

CURRICULUM VITAE

ZHAO CHEN, PhD, MPH

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Division of Epidemiology and Biostatistics
Mel & Enid Zuckerman College of Public Health
University of Arizona
1295 N Martin
Tucson, AZ 85724-5211
P.O. Box 245211
Phone: (520) 626-9011
Fax: (520) 626-9900
E-mail: zchen@u.arizona.edu

CHRONOLOGY OF EDUCATION

- 1983 Beijing Normal University, Beijing China, **B.S.**, (Biology)
- 1985 Graduate School, Academic Sinica, Beijing China, **M.S.**, (Physical Anthropology)
Thesis Director: Prof. Rukang Wu
Thesis Title: The growth of 2-6 years old kindergartner in Beijing.
- 1995 University of Arizona, Tucson, **M.P.H.**, (Public Health Nutrition)
Internship Director: Dr. Douglas Taren
Report Title: Needs Assessment for Senior Citizens in the Flowing Wells Neighborhood, Tucson
- 1996 University of Arizona, Tucson, **Ph.D.**, (Physical Anthropology)
Dissertation Director: Dr. William A. Stini
Dissertation Title: The Relationship between Bone Mass, Body Composition, Nutrient Intake, and Physical Activity Level in Healthy Postmenopausal Women
- 1996-1997 University of Arizona, Tucson, **Postdoctoral Training** (Epidemiology)

CONTINUING EDUCATION

- 1998 The New England Epidemiology Institute Summer Program at Tufts Univ.
Courses: The Biology and Epidemiology of Cancer
 Epidemiologic Data Analysis; Logistic Regression Modeling
 Novel Epidemiologic Designs for Sudden-Onset Events
- 1999 The 17th Annual Graduate Summer Institute of Epidemiology & Biostatistics at Johns Hopkins School of Hygiene & Public Health
Courses: Outcomes and Effectiveness Research

Regression Analysis in Public Health Research

- 2000 The 18th Annual Graduate Summer Institute of Epidemiology & Biostatistics at Johns Hopkins School of Hygiene & Public Health
Course: Survival Analysis
- 2001 The 19th Annual Graduate Summer Institute of Epidemiology & Biostatistics at Johns Hopkins School of Hygiene & Public Health
Courses: Data Analysis Workshop
Molecular Biology; Genetic Epidemiology

CHRONOLOGY OF EMPLOYMENT

- 1985 - 1987 Research Associate, Section of Physical Anthropology, IVPP, Academic Sinica, Beijing China
- 1988 - 1990 Graduate Teaching and Research Assistant, Department of Anthropology, University of Arizona, Tucson
- 1991 - 1996 Graduate Research Associate, Department of Anthropology, University of Arizona, Tucson
- 1996 - 1997 Research Associate, Section of Epidemiology, Arizona Prevention Center, College of Medicine, University of Arizona, Tucson
- 1996 - 2001 Member, Section of Osteoporosis, Arizona Arthritis Center, College of Medicine, University of Arizona, Tucson.
- 1997 - 1999 Research Assistant Professor, Section of Epidemiology, Arizona Prevention Center, College of Medicine, University of Arizona, Tucson.
- 1998 - Now Member, Cancer Prevention and Control, Arizona Cancer Center.
- 2000 -2003 Faculty, Interdisciplinary Degree Program, Epidemiology, University of Arizona.
- 2000 -2004 Assistant Professor of Public Health, Division of Epidemiology and Biostatistics, Mel and Enid Zuckerman Arizona College of Public Health, University of Arizona.
- 2002 - 2007 Core faculty, Arizona Geriatric Education Center, Arizona Center on Aging, University of Arizona.
- 2003-2005 Director of Epidemiology Concentration, Master of Public Health, Mel and Enid Zuckerman Arizona College of Public Health, University of Arizona.
- 2004- 2009 Associate Professor of Public Health, Division of Epidemiology and Biostatistics, Mel and Enid Zuckerman College of Public Health, University of Arizona (tenured in 2005).

- 2006-2007 Chair, Graduate Program of Public Health, Mel and Enid Zuckerman College of Public Health, University of Arizona.
- 2006- Now Faculty member of the Statistics Graduate Interdisciplinary Program, University of Arizona.
- 2006- Now Member, Arizona Arthritis Center, University of Arizona
- 2006- Now Affiliate Faculty, Center for Physical Activity and Nutrition, University of Arizona
- 2008- Now Member, Southwest Environmental Health Sciences Center, College of Pharmacy, University of Arizona
- 2008- Now Director, Division of Epidemiology and Biostatistics. Mel and Enid Zuckerman College of Public Health, University of Arizona
- 2009-Now Professor of Public Health, Division of Epidemiology and Biostatistics, Mel and Enid Zuckerman College of Public Health, University of Arizona
- 2009-Now Affiliated professor, School of Anthropology, University of Arizona
- 2011-Now Co-director, Confucius Institute at the University of Arizona

HONORS & AWARDS

- 1990 Graduate Academic Award, University of Arizona
- 1991 Graduate Academic Award, University of Arizona
- 1992 Graduate Academic Award, University of Arizona
- 1996-1997 Osteoporosis Fellowship, Arizona Arthritis Center, University of Arizona
- 1997-2003 Career Development Award, National Institution of Health
- 2001-2003 Junior Faculty Awards for participating in the annual meeting of gender-based research by the Society for Women's Health Research
- 2006 - Now Member of the Alpha Nu Chapter of Delta Omega
The National Public Health Honorary Society
- 2010 Alumnus of the Year, Mel and Enid Zuckerman College of Public Health, University of Arizona
- 2011 Excellence in Research Award, Mel and Enid Zuckerman College of Public Health

SERVICE/OUTREACH

➤ **Local/State**

- 1996 – 2003 Member, Seniors & Family Resource and Wellness Centers Comm.
- 1999 - 2001 Member, Arizona Osteoporosis Coalition Steering Comm.
- 1999 - 2001 Chair, Finance Committee of the Arizona Osteoporosis Coalition
- 1999 - 2001 Member, Data Committee of the Arizona Osteoporosis Coalition
- 2000 - 2001 Member, Grant Review Committee for the Bureau of Community

and Family Health Services Office of Prevention and Health Promotion, Arizona Department of Health Services

1999 - 2003 Public Education (see presentations)

2001 - 2002 Member of the Arizona Osteoporosis Coalition Board

2003 - 2004 Reviewer, Public Health Section of the Arizona Geriatrics Society Journal

2007 - Now State Falls Prevention Sub-Committee (FPSC) Of the Social, Health & Alzheimer's Committee Governor's Advisory Council on Aging, Arizona

2008 Member for the Arizona State Public Health System Assessment for the National Public Health Performance Standards Program

2008 Community outreach: Presentation on Taichi and Bone Health, Quail Greek, Green Valley, Arizona

2008 Community outreach: Health Fair, Quail Greek, Green Valley, Arizona (provide body composition assessment and bone health information)

2008 Community outreach: Presentation on Bone and Breast Health, organized by Tucson Sino Choir

2008 Community outreach: Presentation on Healthy Bones, organized by Tucson Chinese Culture Center

2008-2009 Community Profile Committee for the South Arizona Affiliate, Susan G. Komen for the Cure

2009 AHEC imitative workgroup: focus on Health Promotion and Disease Prevention Needs and Assets initiative in the Yuma region

2009 Community outreach: Presentation on BMI and Health, Quail Greek, Green Valley, Arizona

2009 Community outreach: Health Fair, Quail Greek, Green Valley, Arizona (provide body composition assessment and bone health information)

2011 Scientific member for the community profile by the Susan G. Komen Southern Chapter.

➤ **National/International**

1998 - 2001 Consultant for magazine "U. S. Healthy Life".

1999 - 2005 Member, the Calcium/Vitamin D Osteoporosis Advisory Committee of The Women's Health Initiative.

1999 - 2000 Editor, Chinese Journal of Osteoporosis.

2000 - 2003 Reviewer, Cancer Epidemiology, Biomarkers & Prevention.

