

**CURRICULUM VITAE**  
**JINYING ZHAO, MD, PhD**

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**Office Address & Telephone:**

Department of Epidemiology  
College of Public Health and Health Professions and College of Medicine  
2004 Mowry Road, 4th Floor  
PO Box 100231  
Gainesville, FL 32610  
Phone: (352) 273-5933  
Fax: (352) 273-5365  
Email: [jzhao66@ufl.edu](mailto:jzhao66@ufl.edu)

**EDUCATION**

2000-2005      Doctor of Philosophy (Statistical Genetics & Genetic Epidemiology)  
University of Texas Health Science Center at Houston, Houston, TX

1996-1999      Doctor of Philosophy (Molecular Genetics)  
Chinese Academy of Medical Sciences, Beijing, China

1989-1992      Master of Science (Pathology)  
Zhengzhou University School of Medicine, Zhengzhou, China

1984-1989      Doctor of Medicine  
Zhengzhou University School of Medicine, Zhengzhou, China

**PROFESSIONAL EXPERIENCE**

08/2016 –                      **Dean's Professor & Director**, Division of Genetic Epidemiology  
Department of Epidemiology, College of Public Health and Health  
Professions and College of Medicine  
University of Florida, Gainesville, FL

8/2016 –                        **Adjunct Professor**  
Department of Epidemiology  
School of Public Health and Tropical Medicine  
Tulane University, New Orleans, LA

07/2014 – 8/2016              **Professor**  
Department of Epidemiology  
School of Public Health and Tropical Medicine  
Tulane University, New Orleans, LA

07/2012 – 06/2014            **Associate Professor**  
Department of Epidemiology  
School of Public Health and Tropical Medicine  
Tulane University, New Orleans, LA

|                   |   |
|-------------------|---|
| 01/2009 – 06/2012 | <b>Associate Professor</b><br>Department of Biostatistics and Epidemiology<br>College of Public Health<br>University of Oklahoma HSC, Oklahoma City, OK         |
| 01/2006 – 12/2009 | <b>Assistant Professor</b><br>Division of Cardiology, Department of Medicine<br>Emory University School of Medicine, Atlanta, GA                                |
| 05/2000 – 12/2005 | <b>Graduate Research Assistant</b><br>Human Genetics Center, School of Public Health<br>University of Texas Health Science Center at Houston<br>Houston, Texas  |
| 07/1999 – 04/2000 | <b>Postdoctoral Research Fellow</b><br>Human Genetics Center, School of Public Health<br>University of Texas Health Science Center at Houston<br>Houston, Texas |
| 07/1992 – 06/1999 | <b>Clinical Pathologist</b><br>Department of Pathology, Henan People's Hospital<br>Zhengzhou, China   |

## HONORS AND AWARDS

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|------|---|
| 2012 | <b>Winner, <i>Roger R. Williams Award for Genetic Epidemiology in the Prevention and Treatment of Atherosclerosis</i></b> , presented by the American Heart Association |
| 2010 | <b>Nominee, <i>Provost's Research Awards</i></b> , University of Oklahoma Health Science Center   |
| 2010 | <b><i>Outstanding Faculty Award in Research or Scholarly Achievement</i></b> , presented by College of Public Health, University of Oklahoma Health Science Center      |
| 2009 | <b>Finalist, <i>Sandra Daugherty Award for Excellence in Cardiovascular Disease or Hypertension Epidemiology</i></b> , presented by the American Heart Association      |
| 2006 | <b>Winner, <i>Elizabeth Barrett-Connor Research Award for Young Investigators</i></b> , presented by the American Heart Association                                     |

## PROFESSIONAL MEMBERSHIP

- American Society of Human Genetics
- American Heart Association
- American Diabetes Association

**TEACHING AND MENTORING*****Graduate courses***

- 2017                    **Genetic Epidemiology (Course master, 3 credit hours)**  
Department of Epidemiology, University of Florida, Gainesville, FL
- 2012- 2016            **Genetic Epidemiology (Course master, 3 credit hours)**  
Department of Epidemiology  
School of Public Health and Tropical Medicine, Tulane University, LA
- 2010-2012            **Statistical Methods in Genetic Epidemiology (Course master, 3 credit hours)**  
Department of Biostatistics and Epidemiology  
College of Public Health, University of Oklahoma HSC, OK
- 2011-2012            **Molecular and Genetic Epidemiology (Course master, 3 credit hours)**  
Department of Biostatistics and Epidemiology  
College of Public Health, University of Oklahoma HSC, OK
- 2009-2012            **Cancer Epidemiology (3 credit hours)**  
Department of Biostatistics and Epidemiology  
College of Public Health, University of Oklahoma HSC, OK
- 2010-2011            **Problems in Biostatistics and Epidemiology (3 credit hours)**  
Department of Biostatistics and Epidemiology  
College of Public Health, University of Oklahoma HSC, OK

***Academic Advisor and Mentor*****Junior Faculty Mentor**

- 2016-present    Hui Hu, PhD, Research Assistant Scientist, Department of Epidemiology  
PHHP & COM, University of Florida, FL
- 2014-2016        Qi Zhao, MD, PhD, Research Assistant Professor, Department of Epidemiology  
Tulane School of Public Health and Tropical Medicine, LA

**Postdoctoral Fellows**

- 2009-2012        Jingyun Yang, PhD  
College of Public Health, University of Oklahoma Health Science Center, OK
- 2013-2014        Shufeng Chen, MD, PhD  
School of Public Health and Tropical Medicine, Tulane University, LA
- 2015-                Hao Peng, PhD  
School of Public Health and Tropical Medicine, Tulane University, LA

**PhD Committees Chair**

- 2017- Pooja Subedi  
Department of Epidemiology  
College of Public Health and Health Professions and College of Medicine  
University of Florida, FL
- 2016- Yun Zhu  
Department of Epidemiology  
College of Public Health and Health Professions and College of Medicine  
University of Florida, FL
- 2014-2016 Yun Zhu  
Department of Epidemiology  
School of Public Health and Tropical Medicine, Tulane University, LA
- 2013-2016 Qiang An  
Department of Epidemiology  
School of Public Health and Tropical Medicine, Tulane University, LA

**PhD Dissertation Committees**

- 2016- Zhaoyi Chen  
Department of Epidemiology  
College of Public Health and Health Professions, University of Florida, FL
- 2016-2017 Sheldon Waugh  
Department of Epidemiology  
College of Public Health and Health Professions, University of Florida, FL
- 2013-2015 Changwei Li, PhD  
Department of Epidemiology  
School of Public Health and Tropical Medicine, Tulane University, LA
- 2014-2016 Yu Deng  
Department of Biostatistics  
The University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2014-2016 Weiwei Ouyang  
Department of Biostatistics and Bioinformatics  
School of Public Health and Tropical Medicine, Tulane University, LA

**GRANTS**

**Active**

**RF1AG052476-02**

**Zhao (PI)**

**\$3,765,078**

Title: Genome-wide profiling of brain DNA hydroxymethylome in Alzheimer's disease

Source: National Institute of Aging (NIA)

Dates: 05/01/2016-04/30/2021

**Role: Principal Investigator**

**R01DK107532**

**Zhao (PI)**

\$3,076,642

Title: Novel metabolic predictors of diabetes in American Indians

Source: National Institute of Diabetes and Digestive and Kidney Disease (NIDDK)

Dates: 08/01/2016-07/30/2020

**Role: Principal Investigator**

**R01MH097018**

**Zhao (PI)**

\$3,127,223

Title: Epigenetic determinants for depression: a monozygotic discordant twin study

