Promotion to Full Professor	Member
2017	CCG for Promotion to Full Professor	Member
2017	Peer Review Committees for Promotion to Full Professor	Member
2017	Biostatistics PhD Comprehensive Exam	Question-writer
2018	CPH Promotion and Tenure Committee	Chair
2018	M.S. Core Exam Committee (January 2018)	Member

Junior Faculty Mentoring

- Dr. Yuan Huang, Assistant Professor at Department of Biostatistics