2000 - 2003 Chair of Working Group on Alternative Treatments for Osteoporosis, International Chinese Hard Tissue Society

2001 - 2004 Member, the Special Population Advisory Committee of the Women's Health Initiative.

2001 - 2003 Member, the Aging Working Group, Women's Health Initiative.

2003 -2004 Reviewer, Asian Journal of Andrology

2004 Reviewer, European Journal of Clinical Nutrition

2004 Member, NIH special emphasis panel for mentored patient-oriented research career development, National Institute of Arthritis, Musculoskeletal and Skin Diseases

2004 Member, Susan G. Komen Breast Cancer Foundation Postdoctoral Fellowship Study Section.

2004 Reviewer, Journal of National Institute of Cancer

2004 Book Reviewer, Epidemiology of Aging (Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, MA 01776)

2005 Reviewer, Cancer Epidemiology, Biomarkers & Prevention

2005 Member, National Institute of Aging Review Group for the Reverse Site Visit of the ISALES P01 (July 7 & 8)

2005 Member, National Institute of Arthritis and Musculoskeletal and Skin Diseases Special Grant Review Committee (July 11 & 12)

2005 Reviewer for Current Medical Research and Opinion

2005- Now Regular Member of the Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (Oct 17-18)

2005 Reviewer for NIH Special Emphasis Panel/Scientific Review Group ZRG1 HOP-G (02) (Nov 18)

2005 Reviewer for NIH Special Emphasis Panel (ZRG1 MOSS) (Nov 30)

2005 American School of Public Health (workforce for competencies in MPH)

2005- Now Reviewer for current medical research and opinion

2006 Regular Member of the Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (Feb 23-24, Oct 25-26)

2006 Reviewer for the NIH Special Emphasis Panel (ZRG1 HOP B02M) (Nov 27)

2006 Reviewer for the NIH Special Emphasis Panel (ZRG1 MOSS-1) (Nov 28)

2006 International reviewer for Canadian Institutes of Health Research (Dec)

2006 Reviewer for International Journal for Vitamin and Nutrition Research (Sep 2006)

2007 Regular Member of the NIH Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (Feb22-23)

2007 Reviewer for the NIH Special Emphasis Panel (ZRG1 HOP K02) (Feb 23)

2007 Reviewer for the NIAMS Special Emphasis Panel (ZAR1 CHW-M (M1)): Women's Health and Osteoporosis (March 13)

2007 Regular Member of the NIH Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (June 21-22)

2007- Now Member of the International Advisory Board of Current Medical Research and Opinion (CMRO) (journal)

2007 Member of the NIH Neurological Aging, and Musculoskeletal Epidemiology (NAME) Special Panel Meeting (July 27)

2007-Now Member of the osteoporosis working group in the Cardiovascular Health Study (CHS).

2007 Moderator, Concurrent Oral Session 9, Epidemiology I: Hip Fractures. American Society of Bone and Mineral Research 29th Annual Meeting, September 2007, 16-19, Honolulu, Hawaii.

2007 Deputy chair, The NIH Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (October 18-19)

2008 Regular Member of the NIH Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (Feb12-13).

2008 Reviewer, NIAMS/NIH Small Research Grants Review (ZAR1 EHB-H (M1)) (March 20)

2008 Reviewer, Special Emphasis Panel on Skeletal Muscle and Exercise Physiology (ZRG1 MOSS_L (07) (March 20)

2008 Regular Member of the NIH Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (Oct 6-7).

2008 NIAMS R03 small grant project review. ZAR1 EHB-D M1 1 (Nov 20).

2008 Reviewer for Susan G. Komen, NBLP (Dec 2)

2008-Now Sarcopenia Workgroup for NIH foundation

2009-now Women's Health Initiative Workgroup on Bone Fractures
 2009-now Women's Health Initiative Workgroup on Ethnicity
 2009 Regular Member of the NIH Neurological Aging, and Musculoskeletal Epidemiology (NAME) Study Section (Feb 3-4).
 2009 NIH Reviewer for Challenge Grant (June)
 2009 Reviewer for Genome Medicine
 2009 Reviewer for Ethnicity and Health
 2009 Editing Board Member for Chinese Journal of Anthropology (人类学报) Beijing, China
 2009 Reviewer for Susan G. Komen
 2010 NIH reviewer for Member Conflict: NAME and IRAP (Teleconference) ZRG1 PSE-E (02) M 02/10/2010
 2010 NIH reviewer for National Institute of Arthritis and Musculoskeletal and Skin Diseases Special Emphasis Panel ZAR1 CHW (M2) 02/16/2010
 2010 NIH Program (PhenX project) Skin, Bone, Muscle, and Joint Working Group
 2010 Chinese Body Composition Measurement Workshop (Organized by Chinese Society of Anatomical Sciences between Jan 8 and Jan 15, 2010, Jingzhou, Liaoning, China). Workshop Director.
 2011 Advanced Body Composition Workshop (Organized by the Chinese Society for Anatomical Sciences, August 5-8, 2011, Guiyan, Guizhou, China), Workshop Director.
 2011 Reviewer for the NIAMS P60 MCRC review meeting. November 29-30, 2011. Washington DC.

➤ **Departmental/College/University Committees**

1996 - 2001 Member, the Arizona Prevention Center and Arizona Arthritis Center Osteoporosis Prevention Program
 1998 - Now Member, Cancer Prevention and Control Section, Arizona Cancer Center
 1998 - 2002 Faculty Member in the Interdisciplinary Graduate Program of Epidemiology, University of Arizona Graduate College
 1998 - Now Faculty in the Cancer Prevention and Control Fellowship Program (R25), Arizona Cancer Center
 1998 -1999 Admissions faculty interviewer for the College of Medicine, University of Arizona
 1999 - 2000 Member, Review Committee for the Dean's Dissertation Fellowship, College of Medicine, University of Arizona
 1999 - 2000 Member, Arizona College of Public Health Implementation Working Group for Academic Research
 2000 Member, Admissions Committee, Epidemiology Concentration, Master of Public Health, College of Public Health, University of Arizona
 2001 Member, Admission Committee, Epidemiology Interdisciplinary Graduate Program, College of Public Health, University of Arizona
 2003 Reviewer, Agriculture Experiment Station Research, College of Agriculture, University of Arizona
 2003 - 2007 Member of MPH program committee
 2003 - 2005 Member of policy and procedure committee, MPH program
 2003 - 2005 Member of the executive committee of the Graduate Program of Epidemiology
 2004 - 2005 Member of the division peer review committee

- 2004 – 2005 Member of the search committee for associate professor/professor in the division of environmental and occupational health
- 2005-2006 Member of the search committee for association professor/professor of epidemiology
- 2005-Now Member of the Student Affairs Committee, Mel and Enid Zuckerman College of Public Health
- 2005-2006 Dean Swanson's five-year performance review committee
- 2006-2007 Education Committee, Mel and Enid Zuckerman College of Public Health
- 2006-2008 Member, promotion and tenure committee, Mel and Enid Zuckerman College of Public Health
- 2007 College Representative to Graduate Council, Graduate College, University of Arizona
 ---Serve on the review committee for the University of Arizona Graduate Teaching and Mentoring Award (reviewed 15 nomination packets)
- 2007-Now University Committee on Academic Freedom and Tenure, University of Arizona
 --Serve on a special hearing panel in the fall of 2007 (three days hearing plus preparation for the hearing and a written report to the UA president)
 --Serve on a special hearing panel in the spring of 2008 (four days hearing plus preparation for the hearing and a written report to the UA president)
 --Serve on a special hearing panel in the fall of 2008 (one day hearing plus preparation and final report to the UA president)
 ---Serve on a special hearing in the spring of 2009 (two days hearing, preparation and report)
- 2007-2008 Dean Search Committee for Mel and Enid Zuckerman College of Public Health, University of Arizona.
- 2007- Now Undergraduate education working group, Mel and Enid Zuckerman College of Public Health, University of Arizona
- 2007 Steering committee member for the Integrative Health Sciences Facility Core at the Southwest Environmental Health Science Center (SWEHSC), University of Arizona
- 2007-Now Epidemiology Program Admission Committee, MEZCOPH, University of Arizona (review applications for MPH, MS and PhD programs)
- 2007 Serve as an interviewer to candidates of the director of the Arizona Arthritis Center
- 2007 Serve as an interviewer to candidates of the director of the Arizona Center on Aging
- 2007-2008 Epidemiology Forum 2008 (Developed an oral session on Epidemiology and Aging and invited speakers for the oral session)
- 2009 Public Health Informatics workgroup, Division of Epidemiology and Biostatistics, MEZCOPH
- 2009 Dean's Council, Mel and Enid Zuckerman College of Public Health

PUBLICATIONS/CREATIVE ACTIVITY:

➤ ***Manuscripts (Published and accepted)***

1. **Chen Z.** The growth of 2-6 years old kindergartner in Beijing. *Acta Anthropol Sin* 1987; 6(1):46-54 (with English abstract).