Source: National Institute of Mental Health (NIMH)

Dates: 08/15/13-07/31/18

**Role: Principal Investigator**

**R01MH097018-06S1**

**Zhao (PI)**

\$63,000

Title: Epigenetic determinants for depression: a monozygotic discordant twin study

Source: National Institute of Mental Health (NIMH)

Dates: 08/01/17-07/31/18

**Role: Principal Investigator**

**DRPD-ROF2017**

**Zhao (PI)**

\$95,000

Title: An Integrated Multi-'omics' Analysis of Myelodysplastic Syndromes

Source: 2017 Research Opportunity Seed Fund Award

Dates: 06/01/2017-06/30/2019

**Role: Principal Investigator**

**17SDG33630165**

**Hu (PI)**

Title: The Total Environment and Hypertensive Disorders of Pregnancy: A Precision Public Health Approach

Source: American Heart Association (AHA)

Dates: 07/01/2017-06/30/2020

**Role: Primary mentor**

**Pending award**

**1R01MDxxxxxx**

**Kertes (PI)**

Title: Epigenetic mechanisms of emotional/behavioral health among impoverished African-American youth

Source: National Institute of Minority and Health Disparities (NIMHD)

Dates: 09/01/2017-08/30/2022

**Role: Co-Investigator (5% effort)**

**Pending**

**1R01 MD011745****Zhao (PI)**

Title: Genomewide profiling of socioenvironmental exposome in risk of diabetes among Hispanics/Latinos

Source: National Institute of Minority and Health Disparities (NIMHD)

Dates: 07/01/2017-06/30/2022

**Role: Principal Investigator**

**1R01DK115871****Zhao (PI)**

Title: Differential metabolic and epigenetic responses to bariatric surgery versus intensive medical intervention: a longitudinal study in severely obese patients

Source: National Institute of Diabetes and Digestive and Kidney Disease (NIDDK)

Dates: 07/01/2017-06/30/2022

**Role: Principal Investigator**

**1R01DK109112-01A1****Zhao (PI)**

Title: Genetic determinants of telomere length and the causal impact of telomere shortening on diabetes risk in American Indians

Source: National Institute of Diabetes and Digestive and Kidney Disease (NIDDK)

Dates: 09/01/2016-08/31/2021

**Role: Principal Investigator**

**1R21CA227596****Zhao (PI)**

Title: Integrated multiomics approach to identify novel biomarkers for MDS

Source: National Institute of Cancer (NCI)

Dates: 04/01/2018-03/31/2020

**Role: Principal Investigator**

**1R21MH116401****Zhao (PI)**

Title: DNA hydroxymethylome in depressed brain

Source: National Institute of Mental Health (NIMH)

Dates: 04/01/2018-03/31/2020

**Role: Principal Investigator**

**1R01xxxxxxx****Whisler (PI)**

Title: Pharmacogenomic evaluation of drug-induced osteonecrosis of the Jaw: a multiple omics analysis

Source: National Institute of Health (NIH)

Dates: 04/01/2018-03/31/2023

**Role: Co-Investigator (10% effort)**

**ADA Junior Faculty Development Grant****Hu (PI)**

Title: A precision approach to study the total environment and gestational diabetes: harnessing the power of environmental big data

Source: American Diabetes Association

Dates: 01/01/2018-12/31/2021

**Role: Primary mentor**

**Training Program for Applied Research and Development in Genomic Medicine (Johnson)**

Source: National Institute of Health (NIH)

Dates: 09/01/2017-08/30/2022

**Role: Faculty mentor/Executive Member****Completed****1R01DK091369****Zhao (PI)**

\$1,193,562

Title: Telomere attrition and diabetes risk in American Indians

Source: National Institute of Diabetes and Digestive and Kidney Disease (NIDDK)

Dates: 09/01/11-05/31/17

**Role: Principal Investigator****1R21HL092363-01A2****Zhao (PI)**

\$402,875

Title: Genetic variations in the HPA axis and comorbidity of depression and CVD

Source: National Heart, Lung and Blood Institute (NHLBI)

Dates: 9/30/09-6/30/13

**Role: Principal Investigator****1K01AG034259****Zhao (PI)**

\$525,481

Title: Biological aging, mitochondrial variants and coronary artery disease

Source: National Institute of Aging (NIA)

Dates: 9/15/09-8/31/13

**Role: Principal Investigator****AHA 0730100N****Zhao (PI)**

\$260,000

Title: Common genetic pathways linking depression to cardiovascular disease: a twin study

Source: American Heart Association

Dates: 1/1/07-8/31/11

**Role: Principal Investigator****ACTSI-KL2****Zhao (PI)**

\$168,668

Title: Role of mitochondrial polymorphisms in CAD and adverse cardiovascular outcomes

Source: Atlanta Clinical and Translational Science Institute (ACTSI)/National Health Institute

Dates: 4/15/08-3/31/10

**Role: Principal Investigator****Oklahoma Tobacco Research Center (OTRC)****Zhao (PI)**

\$55,000

Title: Genotype-specific effect of cigarette smoking on CAD in American Indians

Source: Oklahoma Tobacco Research Center

Dates: 7/1/09-6/30/11

**Role: Principal Investigator****Emory University Heart and Vascular Center****Zhao (PI)**

\$300,000

Title: Blood and tissue-banking for heart and vascular diseases: The Emory Heart and Vascular Center's Genomic Platform

Source: Emory University Heart and Vascular Center

Dates: 7/1/07-6/30/09

**Role: Principal Investigator**

**Emory Center for Research on Symptoms Interactions and Health Outcomes**

**Zhao (PI)** \$30,000

Title: Genetic pathways in depressive symptoms susceptibility

Source: Emory University School of Nursing

Dates: 7/1/07-6/30/08

**Role: Principal Investigator**

**Emory University Research Committee**

**Zhao (PI)** \$25,000

Title: Genetic pathways in coronary artery disease susceptibility

Source: Emory University

Dates: 1/1/08-12/30/08

**Role: Principal Investigator**

**PUBLICATIONS** (\* *Corresponding author*; † *Trainee*)

1. **Zhao J**, \* Zhu Y, † Yang J, † Li L, Wu H, De Jager P, Jin P, Bennett DA. A genome-wide profiling of brain DNA hydroxymethylome in Alzheimer's disease. *Alzheimers Dement*. 2017 Jun;13(6):674-688. doi: 10.1016/j.jalz.2016.10.004.
2. Mukerjee S, Zhu Y, † Zsombok A, Mauvais-Jarvis F, **Zhao J**, Lazartigues E. Perinatal Exposure to Western Diet Programs Autonomic Dysfunction in the Male Offspring. *Cell Mol Neurobiol*. 2017 May 6. doi: 10.1007/s10571-017-0502-4. [Epub ahead of print]
3. Peng H, † Fawn Y, Cole SA, Lyle BG, Lin J, Blackburn E, Lee ET, Howard BV, **Zhao J**.\* Plasminogen activator inhibitor-1 is associated with leukocyte telomere length in American Indians: Findings from the Strong Heart Family Study. *J Thromb Haemost*. 2017 Jun;15(6):1078-1085. doi: 10.1111/jth.13689
4. Peng H, † Yeh F, de Simone G, Best LG, Lee ET, Howard BV, **Zhao J**. \* Relationship between plasma plasminogen activator inhibitor-1 and hypertension in American Indians: findings from the Strong Heart Study. *J Hypertens*. 2017 Apr 4. doi: 10.1097/HJH.0000000000001375. [Epub ahead of print].
5. Deng Y, † Zeng D, **Zhao J**, Cai J. Proportional hazards model with a change point for clustered event data. *Biometrics*. 2017 Mar 3. doi: 10.1111/biom.12655. [Epub ahead of print]
6. Li C, † Kim YK, Dorajoo R, Li H, Lee IT, Cheng CY, He M, Sheu WH, Guo X, Ganesh SK, He J, Lee J, Liu J, Hu Y, Rao DC, Tsai FJ, Koh JY, Hu H, Liang KW, Palmas W, Hixson JE, Han S, Teo YY, Wang Y, Chen J, Lu CH, Zheng Y, Gui L, Lee WJ, Yao J, Gu D, Han BG, Sim X, Sun L, **Zhao J**, Chen CH, Kumari N, He Y, Taylor KD, Raffel LJ, Moon S, Rotter JI, Ida Chen YD, Wu T, Wong TY, Wu JY, Lin X, Tai ES, Kim BJ, Kelly TN. Genome-wide association study meta-analysis of long-term average blood



pressure in east Asians. *Circ Cardiovasc Genet*. 2017 Apr;10(2):e001527. doi: 10.1161/CIRCGENETICS.116.001527

7. Hammadah M, Al Mheid I, Wilmot K, Ramadan R, Abdelhadi N, Alkhoder A, Obideen M, Pimple PM, Levantsevych O, Kelli HM, Shah A, Sun YV, Pearce B, Kutner M, Long Q, Ward L, Ko YA, Hosny Mohammed K, Lin J, **Zhao J**, Bremner JD, Kim J, Waller EK, Raggi P, Sheps D, Quyyumi AA, Vaccarino V. Telomere Shortening, Regenerative Capacity, and Cardiovascular Outcomes. *Circ Res*. 2017 Mar 31;120(7):1130-1138. doi: 10.1161/CIRCRESAHA.116.309421
8. Peng H,<sup>†</sup> Mete M, Desale S, Fretts AM, Cole SA, Lyle BG, Lin J, Blackburn E, Lee ET, Howard BV, **Zhao J**.<sup>\*</sup> Ideal cardiovascular health and leukocyte telomere length in American Indians: The Strong Heart Study. *Eur J Epidemiol* 2017 Jan;32(1):67-75. doi: 10.1007/s10654-016-0199-6
9. Mammadah M, Mheid I AI, Obideen M, Abdelhadi N, Wilmot K, Ramadan R, Alkhoder A, Pimple PM, Fang S, Awad M, Levantsevych O, Kelli HM, Bouchi Y, Murrah N, Shah A, Garcia E, Blackburn E, Sun Y, **Zhao J**, Lin J, Kim J, Waller E, Raggi P, Vaccarino V, Quyyumi Q. Shorter telomere length is associated with lower levels of circulating progenitor cells. *J Am Coll Cardiol* 2016; 67(13\_S):166 doi:10.1016/S0735-1097(16)30167-X
10. Zhao Q,<sup>†</sup> Zhu Y,<sup>†</sup> Yeh F, Lin J, Calhoun D, Cole SA, Lee ET, **Zhao J**.<sup>\*</sup> Depressive symptoms are associated with leukocyte telomere length in American Indians: findings from the Strong Heart Family Study.. *Aging (Albany NY)*. 2016 Nov 18;8(11):2961-2970. doi: 10.18632/aging.101104.
11. Zhao Q,<sup>†</sup> Zhu Y,<sup>†</sup> Best LG, Umans JG, Uppal K, Tran VT, Jones DP, Lee ET, Howard BV, **Zhao J**.<sup>\*</sup> Metabolic profiles of obesity in American Indians: the Strong Heart Family Study. *Plos One* 2016; 11(7): e0159548. doi:10.1371/journal.pone.0159548
12. Fretts AM, Howard BV, Siscovick DS, Best LG, Beresford SA, Mete M, Eilat-Adar S, Sotoodehnia N, **Zhao J**. Processed meat, but not unprocessed red meat, associated with short leukocyte telomere length in the Strong Heart Family Study. *Journal of Nutrition* 2016 Aug 24. pii: jn234922. [Epub ahead of print]
13. Zhao Q,<sup>†</sup> Zhu Y,<sup>†</sup> Cole SA, Best LG, Lin J, Blackburn E, Devereux R, Roman MJ, Lee ET, Howard B, **Zhao J**.<sup>\*</sup> Impact of Biological Aging on Arterial Aging in American Indians: Findings from the Strong Heart Family Study. *Aging (Albany NY)*. 2016; 8(8):1583-92. doi: 10.18632/aging.101013.
14. Kelly TN, Bazzano L, Ajami N, He H, **Zhao J**, Petrosino J, Correa A, He J. Gut Microbiome Associates with Lifetime Cardiovascular Disease Risk Profile among Bogalusa Heart Study Participants. *Circulation Research* 2016;119:956-964
15. Ouyang W,<sup>†</sup> An Q,<sup>†</sup> **Zhao J**, Qin H. Integrating mean and variance heterogeneities to identify differentially expressed genes. *BMC Bioinformatics*. 2016 Dec 6;17(1):497. doi: 10.1186/s12859-016-1393-y. Erratum in: *BMC Bioinformatics*. 2017 Feb 3;18(1):89.

16. Li C<sup>†</sup>, He J, Chen J, **Zhao J**, Gu D, Hixson JE, Rao DC, Jaquish CE, Gu CC, Chen J, Huang J, Chen S, Kelly TN. Genome-wide gene-sodium interaction analyses on blood pressure: the genetic epidemiology network of salt-sensitivity study. *Hypertension*. 2016; 68 (2):348-355
17. **Zhao J**,\* An Q,<sup>†</sup> Goldberg J, Quyyumi AA, Vaccarino V. Promoter methylation of glucocorticoid receptor gene is associated with subclinical atherosclerosis: a monozygotic twin study. *Atherosclerosis*. 2015 Sep;242(1):71-6
18. **Zhao J**,\* Zhu Y,<sup>†</sup> Xiong M. Genome-wide gene-gene interaction analysis for next-generation sequencing. *Eur J Hum Genet* 2015 Jul 15. doi: 10.1038/ejhg.2015.147. [Epub ahead of print]
19. Zhang M,<sup>†</sup> An Q,<sup>†</sup> Zhang Y,<sup>†</sup> Zhang X,<sup>†</sup> Lee ET, Howard BV, **Zhao J**.\* Smoking-attributable mortality in American Indians: The Strong Heart Study. *Eur J Epidemiol* 2015;30(7):553-61
20. **Zhao J**,\* Zhu Y,<sup>†</sup> Hyun N, Zeng D, Uppal K, Tran VT, Yu T, Dean J, He J, Lee ET, Howard BV. Novel metabolic markers for the risk of diabetes development in American Indians. *Diabetes Care*. 2015;38(2):220-7
21. **Zhao J**, Zhu Y,<sup>†</sup> Boerwinkle E, Xiong M. Pathway analysis with next-generation sequencing data. *Eur J Hum Genet* 2015; 23(4):507-15
22. Li S,<sup>†</sup> **Zhao J**, Wang G, Zhu Y,<sup>†</sup> Rabito F, Krousel-Wood M, Chen W, Whelton PK. Urinary triclosan concentrations are inversely associated with body mass index and waist circumference in the US general population: Experience in NHANES 2003-2010. *Int J Hyg Environ Health*. 2015;218(4):401-6
23. **Zhao J**,\* Zhu Y,<sup>†</sup> Lin J, Matsuguchi T, Blackburn E, Zhang Y,<sup>†</sup> Cole SA, Best LG, Lee ET, Howard BV. Short leukocyte telomere length predicts risk of diabetes in American Indians: The Strong Heart Family Study. *Diabetes* 2014; 63(1):354-62
24. Zhu Y,<sup>†</sup> Yang J,<sup>†</sup> Yeh F, Cole SA, Haack K, Lee ET, Howard BV, **Zhao J**.\* Joint association of nicotinic acetylcholine receptor variants with abdominal obesity in American Indians: The Strong Heart Family Study. *PloS One* 2014; 9(7): e102220. doi:10.1371/journal.pone.0102220
25. Chen S,<sup>†</sup> Lin J, Matsuguchi T, Blackburn E, Yeh F, Best LG, Devereux RB, Lee ET, Howard BV, Roman MJ, **Zhao J**.\* Short leukocyte telomere length predicts incidence and progression of carotid atherosclerosis in American Indians: the Strong Heart Family Study. *Aging (Albany NY)* 2014; 6(5):414-27
26. Chen S,<sup>†</sup> Yeh F, Lin J, Matsuguchi T, Blackburn E, Lee ET, Howard BV, **Zhao J**.\* Short leukocyte telomere length is associated with obesity in American Indians: the Strong Heart Family study. *Aging (Albany NY)*. 2014; 6(5):380-9.