2. Stini WA, Stein P, **Chen Z**. Bone remodeling in old age: longitudinal monitoring in Arizona. *American Journal of Human Biology* 1992; 4:47-55.
3. Stini WA, **Chen Z**, Stein P. Aging, bone loss and body mass index in Arizona retirees. *American Journal of Human Biology* 1994; 6(1):43-50.
4. **Chen Z**, Lohman TG, Stini WA, Ritenbaugh C and Aickin M. Fat or lean tissue, which one is the major determinant of bone mineral mass in healthy postmenopausal women? *Journal of Bone and Mineral Research* 1997; 12:144-151. [PMID: 9240737]
5. **Chen Z**, Maricic M, Lund P, Tesser J, Gluck O. How the new Hologic hip normal reference values affect the densitometric diagnosis of osteoporosis. *Osteoporosis International* 1998; 8(5):423-427. [PMID:9850349]
6. Maricic M, Jesser J, **Chen Z**, Lund P, Gluck O. How often does lateral spine DEXA detect low bone mass in patients with a normal AP spine and hip. *Journal of Clinical Densitometry* 1998; 10: 1045-1050. [PMID:15304896]
7. Marshall JR, **Chen Z**, Diet and health risk: risk patterns and disease-specific associations. *American Journal of Clinical Nutrition* 1999;69 (suppl):1351S-6S.
8. Maricic M, **Chen Z**. Bone densitometry. *Clinics in Laboratory Medicine* 2000; 20 (3): 469-488. [PMID:10359236]
9. Villa ML, **Chen Z**. Osteoporosis: Understanding ethnic differences. *Annals of Long-Term Care* 2000; 8: 52-55 (special issue).
10. Nicholas SJ, **Chen Z**. Osteoporosis in Native Americans. *The IHS Primary Care Provider* 2002; 27 (5): 94-101.
11. Morimoto LM; White E; **Chen Z**; Chlebowski RT, Hays J, Kuller L, Ana Marie Lopez AM, Manson J, Margolis KL, Muti PC, Stefanick ML; McTiernan A. Obesity, body size, and risk of postmenopausal breast cancer: the Women's Health Initiative (United States). *Cancer Causes and Control* 2002; 13:741-751. [PMID:12420953]
12. **Chen Z**, Maricic M, Nguyen P, Ahmann FR, Bruhn R, Dalkin BL. Low Bone density and high percentage of body fat among men who were treated with androgen deprivation therapy for prostate carcinoma. *Cancer* 2002; 95:2136-44. [PMID:12412167]
13. **Chen Z**, Pettinger MB, Ritenbaugh C, LaCroix AZ, Robbins J, Caan BJ, Barad DH, Hakim IA. Habitual Tea Consumption and Risk of Osteoporosis -- A Prospective Study in the Women's Health Initiative Observational Cohort. *American Journal of Epidemiology* 2003, 158:772-81. [PMID:14561667]
14. LaCroix A, Cauley J, Pettinger M, Hisa J, Bauer D, McGowan J, **Chen Z**, Lewis C, McNeeley SG, Maureen Pasaro, Jackson R. Statin use, osteoporotic fracture and level of bone density in postmenopausal women, results from the Women's Health Initiative Observational Study. *Annals of Internal Medicine* 2003; 139:97-104. [PMID:12859159]
15. Cauley JA, Robbins J, **Chen Z**, Cummings SR, Jackson R, LaCroix A, LeBoff M, Lewis CE, McGowan J, Neuner J, Pettinger M, Stefanick ML, Wactawski-Wende J, Watts N. Estrogen Plus Progestin Reduces The Risk of Fracture: Expanded Analyses Of Fracture And Bone Mineral Density. The Women's Health Initiative Randomized Controlled Trial. *JAMA* 2003; 290:1729-38. [PMID:14519707]
16. **Chen Z**, Kooperberg C, Pettinger MB, Bassford T, Cauley JA, LaCroix AZ, Lewis CE, Kipersztok S, Borne MC, Jackson RD. Validity of Self-Report for Fractures among a Postmenopausal Multiethnic Cohort. *Menopause* 2004; 11(3): 264-274. [PMID:15167305]
17. **Chen Z**, Staten LK, Maskarinec G, Arendell L, Bruhn R, Nicholas SJ, Marshall J. The relationship between mammographic density and body composition ---Results from a

- cross-sectional study among Hispanic and non-Hispanic White women. *International Journal of Body Composition Research* 2004; 2 (1): 23-29. [PMID:18090034]
18. **Chen Z**, Stini WA, Marshall JR, Martinez ME, Guillén-Rodríguez JM, Roe D, Alberts DS. Wheat Bran Fiber Supplementation and Bone Loss among Participants in a Colon Cancer Prevention Trial. *Nutrition* 2004; 20:747-751. [PMID:15325680]
 19. **Chen Z**, Maricic M, Bassford TL, Pettinger M, Ritenbaugh C, Lopez AM, Barad DH, Gass M, Leboff MS. Fracture Risk among Breast Cancer Survivors-Results from the Women's Health Initiative. *Archive of Internal Medicine* 2005; 165:552-228. [PMID:15767532]
 20. Chlebowski RT, **Chen Z**, Anderson G, Rohan T, Aragaki A, Land D, Dolan NC, Paskett ED, McTiernan A, Hubbell FA, Adams-Campbell LL, Prentice R. Ethnicity and breast cancer: Factors Influencing Differences in Incidence and Outcome. *Journal of National Cancer Institute* 2005; 97:439-48. [PMID:15770008]
 21. Wampler NS, **Chen Z**, Jacobsen C, Henderson JA, Barbara V. Howard BV, Rossouw JE. Bone mineral density of American Indian and Alaska Native women: Results from the Women's Health Initiative Study. *Menopause* 2005; 12:536-544. [PMID:16145307]
 22. **Chen Z**, Maricic M, Pettinger M, Ritenbaugh C, Lopez AM, Barad DH, Gass M, Leboff MS, Bassford TL. Osteoporosis and Rate of Bone Loss among Postmenopausal Survivors of Breast Cancer --- Results from a Subgroup in the Women's Health Initiative Observational Study. *Cancer* 2005; 104:1520-30. [PMID:16110508]
 23. **Chen Z**, Bassford T, Green SB, Cauley JA, Jackson RD, LaCroix AZ, Leboff M, Stefanick ML, Margolis KL. Postmenopausal Hormone Therapy and Body Composition --- Results from the Women's Health Initiative E & P Clinical Trial. *The American Journal of Clinical Nutrition* 2005; 82:651-6. [PMID:16155280]
 24. Wang ZM, Heshka S, Wang J, Gallagher D, Deurenberg P, **Chen Z**, Heymsfield SB. Metabolically-active portion of fat-free mass: a cellular body composition level modeling analysis. *American Journal of Physiology-Endocrinology and Metabolism* 2006; 292:49-53. [PMID:16882929]
 25. Thomson CA, Arendell LA, Bruhn RL, Maskarinec G, Lopez AM, Wright NC, Moll CE, Aickin M, **Chen Z**. Pilot study of dietary influences on mammographic density in pre- and postmenopausal Hispanic and non-Hispanic white women. *Menopause* 2007 Mar-Apr; 14 (2): 243-50. [PMID: 17091096]
 26. Maskarinec G, Pagano I, **Chen Z**, Nagata C, Gram IT. Ethnic and Geographic Differences in Mammographic Density and their Association with Breast Cancer Incidence. *Breast Cancer Research and Treatment* 2007; 104(1):47-56. [PMID:17009106]
 27. Maskarinec G, **Chen C**, Gram IT, Nagata C, Takata Y, Pagano I, Hayashi K, Arendell L, Skeie G. IGF-I and Mammographic Density in Four Geographic Locations: A Pooled Analysis. *International Journal of Cancer* 2007; 121:1786-1792. [PMID:17520679]
 28. Wang ZM, Heshka S, Pietrobelli A, **Chen Z**, Silva AM, Sardinha LB, Wang J, Gallagher D, Heymsfield SB. Total-Body Skeletal Muscle Mass in Children: A New Total-Body Potassium Method. *Journal of Nutrition* 2007; 137:1988-1991. [PM ID:17634275]
 29. Cauley JA, Wu L, Wampler NS, Barnhart JM, Allison M, **Chen Z**, Jackson R and Robbins J. Clinical Risk Factors for Fractures in Multiethnic Women: The Women's Health Initiative. *Journal of Bone and Mineral Research Clinical Risk Factors for*