27. **Zhao J**, \* Zhu Y, Uppal K, Tran VT, Yu T, Lin J, Matsuguchi T, Blackburn E, Jones D, Lee ET, Howard BV. Metabolic profiles of biological aging in American Indians: the strong heart family study. *Aging (Albany NY)* 2014; 6(3):176-86.
28. Zhu Y,<sup>†</sup> Yang J,<sup>†</sup> Li S,<sup>†</sup> Cole SA, Haack K, Umans JG, Franceschini N, Howard BV, Lee ET, **Zhao J**. \* Genetic Variants in nicotinic acetylcholine receptor genes jointly contribute to kidney function in American Indians: The Strong Heart Family Study. *J Hypertens* 2014; 32(5):1042-8.
29. **Zhao J**, \* Roman MJ, Devereux RB, Yeh F, Zhang Y,<sup>†</sup> Haack K, Best LG, Cole SA, Lee ET, Howard BV. Leukotriene haplotype × diet interaction on carotid artery hypertrophy and atherosclerosis in American Indians: The Strong Heart Family Study. *Atherosclerosis* 2014; 233:165-171
30. Yang J,<sup>†</sup> Zhu Y,<sup>†</sup> Lee ET, Zhang Y,<sup>†</sup> Cole SA, Haack K, Best LG, Devereux RB, Roman MJ, Howard BV, **Zhao J**. \* Joint associations of 61 genetic variants in the nicotinic acetylcholine receptor genes with subclinical atherosclerosis in American Indians: a gene-family analysis. *Circulation: Cardiovascular Genetics*. 2013; 6:89-96.
31. Zhu Y,<sup>†</sup> Voruganti VS, Lin J, Matsuguchi T, Blackburn E, Best LG, Lee ET, Maccluer JW, Cole SA, **Zhao J**. \* QTL mapping of leukocyte telomere length in American Indians: The Strong Heart Family Study. *Aging (Albany NY)*. *Aging (Albany NY)*. 2013;5(9):704-16
32. **Zhao J**, \* Goldberg J, Bremner JD, Vaccarino V. Association between promoter methylation of serotonin transporter gene and depressive symptoms: a monozygotic twin study. *Psychosom Med*. 2013; 75(6):523-9
33. **Zhao J**, \* Bremner JD, Goldberg J, Quyyumi AA, Vaccarino V. Monoamine oxidase a genotype, childhood trauma, and subclinical atherosclerosis: a twin study. *Psychosom Med*. 2013;75(5):471-7
34. **Zhao J**, \* Goldberg J, Vaccarino V. Leukotriene A4 hydrolase haplotype, diet and atherosclerosis: A twin study. *Atherosclerosis* 2013; 226(1):238-44
35. **Zhao J**, \* Goldberg J, Bremner JD and Vaccarino V. Global DNA methylation is associated with insulin resistance: a monozygotic twin study. *Diabetes* 2012; 61(2):542-6.
36. Yang J,<sup>†</sup> Cole SA, Haack K, Zhang Y,<sup>†</sup> Howard BV, Best LG, Devereux RB, Henderson JA, Henderson P, Lee ET and **Zhao J**. \* A gene-family analysis of 61 genetic variants in the nicotinic acetylcholine receptor genes for insulin resistance and type 2 diabetes in American Indians. *Diabetes* 2012; 61(7):1888-94
37. **Zhao J**, \* Goldberg J and Vaccarino V. Promoter methylation of the serotonin transporter gene is associated with obesity measures: a monozygotic twin study. *International Journal of Obesity* 2012; doi: 10.1038/ijo.2012.8

38. **Zhao J**,\* Forsberg CW, Goldberg J, Smith NL, Vaccarino V. MAOA Promoter methylation and susceptibility to carotid atherosclerosis: role of familial factors in a monozygotic twin sample. *BMC Med Genet* 2012 Nov 2;13:100.
39. Yang J<sup>†</sup> and **Zhao J**.\* Cumulative effect of common genetic variants predicts incident type 2 diabetes: a study of 21,183 subjects from three large prospective cohorts. *Epidemiology*. 2011 Nov 1;1(3):108
40. Patel RS, Su S, Neeland IJ, Ahuja A, Veledar E, **Zhao J**, Helgadottir A, Holm H, Gulcher JR, Stefansson K, Waddy S, Vaccarino V, Zafari AM, Quyyumi AA. The chromosome 9p21 risk locus is associated with angiographic severity and progression of coronary artery disease. *Eur Heart J*. 2010; 31(24):3017-23
41. Peng G, Luo L, Siu H, Zhu Y, Hu P, Hong S, **Zhao J**, Zhou X, Reveille JD, Jin L, Amos CI, Xiong M. Gene and pathway-based second-wave analysis of genome-wide association studies. *Eur J Hum Genet*. 2010; 18: 111–117.
42. **Zhao J**,\* Quyyumi AA, Patel R, Zafari AM, Veledar E, Onufrak S, Shallenberger LH, Jones L, Vaccarino V. Sex-specific association of depression and a haplotype in leukotriene A4 hydrolase gene. *Psychosom Med*. 2009;71(7):691-6.
43. Vaccarino V, Votaw J, Faber T, Veledar E, Murrah NV, Jones LR, **Zhao J**, Su S, Goldberg J, Raggi JP, Quyyumi AA, Sheps DS, Bremner JD. Major depression and coronary flow reserve detected by positron emission tomography. *Arch Intern Med*. 2009; 169 (18):1668-76.
44. Su S, **Zhao J**, Bremner JD, Miller AH, Tang W, Bouzyk M, Snieder H, Novik O, Afzal N, Goldberg J, Vaccarino V. Serotonin transporter gene, depressive symptoms and interleukin-6. *Circ Cardiovas Genet* 2009; 2:614-620
45. Su S, Lampert R, **Zhao J**, Bremner JD, Miller A, Snieder H, Lee F, Khan D, Goldberg J, Vaccarino V. Pleiotropy of C-reactive protein gene polymorphisms with C-reactive protein levels and heart rate variability in healthy male twins. *Am J Cardiol*. 2009; 104 (12):1748-54.
46. **Zhao J**,\* Cheema FA, Bremner JD, Goldberg J, Su S, Snieder H, Maisano C, Jones L, Javed F, Murrah N, Le NA and Vaccarino V. Heritability of carotid intima-media thickness: a twin study. *Atherosclerosis* 2008; 197:814-820
47. Su S, Snieder H, Miller AH, Ritchie J, Bremner JD, Goldberg J, Dai J, Jones L, Murrah NV, **Zhao J**, Vaccarino V. Genetic and environmental influences on systemic markers of inflammation in middle-aged male twins. *Atherosclerosis*. 2008; 200(1):213-20
48. **Zhao J**,\* Cheema FA, Reddy U, Bremner JD, Su S, Goldberg J, Snieder H, and Vaccarino V. Heritability of flow-mediated dilation: a twin study. *J Thromb Haemost* 2007; 5 (12) : 2386-2392.