- Fractures in Multi-Ethnic Women: The Women's Health Initiative. *Journal of Bone and Mineral Research* 2007; 22(11):1816-1826. [PMID:17638574]
30. **Chen Z**, Wang ZM, Lohman T, Heymsfield SB, Outwater E, Nicholas JS, Bassford T, LaCroix A, Punyanitya M, Wu G, Sherrill D, Going S. DXA is a reliable tool for assessing skeletal muscle mass in older women. *J. Nutr.* 2007; 137:2775-2780. [PMID:18029498]
 31. Robbins J, Agaki A, Kooperberg C, Watts NB, Wactawski-Wende J, Jackson R, MS. LeBoff, Lewis CE, **Chen Z**, Stefanick M, Cauley JA. Factors associated with 5-year risk of hip fracture in postmenopausal women. *JAMA* 2007; 298:2389-2398. [PMID:18042916]
 32. Caire-Juvera G, Arendell LA, Maskarinec G, Thomson CA, **Chen Z**. Association between breast density and body composition components in Hispanic and non-Hispanic white women by menopausal status. *Menopause* 2008; 15(2):319-25. [PMID:18090034]
 33. **Chen Z**, Arendell L, Aickin M, Cauley J, Lewis CE, Chlebowski R. Hip Bone Density Predicts Breast Cancer Risk Independently of Gail Score—Results from the Women's Health Initiative. *Cancer* 2008; 113(5):907-915 (published with editorial). [PMID:18666209]
 34. Wright NC; Riggs GK; Lisse JR; **Chen Z**. Self-Reported Osteoarthritis, Ethnicity, BMI and other Associated Risk Factors in Postmenopausal Women---Results from the Women's Health Initiative. *J Am Geriatr Soc* 2008; 56: 1736-1743. [PMID:18662212]
 35. Cauley JA, Wampler NS, Barnhart JM, Wu L, Allison M, **Chen Z**, Hendrix S, Robbins J, and Jackson RD. Incidence of fractures compared to cardiovascular disease and breast cancer: the Women's Health Initiative Observational Study. *Osteoporos International* 2008; 19:1717-23. [PMID:18629572]
 36. **Chen Z**, Beck TJ, Cauley JA, Lewis CE, LaCroix A, Bassford T, Wu G, Sherrill D, Going S. Hormone Therapy Improves Femur Geometry Among Ethnically Diverse Postmenopausal Participants in the Women's Health Initiative Hormone Intervention Trials. *Journal of Bone and Mineral Research* 2008; 23:1935-1945. [PMID:18665788]
 37. Caire-Juvera G, Ritenbaugh C, Wactawski-Wende J, Snetselaar L, **Chen Z**. Vitamin A intake and the risk of fractures among participants of the Women's *Health Initiative Observational Study*. *American Journal of Clinical Nutrition* 2009; 89:323-30. [PMID:19056568].
 38. **Chen Z**, Maricic M, Aragaki AK, Mouton C, Arendell L, Lopez AM, Bassford T, Chlebowski RT. Fracture risk increases after diagnosis of breast or other cancers in postmenopausal women: results from the Women's Health Initiative. *Osteoporos International* 2009; 20(4):527-36. [PMID:18766294]
 39. Budhiraja P, **Chen Z**, Popovtzer M. Sodium bicarbonate versus normal saline for protection against contrast nephropathy. *Renal Failure* 2009; 31(2):118-123. [PMID:19212908]
 40. Beck TJ, Petit M, Wu G; LeBoff MS, Cauley JA, **Chen Z**. Does obesity really make the femur stronger? Bone Mineral Density, Geometry and Fracture Incidence in the Women's Health Initiative-Observational Study. *Journal of Bone and Mineral Research* 2009; 24(8):1369-79. [PMID 19292617]
 41. Bea JW, Zhao Q, Cauley JA, LaCroix A, Bassford T, Lewis CE, Jackson R, Tylavsky FA, **Chen Z**. Effect of hormone therapy on lean body mass, falls, and fractures: Six-year results from the Women's Health Initiative Hormone Trials. *Menopause* 2010 Jan; 18(1):44-52. [PMID: 20689466]
 42. Cauley JA, LaCroix AZ, Robbins JA, Larson J, Wallace R, Wactawski-Wende J, **Chen Z**, Bauer DC, Cummings SR, Jackson R. Serum Estradiol and Fracture

- Reduction During Treatment With Hormone Therapy: The Women's Health Initiative Randomized Trial. *Osteoporos International* 2010 Jan; 21(1):167-77. [PMID: 19436934]
43. Carbone L, Buzkova P, Fink HA, Lee JS, **Chen Z**, Ahmed A, Parashar S and Robbins JR. Hip Fractures and Heart Failure: Findings from the Cardiovascular Health Study. *Eur Heart J*. 2010 Jan; 31(1):77-84. [PMID: 19892715]
 44. Farr JN; Tomás R; **Chen Z**; Lisse JR.; Lohman TG; Going SB. Lower Trabecular Volumetric BMD at Metaphyseal Regions of Weight-bearing Bones is Associated with Prior Fracture in Young Girls. *Journal of Bone and Mineral Research* 2010 Feb; 26(2):380-7. [PMID: 20721933]
 45. Farr JN, **Chen Z**, Lisse JR, Lohman TG, Going SB. Relationship of total body fat mass to weight-bearing bone volumetric density, geometry, and strength in young girls. *Bone* 2010 Apr; 46(4): 977-84. [PMID: 20060079]
 46. Gray SL, LaCroix AZ, Larson J, Robbins J, Cauley JA, Manson JE, **Chen Z**. Proton Pump Inhibitor Use, Hip Fracture and Change in Bone Density In Postmenopausal Women-- Results from the Women's Health Initiative. *Archive of Internal Medicine* 2010 May 10; 170(9):765-71. [PMID: 20458083]
 47. LaCroix AZ, Beck TJ, Cauley JA, Lewis CE, Bassford, T, Jackson R, Wu G, **Chen Z**. Hip Structural Geometry and Incidence of Hip Fracture in Postmenopausal Women: what does it add to conventional bone mineral density? *Osteoporos International* 2010 Jun; 21(6):919-29. [PMID: 19756830]
 48. Chlebowski RT; **Chen Z**; Cauley JA, Rodabough R, McTiernan A; Lane DS; Manson JE; Snetselaar L; Yasmeen S; O'Sullivan MJ; Stafford M; Hendrix SL; Robert B. Wallace RB. Oral Bisphosphonate Use and Breast Cancer Incidence in Postmenopausal Women. *J Clin Oncol*. 2010 Aug 1; 28(22): 3582-90. [PMID: 20567009]
 49. Nelson DA, Beck TJ, Wu G, Lewis CE, Bassford T, Cauley JA, LeBoff MS, Going SB, **Chen Z**. Ethnic differences in femur geometry in the women's health initiative observational study. *Osteoporos International* 2010 Aug 26; 22(5):1377-88. [PMID: 20737265]
 50. Lee JS, Bůžková P, Fink HA, Vu J, Carbone L, **Chen Z**, Cauley J, Cappola AR, Robbins J. Subclinical thyroid dysfunction and incident hip fracture in older adults: The Cardiovascular Health Study. *Archives of Internal Medicine* 2010 Nov 22; 170(21):1876-83. [PMID: 21098345]
 51. **Chen Z**, Thomson CA, Aickin M, Nicholas JS, Van Wyck D, Lewis CE, Jane A. Cauley JA, Bassford T. The Relationship between Incidence of Fractures and Anemia in Older Multiethnic Women. *Journal of the American Geriatrics Society* 2010 Dec; 58(12):2337-44. [PMID: 21143442]
 52. Wang ZM, Heymsfield S, **Chen Z**, Zhu SK, Pierson R. In Vivo Human Elemental Composition. *Physics in Medicine and Biology* 2010, 55: 2619 [doi:10.1088/0031-9155/55/9/013](https://doi.org/10.1088/0031-9155/55/9/013)
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➤ **Invited Book Chapters:**