49. **Zhao J**, Boerwinkle E, Xiong M. An entropy-based genome-wide transmission/disequilibrium test. *Hum Genet* 2007; 121(3-4):357-67
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**MANUSCRIPTS UNDER REVIEW OR IN PREPARATION** († Trainee; \*Corresponding author)

1. Peng H<sup>†</sup>, Zhu Y<sup>†</sup>, Goldberg J, Vaccarino V, **Zhao J**\*. DNA Methylation of Five Core Circadian Genes Jointly Contributes to Glucose Metabolism: A Gene-set Analysis in Monozygotic Twins. *Diabetes Care* (submitted)
2. Peng H<sup>†</sup>, Zhu Y<sup>†</sup>, Goldberg J, Vaccarino V, **Zhao J**\*. Childhood Trauma, HPA-axis Genes Methylation, and Depression: A Mediation Analysis in Monozygotic Twins. (submitted)
3. **Zhao J**\*, Zhu Y, <sup>†</sup> Folwer E, Bacus T, Strachan E, Roy-Byrne P. An epigenome-wide association study (EWAS) on major depression: a monozygotic discordant twin study. (Under preparation)
4. Zhu Y, <sup>†</sup> Folwer E, Bacus T, Strachan E, Roy-Byrne P, **Zhao J**\*. EWAS on alcohol consumption in a monozygotic twin sample. (Under preparation)
5. Peng H, <sup>†</sup> An Q, <sup>†</sup> Goldberg J, Vaccarino V, **Zhao J**.\* A gene-family analysis of promoter DNA methylation of circadian-related genes with inflammation: a monozygotic twin study. (Under preparation)
6. Peng H, <sup>†</sup> Zhu Y, <sup>†</sup> Gang Hu, Brantley P, **Zhao J**.\* Altered DNA methylation in response to bariatric surgery predicts diabetes remission in severely obese patients: findings from a pilot study. (Under preparation)
7. Fretts AM, Eilat-Adar S, Lin J, Matsuguchi T, Blackburn E, Lee ET, Howard BV, **Zhao J**.\* Leukocyte telomere length and physical activity in American Indians: The Strong Heart Family Study. *Eur J Epidemiol* (under review)

8. Gielen M, Hageman GJ... **Zhao J**, Kollerits B, Zeegers MP. BMI is negatively associated with telomere length: a meta-analysis of 67 cross-sectional studies. *Eur J Epidemiol* (under review)
9. Chen X, Wang Y, Leeman R, Li F, **Zhao J**. Video-assisted topographical measurement of cigarette smoking behavior: A laboratory-based exploration of the method for objective evaluation of nicotine dependence. (under review)
10. Suchy-Dicey AM, Muller C, Madhyastha T, Shibata D, Cole SA, Longstreth SA, **Zhao J**, Buchwald D. Telomere length findings of vascular brain injury and brain atrophy from cranial MRI: the Strong Heart Stroke Study. (Under preparation)
11. Zhu Y, <sup>†</sup> Folwer E, Bacus T, Roy-Byrne P, Strachan E, **Zhao J**. \* Metabolomic profiles of major depression: a monozygotic discordant twin study. (Under preparation)
12. Eric Strachan, Emily Folwer, Dedra Buchwald, Peter Roy-Byrne, **Zhao J**. Mood and Methylation Study (MMS): study design and methods in monozygotic discordant twins. (Under preparation)
13. Sullivan S, Hammadah M, Al Mheid I, Shah A, Sun Y, Kutner M, Ward L, Blackburn E, **Zhao J**, Lin J, Bremner JD, Quyyumi AA, Vaccarino V, Lewis T. Experiences of Everyday Discrimination are Associated with Shorter Leukocyte Telomere Length among Women with Coronary Artery Disease (under review)

#### SELECTED SCIENTIFIC/PROFESSIONAL MEETINGS (\* Correspondence; <sup>†</sup>Trainee)

1. **Zhao J**, Zhu Y, Eric Strachan, Emily Fowler, Tamara J. Bacus, Peter Roy-Byrne. Genome-wide profiling of DNA methylome and transcriptome in peripheral blood monocytes for major depression: a monozygotic discordant twin study. Accepted for oral presentation at the 2017 Behavioral Genetics Meeting, Oslo, Norway June 28-July 1, 2017
2. Zhu Y, Eric Strachan, Emily Fowler, Tamara J. Bacus, Peter Roy-Byrne, **Zhao J**. An Epigenomewide Association Study (EWAS) on Alcohol Consumption: A Monozygotic Twin Study. Accepted for oral presentation at the 2017 Behavioral Genetics Meeting, Oslo, Norway June 28-July 1, 2017
3. Peng H, Yeh F, Zhang Y, de Simone G, Best LG, Lee ET, Howard BV, **Zhao J**. Plasminogen Activator Inhibitor-1 Predicts the Risk of Hypertension in American Indians: Findings from the Strong Heart Study. Accepted for oral presentation at the American Heart Association Scientific Sessions, New Orleans Nov 12-16, 2016
4. Zhao Q, Zhu Y, Yeh F, Lin J, Zhang Y, Calhoun D, Cole SA, Lee ET, Howard BV, **Zhao J**. Depression Is Associated with Leukocyte Telomere Length in American Indians: Findings from the Strong Heart Family Study. Accepted for poster presentation at the American Heart Association Scientific Sessions, New Orleans Nov 12-16, 2016
5. Hu Z, Wan P, Zhu Y, <sup>†</sup> Bennett DA, **Zhao J**, Xiong M. A novel causal methylation network approach to Alzheimer's disease. Human Genome Meeting 2016, Houston, February 28-March 2, 2016



6. Lin N, Wang P, Zhu Y,<sup>†</sup> **Zhao J**, Calhoun VD, Xiong M. Integrative large-scale causal network analysis of brain imaging and genomic data and its application to schizophrenia. Human Genome Meeting 2016, Houston, February 28-March 2, 2016
7. Peng H,<sup>†</sup> Fawn Y, Cole SA, Best LG, Roman MJ, Lee ET, Howard BV, **Zhao J**.<sup>\*</sup> Prospective Association of Allostatic Load with Incident CVD in American Indians: The Strong Heart Study. EPI/Lifestyle, American Heart Association, Phoenix, February 29-March 4, 2016.
8. Li C,<sup>†</sup> He J, Hixson JE, Gu D, Rao DC, Shimmin LC, Huang J, Gu CC, Chen J, Li J, Chen J, **Zhao J**, Kelly KN. Genomewide Gene-Potassium Interaction Analyses on Blood Pressure: the GenSalt study. EPI/Lifestyle, American Heart Association, Phoenix, February 29-March 4, 2016.
9. Kelly TN, Ajami NJ, Bazzano LA, **Zhao J**, He J. Gut microbiota diversity and specific microbial genera associate with cardiovascular disease risk: Findings from the Bogalusa Heart Study. EPI/Lifestyle, American Heart Association, Phoenix, February 29-March 4, 2016.
10. An Q,<sup>†</sup> Zhu Y,<sup>†</sup> Goldberg J, Vaccarino V, **Zhao J**.<sup>\*</sup> Alterations in DNA methylation of circadian-related genes are associated with metabolic traits: a gene promoter-based and gene-set analysis in monozygotic twins. EPI/Lifestyle, American Heart Association, Phoenix, February 29-March 4, 2016.
11. Pimple PM, Wilmot K, Mheid IA, **Zhao J**, Lin J, Blackburn E, Rooks C, Goetz M, Sun Y, Bremner JD, Quyyumi AA, Vaccarino V. Adherence to the Mediterranean diet is associated with longer telomere length in patients with coronary artery disease. EPI/Lifestyle, American Heart Association, Phoenix, February 29-March 4, 2016.
12. **Zhao J**,<sup>\*</sup> Zhu Y, Xiong M. A novel quadratically regularized canonical correlation analysis for genetic pleiotropic analysis of multiple phenotypes. The Human Genome Meeting, Houston, February 28 – March 2, 2016
13. Zhu Y,<sup>†</sup> An Q,<sup>†</sup> Best, LG, Lee ET, Howard BV, Devereux RB, Roman MJ, **Zhao J**.<sup>\*</sup> Novel metabolic markers for the risk of carotid plaque progression in American Indians. EPI/Lifestyle, American Heart Association, Baltimore, March 3-6, 2015.
14. An Q,<sup>†</sup> Vaccarino V, Goldberg J, **Zhao J**.<sup>\*</sup> Promoter Methylation of the MAOA Gene Is Associated with Fasting Plasma Glucose: A Monozygotic Twin Study. EPI/Lifestyle, American Heart Association, Baltimore, March 3-6, 2015.
15. **Zhao J**,<sup>\*</sup> Mete M, Desale S, Fretts AM, Cole SA, Best LG, Lin J, Matsuguchi T, Blackburn E, Lee ET, Howard BV. Life's simple 7 and telomere length in American Indians. EPI/Lifestyle, American Heart Association, Baltimore, March 3-6, 2015.
16. Zhu Y,<sup>†</sup> He J, Best LG, Lee ET, Howard BV and **Zhao J**.<sup>\*</sup> Metabolic predictors of type 2 diabetes in American Indians: The Strong Heart Family Study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Francisco, March 18-21, 2014.
17. **Zhao J**,<sup>\*</sup> Zhu Y,<sup>†</sup> He J, Lin J, Matsuguchi T, Blackburn E, Lee ET, Howard BV. Metabolic profiles of biological aging in American Indians: The Strong Heart Family Study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease

Epidemiology and Prevention, American Heart Association, San Francisco, March 18-21, 2014.

18. Chen S, † Yeh F, Lin J, Matsuguchi T, Blackburn E, Lee ET, Howard BV, **Zhao J.** \* Short leukocyte telomere length is associated with obesity in American Indians: The Strong Heart Family Study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Francisco, March 18-21, 2014.
19. Li S, † Zhu Y, † Wang G, Yun M, McLachlan JA, Chen W, He J, Whelton PK, **Zhao J.** \* Urinary triclosan concentrations are associated with body mass index and waist circumference in US population, NHANES 2003-2010. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Francisco, March 18-21, 2014.
20. **Zhao J.** \* Zhu Y, † Xiong M. Gene-gene interaction analysis for next-generation sequencing. The 63<sup>rd</sup> Annual Meeting of the American Society of Human Genetics in Boston, October 22-26, 2013. (*Platform presentation*)
21. Chen S, † Roman RJ, Yeh F, Lin J, Matsuguchi T, Blackburn E, Devereux RB, Lee ET, Howard BV, and **Zhao J.** \* Prospective association of leukocyte telomere length and incident carotid atherosclerosis in American Indians. The American Heart Association Scientific Session, Dallas, Nov 16-20, 2013. (*Platform presentation, this abstract has been interviewed by the American Heart Association*)
22. Zhu Y, † Lee ET, Cole SA, Haack K, Best LG, Howard BV, **Zhao J.** \* Genetic variants involved in telomere maintenance and type 2 diabetes in American Indians: a pathway association analysis. The American Heart Association Scientific Session, Dallas, Nov 16-20, 2013.
23. Zhu Y, † Lee ET, Cole SA, Haack K, Best LG, Howard BV, **Zhao J.** \* Joint association of 31 mitochondrial variants with type 2 diabetes: The Strong Heart Family Study. The 63<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Boston, Oct 22-26, 2013.
24. Yang J, † Zhu Y, † Cole SA, Haack K, Howard BV, Best LG, Mary RJ, Devereux RB, Lee ET and **Zhao J.** \* Joint impact of 61 genetic variants in seven nicotinic acetylcholine receptor genes on subclinical atherosclerosis in American Indians: a gene-set analysis. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, New Orleans, March 19-22, 2013 (*Platform presentation, Hot Of Press*)
25. **Zhao J.** \* Zhu Y, † Xiong M. A smooth functional principle component analysis of next generation sequencing data. The 62<sup>th</sup> Annual Meeting of the American Society of Human Genetics, San Francisco, Nov 6-10, 2012. (*Platform presentation*)
26. **Zhao J.** \* Goldberg J and Vaccarino V. Promoter methylation of glucocorticoid receptor gene is associated with subclinical cardiovascular disease: a monozygotic twin study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Diego, March 13-16,

2012. (*Platform presentation. This abstract won the Rogers R. Williams Award for Genetic Epidemiology, presented by the American Heart Association, 2012*)

27. Yang J,<sup>†</sup> Cole SA, Haack K, Howard BV, Best LG, Mary RJ, Devereux RB, Lee ET and **Zhao J.** \* Joint impact of 61 genetic variants in seven nicotinic acetylcholine receptor genes on subclinical atherosclerosis in American Indians: a gene-set analysis. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Diego, March 13-16, 2012
28. Yang J,<sup>†</sup> Cole SA, Haack K, Howard BV, Best LG, Roman RJ, Devereux RB, Lee ET and **Zhao J.** \* A pathway analysis of 32 genetic variants in leukotriene genes and subclinical atherosclerosis in American Indians: the Strong Heart Family Study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Diego, March 13-16, 2012.
29. Yang J,<sup>†</sup> Cole SA, Haack K, Howard BV, Best LG, Devereux RB, Lee ET and **Zhao J.** \* Gene and pathway-based analysis of 61 genetic variants in the nicotinic acetylcholine receptor genes and insulin resistance in American Indians. The 61<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011
30. **Zhao J.** \* Cowan LD, Yang J,<sup>†</sup> Zhang Y,<sup>†</sup> Cole SA, Haack K, Howard BV, Lee ET. Leukotriene haplotype, diet and insulin resistance: the Strong Heart Study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Atlanta, March 22-25, 2011
31. Yang J,<sup>†</sup> Cowan LD, Zhang Y,<sup>†</sup> Cole SA, Haack K, MacCluer JW, Howard BV, Lee ET, **Zhao J.** \* NOS3 genotype, dietary intake and insulin resistance: The Strong Heart Family Study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Atlanta, March 22-25, 2011
32. Yang J,<sup>†</sup> Zhang Y,<sup>†</sup> Cowan LD, Cole SA, Haack K, MacCluer JW, Howard BV, Lee ET and **Zhao J.** \* Cumulative association of 62 genetic variants in a smoking-metabolizing pathway with insulin resistance in American Indians: The Strong Heart Family Study. The Nutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Atlanta, March 22-25, 2011
33. **Zhao J.** \* Forsberg CF, Yang J,<sup>†</sup> Goldberg J, Smith NL, Vaccarino V. MAOA methylation is associated with subclinical atherosclerosis in a monozygotic twin sample. American Heart Association Scientific Session, Chicago, IL, Nov 13-17, 2010
34. **Zhao J.** \* Wu X, Zhu Y,<sup>†</sup> Xiong M. A novel statistic for testing genetic interactions between linked loci. The 60<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Washington, DC, Nov 2-6, 2010
35. Yang J,<sup>†</sup> Bouzyk M, Goldberg J, Vaccarino V, **Zhao J.** \* Interaction between monoamine oxidase A gene polymorphism and childhood emotional abuse on susceptibility to early

atherosclerosis: a twin study. The 60<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Washington, DC, Nov 2-6, 2010