Lohman TG, **Chen Z**, Dual-Energy X-ray Absorptiometry (chapter 5). In *Human Body Composition* (2nd edition), Editors: Heymsfield SB & Lohman T. Co-editors: Wang Z & Going S. *Human Kinetics* (ISBN 0-7360-4666-0 hard cover), 2005; pp: 63-78.

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➤ **Book edited**

Huanjiu Xi & Zhao Chen (edited). Anthropometry Methods (人体测量方法). Science Publishing House. Beijing 2010. (received the publication copy 2011)

➤ **Peer-reviewed Abstracts:**

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M. LeBoff, J. Cauley, **Z. Chen**, A. LaCroix, M. Pettinger, S. Cummings, N. Watts, C. Lewis, J. McGowan, M. Stefanick, J. Wactawski-Wende, J. Henderson, J. Robbins, R. Jackson. The Effects of Estrogen Plus Progestin, on Bone Mineral Density (BMD) in Postmenopausal Women of Different Ages and Ethnic Groups Enrolled in the Women's Health Initiative (WHI). Presented at the American Society for Bone and Mineral Research 25th Annual Meeting, September 21-25, 2003).

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Venker C, James R, Wright N, Nicholas S, **Chen Z**. Ethnic Differences in Body Composition: Results from the Women's Health Initiative (Oral Presentation, APHA annual meeting, Boston MA Nov 4-8, 2006).

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Nelson DA, Beck TJ, Lewis CE, Bassford T, Cauley J, Leboff M, Going S, **Chen Z**. Ethnic Variations in Hip Geometry Among Women at Baseline from the Women's Health Initiative (**oral presentation**). *Journal of Bone and Mineral Research* 2007, 22 (supplement 1):S15.

Wu G, Beck TJ, Bassford T, Cauley JA, LaCroix JA, Lewis CE, **Chen Z**. Hip Geometric Structure is Weaker in Anemic Women---Results from the Women's Health Initiative Observational Study (**plenary poster presentation**). *Journal of Bone and Mineral Research* 2007, 22 (supplement 1):S123.

Wright NC, Lisse J, Beck TJ, Bassford T, LaCroix AZ, Cauley JA, Lewis CE, Going SB, **Chen Z**. Hip Geometry and Bone Fragility among Postmenopausal Women with Rheumatoid Arthritis (**poster presentation**) *Journal of Bone and Mineral Research* 2007, 22 (supplement 1):S439.

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Beck TJ, SB Going, **Z Chen**. Towards a weak bone phenotype: Comparisons of load normalized section modulus among women with and without fracture history in the Women's Health Initiative (**poster presentation**). Journal of Bone and Mineral Research 2007, 22 (supplement 1):S198.

Chen Z, Beck TJ, Wright N, LaCroix A, Cauley J, Lewis B, Bassford T, LeBoff M, Jackson R. The effect of calcium plus vitamin D supplement on hip geometric structures--- Results in the Women's Health Initiative Study (**oral presentation**). Journal of Bone and Mineral Research 2007, 22 (supplement 1):S59.

Nicholas JS, Bassford T, **Chen Z**. Lower Hip BMD among Ethnic Diverse Postmenopausal Women with Anemia – Results from a Subgroup of the Women's Health Initiative (**poster presentation**). Journal of Bone and Mineral Research 2007, 22 (supplement 1):S426.

Bassford T, Beck TJ, Wu G, Cauley JA, LaCroix AZ, Lewis CE, **Chen Z**. Changes in hip geometric structures with aging- Longitudinal Data Analysis from the Women's Health Initiative Observational Study (**oral plenary poster presentation by Chen Z**). Journal of Bone and Mineral Research 2007, 22 (supplement 1):S88, S122.

Going S, Beck T, Arendell L, Cauley J, Lewis B, Bassford T, Wang Z, LaCroix A, Lohman T, **Chen Z**. Associations between Body Composition and Hip Geometry in Postmenopausal Women in the Women's Health Initiative (**plenary poster presentation**). Journal of Bone and Mineral Research 2007, 22 (supplement 1):S122.

J.A. Cauley, A.Z. LaCroix, J.A. Robbins, J. Larson, R. Wallace, J. Wactawski-Wende, **Z. Chen**, J. McGowan, S.R. Cummings, R. Jackson Serum Estradiol and Fracture Reduction during Treatment with Hormone Therapy: The Women's Health Initiative (Plenary Poster presentation) ASBMR 30th Annual Meeting being held September 12-16, 2008 in Montréal, Québec, Canada.

M.S. LeBoff¹, R. Garg¹, T. Beck², J. Cauley³, G. Wu⁴, B. Lewis⁵, D. Nelson⁶, A. LaCroix⁷, **Z. Chen**⁴ Geometric Evidence of a Modeling Defect in Type 2 Diabetic Women Enrolled in the Women's Health Initiative as a Potential Explanation for Increased Fracture Risk" has been selected by the 2008 Program Committee to be presented as an oral presentation at the forthcoming ASBMR 30th Annual Meeting being held September 12-16, 2008 in Montréal, Québec, Canada.

Lee JS, Fink, H, Buzkova P, Vu J, Carbone L, **Chen Z**, Cappola A, Robbins J. "Subclinical Thyroid Disease Predicts Hip Fracture The Cardiovascular Health Study" has been selected by the 2008 Program Committee to be presented as an oral presentation at the forthcoming ASBMR 30th Annual Meeting being held September 12-16,2008 in Montréal, Québec, Canada.

Z Chen; M. Maricic, AK Aragaki, C. Mouton; L Arendell; AM Lopez; T Bassford; RT Chlebowski. Fracture risk increases after diagnosis of breast or other cancers in postmenopausal women---- Results from the Women's Health Initiative. American College of Epidemiology meeting, September 14-16th, 2008. Tucson Arizona, USA (**Winner: Third Place for the Best Poster Presentation**).

Wang ZM, Pi-Sunyer FX, Heymsfield SB, Zhu S, **Chen Z**, Pierson RN Jr. Soft-tissue R values in dual-energy X-ray absorptiometry: Validation by human elemental composition. North American Association for the Study of Obesity, 2008. Obesity 2008; 16:S123.

Chen Z, Lihong Qi, Tom Beck, John Robbins, Guanglin Wu, Beth Lewis, Jane Cauley, Wright N, Seldin MF Percent of African Ancestry is Significantly Related to Hip

Geometric Structures. (Presented at the American Society for Bone and Mineral Research Annual Meeting, Denver, September 10-15, 2009)

NC Wright, JR Lisse, BT Walitt, CB Eaton, **Z Chen**. Self-Reported Arthritis Increases Fracture Risk---Results from the Women's Health Initiative. (Presented at the American College of Rheumatology for presentation at the annual meeting, Philadelphia, October 17-21, 2009).

Chen Z. Advancement in Clinical Utility of Body Composition Measurements (**Invited Keynote Speaker**). The 8th International Body Composition Meeting, Hangzhou, Zhejiang, China, May 2011

WORK IN PROGRESS

➤ **Peer-reviewed Manuscripts Submitted**

Barzilay JI; Bůžková P; de Boer IH; Kestenbaum B; **Chen Z**; Carbone L; Rassouli NN; Vupputuri S; Robbins J. ALBUMINURIA IS ASSOCIATED WITH INVOLUTION OF THE MUSCULO-SKELETAL SYSTEM IN ADULTS, AGE \geq 69 YEARS (submitted to Archive of Internal Medicine, 2011)

Rajesh Garg¹, **Zhao Chen**², Thomas Beck³, Jane A. Cauley⁴, Guanglin Wu², Dorothy Nelson⁶, Beth Lewis⁵, Andrea LaCroix⁷, Meryl S. LeBoff¹. Hip Geometry in Diabetic Women: Implications for Fracture Risk (December 2011, submitted to metabolism).

➤ **Peer-reviewed Abstracts Submitted**

➤ **Symposiums (co-chair and presenter)**

July 9-15, 2008. The 8th International Symposium on In-vivo body composition studies.

Pre-Symposium Sarcopenia Definition – An Evidence-basis approach, Co-Chair and presenter, **Chen Z**.

Time: July 9, 2008 8-12 am

Place: Columbia University, New York

Co-chairs: Tamara Harris, MD, National Institute on Aging, U.S. & Zhao Chen, PhD, MPH, University of Arizona, U.S.

Other presenters: Marjolein Visser, PhD, VU University Amsterdam, the Netherlands; Lynn Marshall, ScD, Oregon Health and Science University, U.S.; Scott Going, PhD, University of Arizona, U.S.

August 1-2, 2008. III IANA (International Academy on Nutrition and Aging) meeting.

Symposium III Sarcopenia---How to define it? Co-Chair and presenter, **Chen Z**.

Time: August 1, 2008 1:00 -3:00 pm

Place: Hyatt Regency Tamaya Resort & SPA, Santa Ana Pueblo, NM USA.

Co-chairs: Tamara Harris, MD, National Institute on Aging, U.S. & Zhao Chen, PhD, MPH, University of Arizona, U.S.

Other presenters: Marjolein Visser, PhD, VU University Amsterdam, the Netherlands; Lynn Marshall, ScD, Oregon Health and Science University, U.S.; Scott Going, PhD, University of Arizona, U.S.

November 21-25, 2008. Gerontological Society of America. Symposium: Sarcopenia. Co-chair and presenter, **Chen Z.**

Time: November 21-25, 2008

Place: Washington DC

Co-chairs: Tamara Harris, MD, National Institute on Aging, U.S. & Zhao Chen, PhD, MPH, University of Arizona, U.S.

Other presenters: Marjolein Visser, PhD, VU University Amsterdam, the Netherlands; Lynn Marshall, ScD, Oregon Health and Science University, U.S.; Scott Going, PhD, University of Arizona, U.S.

July 5-9, 2009 Paris. XIXth IAGG World Congress of Gerontology and Geriatrics

Defining Sarcopenia-Summing up an evidence-based approach from population studies

Co-Chairs: **Zhao Chen**, PhD, MPH, University of Arizona Tamara Harris, MD, National Institute on Aging, U.S

Other presenters: Marjolein Visser, PhD, VU University Amsterdam, the Netherlands; & Peggy Cawthon, PhD, San Francisco Coordinating Center ,California Pacific Medical Center Research Institute

August 5-8 2011, Advanced Body Composition Workshop, Guiyang, Guizhou, China

- Organized by the Chinese Society for Anatomical Sciences
- Workshop director and faculty: Zhao Chen, PhD, MPH, University of Arizona

MEDIA

2001 Interviewed by NPR radio station, KUAZ TV station and NBC local TV station regarding my research on women's breast and bone density.

2002 TV interview by Telemundo regarding my research on women's breast and bone density.

2003 Interview with International medical news group about fracture risk among breast cancer survivors (12230 Wilkins Avenue, Rockville, MD 20852, Phone (301)816-8721, fax: (301)816-8719) will be appeared on OBGYN NEWS in November, 2003

2003 Media briefing at the ASBMR meeting on breast cancer survivor and fracture study.

2005 Telephone Interview with TucsonCitizen (3. 11. 05)

2005 Telephone interview with Health Day (3.11.05)

2005 Telephone Interview with NBC (3. 14.05)

2005 TV Interview with Univision, Tucson. KUV46/38 (3.16.05)

- 2005 Telephone interview with Emergency Medicine News (3. 24.05)
- 2005 Interview with Arizona Daily Star (3. 22.05--- story appeared on Sunday 3. 24.05)
- 2006 Interview with PBS station about vitamin D and calcium study in the Women's Health Initiative
- 2008 Interview with ABC News The story about breast cancer risk and bone density was featured on ABC News Now on July 28, 2008
- 2008 Interview with KGUN 9 Local news media station KGUN 9 covered the breast cancer and bone density story on July 28, 2008, on their 5 p.m. newscast
- 2008 Interview with World Health News Today. Featured on August 5, 2008
- 2008 Interview with World Health News Today. Featured on August 5, 2008
- 2008 Interview with Ivanhoe Productions. About the Gail Score paper. August 12, 2008.
- 2011 Interview with TV4 on Height and cancer incidence in the Million Women Study

SCHOLARLY PRESENTATION

➤ ***Seminar and University Presentations***

- 1997 **Chen Z** Body Composition Measurements. At the Friday Seminar of the Arizona Arthritis Center, University of Arizona, Tucson.
- 1997 **Chen Z** Body Composition and Bone Mineral Density Among Prostate Cancer Patients. At the Cancer Prevention and Control Wednesday Seminar of the Arizona Cancer Center, University of Arizona, Tucson.
- 2000 **Chen Z** State of the Art of Calcium Research, at the Women's Health Initiative participants (outreach).
- 2000 **Chen Z** and Marshall J, Should Energy Intake be Corrected in Epidemiologic Studies of Diet and Disease? Arizona Cancer Center, University of Arizona
- 2000 **Chen Z** Osteoporosis in Minority Populations, Arizona Arthritis Center, University of Arizona.
- 2000 **Chen Z** Exercise and osteoporosis prevention (outreach for Tucson osteoporosis support group).
- 2000 **Chen Z** Osteoporosis Screening (Epidemiology Seminar).
- 2001 **Chen Z** BMD: in Osteoporosis and other Diseases (outreach).
- 2002 **Chen Z** New findings on breast cancer and osteoporosis (outreach at the UA Hispanic Alum. Association).
- 2003 **Chen Z** Osteoporosis and breast cancer: are they associated? (Nutritional Science Seminar, UA).
- 2004 **Chen Z** Risk of Clinical Fractures among Breast Cancer Survivors (March 3, 2004 Department of Medicine Grand Rounds)
- 2004 **Chen Z** Cancer and Aging (March 4, 2004, Epidemiology Seminar)

- 2004 **Chen Z**, Carroll T, Tomasa L. Finding the Perfect Balance of Strength and Safety: Falls Prevention Taken Seriously (August 19, 2004, AzGEC, Geriatric Grand Rounds).
- 2004 **Chen Z**. Bone Density and Body Composition Research In the Women's Health Initiative. First Women's Health Research Symposium, National Center of Excellence in Women's Health, University of Arizona (*invited speaker, September 15, 2004*).
- 2006 **Chen Z**. Datablize Seminar. College of Medicine. University of Arizona (Invited speaker, September 5, 2006)
- 2006 **Chen Z**. Women's Health Beyond Reproductive Age. Epidemiology Seminar. Mel and Enid Zuckerman College of Public Health. University of Arizona (October 12, 2006)
- 2007 **Chen Z**. How is breast cancer related to osteoporosis? CPC Grand Rounds seminars, Arizona Cancer Center, University of Arizona (October 24, 2007).