36. **Zhao J**, \* Goldberg J, Bremner JD, Jones L, Bouzyk M, Tang W, Vaccarino V. Dietary intake modifies the effect of leukotriene A4 hydrolase gene on subclinical atherosclerosis. The 49th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Palm Harbor, FL, March 10-14, 2009 (Platform presentation. *This abstract was selected as Finalist for the Sandra Daugherty Award for Excellence in Cardiovascular Disease or Hypertension Epidemiology, presented by the American Heart Association, 2009*)
37. **Zhao J**, \* Goldberg J, Su S, Bouzyk M, Tang W, Bremner JD, Jones L, Murrah N, Vaccarino V. Leukotriene A4 hydrolase gene polymorphism is associated with subclinical atherosclerosis. The 49th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Palm Harbor, FL, March 10-14, 2009
38. Su S, **Zhao J**, \* Bremner JD, Miller AH, Bouzyk M, Snieder H, Goldberg J, Vaccarino V. haplotypes of serotonin transporter gene associated with both depressive symptoms and interleukin-6 in middle-aged males: the twins heart study. The 49th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Palm Harbor, FL, March 10-14, 2009
39. **Zhao J**, \* Bremner JD, Bouzyk M, Tang W, Goldberg J, Afzal N, Murrah N, Jones L, Vaccarino V. Tryptophan hydroxylase gene haplotypes modify the effect of childhood emotional abuse on symptoms of depression, American Heart Association Scientific Session, Orlando, FL, Nov 14-18, 2009
40. **Zhao J**, \* Riyaz Patel,<sup>†</sup> A. Maziar Zafari, Viola Vaccarino, Arshed A. Quyyumi. A potential common genetic pathway linking depression to cardiovascular disease. The 58<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Philadelphia, Nov 11-15, 2008
41. Luo L, Peng G, Siu H, Zhu Y,<sup>†</sup> Hu P, Hong S, **Zhao J**, Zhou X, Reveille J, Amos C, Jin L, Xiong M. Gene and pathway-based analysis second wave of GWAS. The 58<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Philadelphia, Nov 11-15, 2008
42. **Zhao J**, \* Quyyumi AA, Patel R, Qureshi I, Warren F, Zafari AM, Veledar E, Onufrak S, Gulcher JR and Vaccarino V. Gender-Specific Association of Depression and a Haplotype in Leukotriene A4 Hydrolase Gene. The 48th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Colorado Springs, CO, March 13-15, 2007
43. Veledar E, Narayan V, Wenger N, **Zhao J**, Shaw L, Wilson P, Vaccarino V. Trends in Coronary Heart Disease (CHD) Incidence and Mortality Rates in US Women. The 48th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Colorado Springs, CO, March 13-15, 2007

44. **Zhao J**, \* Cheema FA, Bremner JD, Goldberg J, Su S, Snieder H, Maisano C, Jones L, Murrah N and Vaccarino V. Heritability of carotid intima-media thickness: a twin study. American Heart Association Annual Meeting, Chicago, Illinois, Nov 12-15, 2006 (*Platform presentation. This abstract won the Elizabeth Barrett-Connor Research Award in Epidemiology for Young Investigator, presented by the American Heart Association, 2006*)
45. **Zhao J**,\* Cheema FA, Reddy U, Bremner JD, Su S, Goldberg J, Snieder H, and Vaccarino V. Heritability of flow-mediated dilation: a twin study. The 47th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Orlando, FL, Feb 28-Mar 3, 2006
46. **Zhao J**, Jin L and Xiong M. Nonlinear tests for genome-wide association studies. The 55th Annual Meeting of the American Society of Human Genetics, Salt Lake City, Utah, Oct 25-29, 2005
47. Wang Y, **Zhao J**, Zhou X, Wang W, Jin L and Xiong MM(2005) Identification of genetic interaction networks. The 55th Annual Meeting of the American Society of Human Genetics, Salt Lake City, Utah, Oct 25-29, 2005
48. Xiong M, **Zhao J**, Boerwinkle E and Amos C. Nonlinear transmission/disequilibrium test. The 55th Annual Meeting of the American Society of Human Genetics, Salt Lake City, Utah, Oct 25-29, 2005
49. **Zhao J** and Xiong M. Global test for genome-wide association studies. The American Journal of Human Genetics, A511. The 54th Annual Meeting of the American Society of Human Genetics, Toronto, Ontario, Canada, 2004
50. Xiong M, **Zhao J**, Boerwinkle E. Dynamic models for quantitative genetics. The American Journal of Human Genetics, A511. The 54th Annual Meeting of the American Society of Human Genetics, Toronto, Ontario, Canada, Oct 26-30, 2004
51. Zhou X, **Zhao J**, Arnett FC, Xiong M. Candidate pathway approach to genetic studies of complex traits. The 53th Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, Nov 4-8, 2003
52. Xiong M and **Zhao J**. Genetic and transcriptional analysis of metabolic networks. The 53th Annual Meeting of the American Society of Human Genetics, Nov 4-8, Los Angeles, CA, Nov 4-8, 2003
53. Li Y, Liu L, **Zhao J**, Zuo J, Fang F. *Pank4*, a novel pantothenate kinase gene is a candidate gene for type 2 diabetes mellitus. The 53th Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, 2003
54. Wu G, **Zhao J**, Yang C, Wang H, Zuo J, Wang Y, Liu Z, Zhang Y, Shen Y, Qiang B, Huang W, Zhu C, Fang F. Association analysis of genetic polymorphisms in *sac*, *pank4*, *casp9*, and *cdc22* genes with type 2 diabetes in Han Chinese of Northern China. The 53th

Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, Nov 4-8, 2003

55. **Zhao J** and Xiong M. Genetic analysis of function-valued traits. The 53th Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, Nov 4-8, 2003
56. **Zhao J** and Xiong M. Unbiased quantitative population association test. The 52th Annual Meeting of the American Society of Human Genetics, Baltimore, Maryland, Oct 15-19, 2002
57. Sun H, **Zhao J**, Du W, Wang H, Zuo J, Qiang B, Shen Y, Yao Z, Huang W, Chen Z, Xiong M, Fang F. SNP analysis of candidate genes associated with type 2 diabetes in Chinese Han population. The 52th Annual Meeting of the American Society of Human Genetics, Baltimore, Maryland, Oct 15-19, 2002
58. **Zhao J** and Xiong M. The generalized  $T^2$  test for biomarker identification using gene expression data. The 51th Annual Meeting of the American Society of Human Genetics, San Diego, CA, Oct 12-16, 2001
59. Xiong M, **Zhao J**, Li J, E Boerwinkle. Dynamic models for mapping quantitative traits with time-dependent genetic effects. The 51th Annual Meeting of the American Society of Human Genetics, San Diego, CA, Oct 12-16, 2001
60. Xiong M, **Zhao J**, Jin L, Boerwinkle E. Fine-scale mapping of quantitative traits loci by internal mapping in human population. The 50<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Philadelphia, PA, Oct 3-7, 2000
61. **Zhao J**, Amos C, Boerwinkle E, Xiong M. Multiple-marker locus and multiple trait-locus linkage disequilibrium mapping of quantitative trait loci with epistasis. The 50<sup>th</sup> Annual Meeting of the American Society of Human Genetics, Philadelphia, PA, Oct 3-7, 2000
62. **Zhao J**, Xiong M, Huang W, Wang H, Zuo J, Chen Z, Qiang B, Zhang ML, Du WN, Chen JL, Ding W, Yuan WT, Zhao Y, Xu HY, Jin L, Li YX, Sun Q, Liu QY, Fang FD. Type 2 diabetes susceptibility loci maps on chromosomes 1 and 20 in Chinese Han families. The 49<sup>th</sup> Annual Meeting of the American Society of Human Genetics, San Francisco, CA, Oct 19-23, 1999

### ***INVITED TALKS***

- 4/8/2016      *Novel ‘Omics’ Biomarkers for Human Complex Diseases: Genomics, Epigenomics, Transcriptomics, and Metabolomics*  
 Department of Epidemiology & Community Health, University of Minnesota, Minneapolis, MN
- 3/12/2015    *Novel Biomarkers for CVD and its Risk Factors*  
 Emory University School of Medicine, Atlanta, GA

- 6/18/2015 *Brain DNA hydroxymethylome in Alzheimer's disease: a pilot study*  
Rush University Medical Center, Chicago, IL.
- 11/20/2014 *Novel 'omics' markers for CVD, diabetes and their risk factors*  
Department of Preventive Medicine, Northwestern University, Chicago, IL
- 7/16/2014 *Metabolomic profiling of CVD and diabetes: Findings from American Indians*  
Chinese Heart Conference, Beijing, China
- 9/4/2013 *Telomeres and epigenetic factors in CVD risk*  
Department of Biostatistics, University of North Carolina, Chapel Hill, NC
- 3/12/2013 *Biological aging and diabetes risk in American Indians*  
Department of Biostatistics, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA
- 3/28/2013 *Genetic and epigenetic determinants for CVD and type 2 diabetes*  
Hayward Genetics Center, Tulane University School of Medicine, New Orleans, LA
- 4/16/2012 *Genetic mechanisms in Metabolic Disorders*  
Emory University School of Public Health, Atlanta, GA
- 9/6/2010 *Genetics of Type 2 Diabetes and Its Risk Factors*  
School of Medicine, University of Oklahoma HSC, Oklahoma City, OK
- 6/25/2009 *Genetic Determinants of Type 2 Diabetes and Its Related Phenotypes*  
Clinical Endocrinology and Metabolism Forum, Chinese Academy of Medical Science, Beijing, China
- 9/4/2009 *Genome-wide Linkage and Association Studies of Type 2 Diabetes*  
Endocrinology Research Conference  
University of Oklahoma Health Science Center, Oklahoma City, OK
- 10/16/2008 *Genetic Linkage and Association Analysis for Human Complex Disorders*  
Cardiovascular Research Institute, Morehouse School of Medicine, Atlanta, GA
- 3/13/2008 *Genetic Susceptibility to Coronary Artery Disease*  
Division of Biostatistics and Epidemiology  
Medical University of South Carolina, Charleston, SC

**PROFESSIONAL SERVICE****National*****NIH Study Sections***

- 07/18/2016 at NEI Meeting 2016/10 ZEY1-VSN-02
- 02/16/2017 at NIDDK Meeting 2017/05 ZDK1-GRB-2-M1
- 02/17/2017 at NIDDK Meeting 2017/05 ZDK1-GRB-2-M2
- 03/21/2017 at NHLBI Meeting 2017/05 ZHL1-CSR-I-M1
- 04/06/2017 at NIEHS Meeting 2017/05 ZES1-LWJ-K-R
- 06/01/2017 at NIDDK Meeting 2017/10 ZDK1-GRB-2-O1
- 06/02/2017 at NIDDK Meeting 2017/10 ZDK1-GRB-2-O2
- MESH Study section, 2015
- KNOD Study Section, 2015
- IMST-R Computational Epigenomics Study Section, 2014
- Tobacco Centers of Regulatory Science (TCORS), 2013
- The Clinical and Integrative Cardiovascular Sciences (CICS), 2011-2014
- The Biomedical Computing and Health Informatics (BCHI), 2011-2012
- Special Emphasis - Research on Gulf War Veterans' Illnesses, 2011-2012
- Small Business Innovation Research (SBIR), 2012

***American Heart Association***

- Abstract reviewer, EPI/NPAM Scientific Sessions, 2013
- Abstract reviewer, EPI/NPAM Scientific Sessions, 2014
- Abstract reviewer, EPI/NPAM Scientific Sessions, 2015

***Peer-reviewed journal reviewer (since 2014, partial list)***

Diabetes; Diabetes Care; Diabetologia; Circulation Cardiovascular Genetics; Atherosclerosis; Blood; Obesity; Aging; International Journal of Obesity; American Journal of Human Genetics; American Journal of Epidemiology; International Journal of Epidemiology; Europe Journal of Human Genetics; American Journal of Medical Genetics; Genetics; Epigenetics; Clinical Epigenetics; Human Genetics; BMC Genetics; BMC Genomics; Human Heredity; Bioinformatics; Genetic Epidemiology; Metabolism, Genomics, Genome Research; Biological Psychiatry; Molecular Psychiatry; PLOS One; PLOS Genetics; PLOS Medicine; PLOS Computational Biology; Statistical Applications in Genetics and Molecular Biology; Molecular Biology Reports; Schizophrenia Research, etc



**University of Florida**

- 2016 – present      ***Chair, Genetic Epidemiology Faculty Search Committee***  
Department of Epidemiology, University of Florida, Gainesville, FL
- 2016 – present      ***Faculty Search Committee***  
Department of Epidemiology, University of Florida, Gainesville, FL
- 2016 – present      ***Curriculum Committee***  
Department of Epidemiology, University of Florida, Gainesville, FL
- 2016 – present      ***TAC - TLI Advisory Committee***  
CTSI, University of Florida, Gainesville, FL

**Tulane University**

- ***Faculty Search Committee***  
Department of Epidemiology, School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA, 2015, 2016
- ***Appointment, Promotion and Tenure (APT) Committee***  
Tulane University School of Public Health and Tropical Medicine, LA, 2014-present
- ***Nominating Committee for the Faculty Reelections***  
Tulane University School of Public Health and Tropical Medicine, LA, 2015-present
- ***MS in Outcomes and Comparative Effectiveness Program***  
Mentor and Co-Lead, Tulane University School of Public Health and Tropical Medicine, LA, 2015-present
- ***Grant reviewer***  
The ADA Pathway competition panel, Tulane University, 2013

**OUHSC**

- ***Senator***  
Faculty Senate, University of Oklahoma Health Science Center, OK, 2011
- ***Committee Member***  
Professional Development Committee, University of Oklahoma Health Science Center, OK, 2010-2012

**Other**

2015-present    **Member, Strong Heart Study (SHS) Steering Committee**