➤ **Conferences Presentations (peer-reviewed or invited)**

- 1993 **Chen Z**. Predictors of bone mineral density in postmenopausal women. Annual meeting of the American Association of Physical Anthropology, Toronto.
- 1994 **Chen Z**. The relationship of body composition and bone mineral density in healthy postmenopausal women. Annual meeting of the American Association of Physical Anthropology, Las Vegas.
- 1995 **Chen Z**. Nutrition and bone mass in healthy postmenopausal women. Annual Meeting of the American Association of Clinical Nutrition, San Diego.
- 1997 **Chen Z**. What do primary care physicians want on a DEXA report. Third Annual Meeting of the International Society for Clinical Densitometry, San Diego.
- 1997 **Chen Z**. Comparison of A-P and Lateral Spine DEXA in Osteoporosis. Third Annual Meeting of the International Society for Clinical Densitometry, San Diego.
- 1998 **Chen Z**. Comparative Findings in Bone Mineral Density among Postmenopausal Native American Woman and Postmenopausal White Women Residing in Arizona. The Annual Meeting of the American Society of Bone Mineral Research, San Francisco.
- 1998 **Chen Z**. Body Composition in Men with Prostate Cancer Receiving Different Modalities of Androgen Ablation. The Annual Meeting of the American Society of Bone Mineral Research, San Francisco.
- 1999 **Chen Z**. Osteoporosis Screening Program With Mobile DXA at the Work Site. Fourth Annual Meeting of the International Society for Clinical Densitometry, New Orleans.
- 1999 **Chen Z**. Comparison of Bone Mineral Density Among Elderly People using Single Photon and Peripheral Dual-Energy X-Ray Absorptiometry. Fourth Annual Meeting of The International Society for Clinical Densitometry, New Orleans.

- 1999 **Chen Z.** Body Composition and Bone Mineral Density. The Third International Congress of Osteoporosis, China.
- 1999 Maricic MJ & **Chen Z.** Quantitative Ultrasound in Pre-menopausal Women with Rheumatoid Arthritis. The Third International Congress of Osteoporosis, China.
- 2000 **Chen Z.** What do we know about osteoporosis in Asian American and Native American Women? The 2000 American Geriatrics Society/American Federation for Aging Research Annual Scientific Meeting, May 17-21 (**Invited Speaker**)
- 2000 **Chen Z,** Marshall JR. Correction for Energy Intake in Epidemiologic Studies of Diet and Disease. Oral Presentation in a Spotlight Session at the Society for Epidemiology Research 2000 meeting in Seattle, June 15-17.
- 2000 **Chen Z,** Stini WA, Marshall J, Albert D. Wheat bran fiber supplementation and bone mineral density. American Society for Bone and Mineral Research 22nd Annual Meeting, September 22-26, 2000.
- 2001 **Chen Z,** Maskarinec G, Staten L, Marshall J. Mammographic Density and body composition among Hispanic and white postmenopausal women. American Society of Preventive Oncology Silver Anniversary Meeting, March 2001.
- 2001 **Chen Z,** Nguyen PT, Maricic MJ, Ahmann FR, Dalkin BL. Low bone density is associated with reduced lean soft tissue mass in prostate cancer patients treated with androgen ablation. BMS/ECTS June 2001, Spain (accepted for poster presentation).
- 2002 **Chen Z,** Pettinger MB, Ritenbaugh C, LaCroix AZ, Robbins J, Caan BJ, Barad DH, Hakim IA. Does Tea Drinking Affect Bone Density and Risk of Fractures among U.S. Postmenopausal Women with Different States of Hormone Replacement Therapy? (The American Society for Bone and Mineral Research 24th Annual Meeting, September 20-14, 2002).
- 2002 **Chen Z,** Kooperberg C, Pettinger MB, Bassford T, Cauley JA, LaCroix AZ, Lewis CE, Kipersztok S, Borne MC, Jackson RD. Validity of Self-Report of Fractures among a Postmenopausal Multiethnic Cohort---Results from the Women's Health Initiative--- (The American Society for Bone and Mineral Research 24th Annual Meeting, September 20-14, 2002).
- 2003 **Chen Z,** Maricic M, Bassford TL, Ritenbaugh C, Lopez AM, Leboff MS, Gass M, Barad DH. Increased Fracture Risk among Breast Cancer Survivors-Results from the Women's Health Initiative. Oral presentation at American Society for Bone and Mineral Research 25th Annual Meeting, September 21-25, 2003) (**Invited speaker to media briefing because of the significance of the findings**).
- 2004 **Chen Z,** Bassford T, Green S, Leboff M, Margolis K, LaCroix A, Jackson R, Cauley J, Stefanick M. Postmenopausal Hormone Therapy and Body Composition---Results from the Women's Health Initiative E + P trial. (Oral presentation at the American Society for Bone and Mineral Research 26th Annual Meeting, October 1-5, 2004, Seattle, Washington, USA).

- 2005 **Chen Z**, Bassford T, Lohman T, Nicholas S, Wu GL, Wright N, Wang ZM, Going S, LaCroix A, Sherrill D, Heymsfield S. Body composition and physical function in a cohort of multiethnic older women --- a subgroup of the Women's Health Initiative Observational Study (Oral presentation, International Symposiums, Body Composition, September 6-9, 2005 UK).
- 2005 **Chen Z**, Cauley J, Lewis CE, LaCroix A, Beck T, Nelson DA, Going S, Sherrill D, Lohman T, Jackson RD, LeBoff M, Outwater E, Wang ZM, Heymsfield S, Wu GL, Wright N, Nicolas S, Bassford T. Hormone Interventions Lead to Favorable Changes in Hip Geometric Structure (Poster presentation, American Society for Bone and Mineral Research 27th Annual Meeting, September 23-27, Nashville, TN)
- 2005 **Chen Z**, Wang ZM, Outwater E, Heymsfield S, Sherrill D, Lohman T, LaCroix A, Nicolas S, Wu GL, Wright N, Arendell L, Moll C, Caire G, Nelson DA, Punyanitya M, Cauley J, Lewis CE, Beck T, Nelson DA, Going S, Jackson RD, LeBoff M, Outwater E, , Bassford T, Going S. Is DXA a Useful Tool for Assessing Skeletal Muscle Mass in Older Women? (Poster presentation, American Society for Bone and Mineral Research 27th Annual Meeting, September 23-27, Nashville, TN).
- 2006 **Chen Z**, Arendell LA, Thomson CA, Bassford TI. Anemia and Fractures (Oral Presentation, American Society for Bone and Mineral Research 28th Annual Meeting September 15-19, 2006, Philadelphia Pennsylvania).
- 2006 **Chen Z**, Beck T, Lewis CE, Cauley J, LaCroix A, Sherrill D, Wu G, Nelson D, Jackson R, LeBoff M, Outwater E, Lohman T, Wang Z, Heymsfield S, Bassford T, Going S. Body Composition and Hormone Intervention Have Independent Effects on Hip Geometry (Planetary Poster Presentation, American Society for Bone and Mineral Research 28th Annual Meeting September 15-19, 2006, Philadelphia Pennsylvania).
- 2007 **Chen Z**, Maricic M, Aragaki AK, Mouton CP, Lopez AM, Arendell LA, Bassford T, Chlebowski RT. Fracture risk increases after cancer diagnosis in postmenopausal women: results from the Women's Health Initiative Journal of Bone and Mineral Research 2007, 22 (supplement 1):S77. American Society of Bone and Mineral Research 29th Annual Meeting, September 16-19, 2007, Honolulu, Hawaii. (*oral presentation*).
- 2007 **Chen Z**, Beck TJ, Wright N, LaCroix A, Cauley J, Lewis B, Bassford T, Leboff M, Jackson R. The effect of calcium plus vitamin D supplement on hip geometric structures--- Results in the Women's Health Initiative Study Journal of Bone and Mineral Research 2007, 22 (supplement 1):S59. American Society of Bone and Mineral Research 29th Annual Meeting, September 2007, 16-19, Honolulu, Hawaii. (*oral presentation*).
- 2008 **Chen Z**. Sarcopenia in the Women's Health Initiative, 3rd International Academy on Nutrition and Aging Meeting (August 1, 2008)
- 2008 **Chen Z**. Sarcopenia Interstudy Workgroup (Invited Speaker). Sarcopenia Conference. Baltimore, August 29, 2008

2009 **Chen Z.** Sarcopenia Interstudy Workgroup & Weight Loss Results. July 6, 2009
Paris XIXth IAGG World Congress of Gerontology and Geriatrics

2009 **Chen Z.** Body composition and human adaptation (invited speaker) July 28-31, 2009.
The 16th Congress of the International Union of Anthropological and Ethnological
Science. Kunming, China

2011 **Chen Z.** Body Composition Assessment: Increased Utility at Clinical and Research
Settings (Invited Speaker). IBC-2011The 9th International Symposium on In Vivo Body
Composition Studies. May 21-24, 2011. Hangzhou, China.

2011 **Chen Z.** The Opportunities and Challenges in Anthropologic Research (Invited
Speaker). Chinese Society for Anatomical Sciences Annual Meeting, August 8-10, 2011,
Guiyang, Guizhou, China.

2011 **Chen Z.** Serum Catabolic and Anabolic Biomarkers Associated with Sarcopenia
(Invited Speaker). Department of Public Health, Indiana University, Indianapolis. Sept 29,
2011.

PROFESSIONAL IMPROVEMENT

➤ Professional organizations

American Society for Epidemiologic Research

American Society for Bone and Mineral Research

➤ Conferences

2009 *American Society for Epidemiologic Research 42nd Annual Meeting, Anaheim, CA
- June 23-26. Theme: EPIDEMIOLOGISTS AS VECTORS FOR TRANSMITTING HEALTH*

2009 XIXth IAGG World Congress of Gerontology and Geriatrics, Paris, France July 5-
9.

2009 The 16th Congress of The International Union of Anthropological and Ethnological
Science. Kunming, China, July 28-31

2009 The American Society for Bone and Mineral Research Annual Meeting, Denver,
USA, September 10-15, 2009

GRANTS AND CONTRACTS

➤ **Federal**

Current

R01 HL050775-01 A1 (S GOING) 07/01/07 – 06/30/11 5%
NIH \$3,207,716 (Total direct)
Exercise and Bone Development
In Young Girls
Co-Investigator
To assess the effects of weight-bearing exercise on bone strength and bone macro-architectural structure after one and two years of intervention in pre- and early-pubertal girls.

R01 AG027373-01A1 (Z CHEN) 09/15/07 –06/30/12 25%
NIH/NIA \$612,099 (first year total)
Biomarkers and Genetic Factors Related \$3,049,243 (total)
to Sarcopenia in Older Women
PI
To investigate genetic determinants and biological indicators for skeletal muscle loss in older Hispanic and non-Hispanic white women.

1R21AR060811-01 (Z CHEN & Samy Missoum) 09/01/2011 – 08/31/2013 5%
A New Hip Fracture Risk Prediction Tool \$165,623 (First Year TOTAL)
Based on Common Predictors and Hip
Geometry
To develop a new prediction model for hip fractures in older women using hip geometry and other conventional predictors as innovative modeling approaches

Mini grant by MEZCOPH (Z CHEN) 05/01/2011---12/30/2012
Reduce Social Isolation in the Elderly \$40,000 (Total)
To pilot an investigation on whether using physical activity and computer instruction can reduce social isolation in the elderly.

Past

1 R01 AG029133-01 (Z CHEN) 05/15/07 – 4/29/11 15%
NIH/NIA \$640,805 (total)
Anemia and Its Relationship with Sarcopenia,
Physical Function, and Mortality
PI
To investigate health impacts of anemia and to examine best hemoglobin cutoff points for defining anemia in different age and ethnic groups of older women.

1R01 AR049411-01 (Z CHEN)
NIH/NIAMS 07/01/03 - 06/30/10 30%
Longitudinal Changes in Hip Geometry \$1,731,411 (Direct)
and Skeletal Muscle \$2,063,019 (Total)
PI
To study aging and intervention effects on bone strength and the impact of muscle loss on bone strength in both the observational study and clinical trials in the Women's Health Initiative Study.

Supplement to 1R01 AR049411-01 (Z CHEN) NIH/NIAMS Longitudinal Changes in Hip Geometry and Skeletal Muscle: Research Supplements to Promote Diversity in Health Related Research. PI & Mentor To provide research training opportunity for a minority doctoral candidate to engage in arthritis research among multiethnic groups of older people.	07/01/06 – 6/30/10 \$108,245 (total)	1%
ES06694 SWEHSC pilot program (Z CHEN) NIH PI Arsenic Exposure and Women's Health To explore the impact of arsenic exposure on multiple health outcomes, including osteoporosis, sarcopenia, and breast cancer, among older Arizona women.	01/25/2008-01/24/2009 \$40,000 (Total direct)	1%
1 K01 AR 02060-01(CHEN) NIH Ethnicity, Body Composition, Bone Density and Breast Cancer Principal Investigator	10/1/97 - 6/30/2003 \$337,434	75%
Canyon Ranch Restricted Funds (CHEN) Arizona Prevention Center, U of A Increased Osteoporosis Awareness Among the Elderly Living in Inner City Principal Investigator	2/15/99-6/30/01 \$20,000	2%
Cancer Prevention and Control Small Grant (CHEN) Arizona Cancer Center/NCI Feasibility Study on Breast and Bone Density Measurements Principal Investigator	2000-2001 \$31,246	5%
RO1 CA78802 (GIULIANO) NIH/NCI Four Corners Collaborative Case-Control Study Co-investigator	7/1/99-6/30/04 \$144,260	1%
R03CA105948-01 (MASKARINEC) NIH/NCI Small Grants Program for Epidemiology Breast Density, IGF-I, & Prolactin in Four Populations Co-investigator	09/01//03 – 09/01/05 \$100,000 (direct costs)	1%
DAMS 17-02-1-02721 Department of Defense (ARENDELL) Relationship between Mammographic Density and IGF Levels among Hispanic and Non-Hispanic White Women Mentor	July 02- June 05 \$65,498	1%

NIH-2R01-AR39559-04A3 (BASSFORD) NIH Women' s Health Initiative (WHI); Vanguard Clinical Center Co-investigator	10/1/94 - 9/14/2005 \$12,000,000	1%
Supplementary Grant for WHI (CHEN) NIH Increase recruitment of Native American Principal Investigator	9/30/97-9/14/05 \$20,000	1%
NIH/NIA (1 R01 026463-01) AG (J. CAULEY) Hip Strength Across the Menopausal Transition <u>Consultant</u>	07/01/07 – 06/30/12	
Pilot project funded by Arizona Center on Aging Reduced phosphate absorption is associated with the development of osteoporosis in older population. Co-PI with Xu To investigate how absorption factors are related to risk of osteoporosis in older women.	08/30/09 -09/01/10 \$36,667 (total)	

➤ **State**

Past

Core Grant (CHEN) Arizona Arthritis Center Interdisciplinary Program for Osteoporosis Research PI	7/1/97 – 6/30/01 \$60,000	20%
Foreign Travel Grant (CHEN) University of Arizona International Affairs Foreign Travel Grant to the Third International Congress of Osteoporosis	3/25/99-4/5/99 \$500	

➤ **Industry**

Past

Educational Grant (CHEN) Marion Lab. Kansas City Relationship between Bone Mineral Density, Body Composition, Nutrient Intake and Physical Activity PI	4/1/93 – 3/31/95 \$5,000	25%
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➤ **Private Foundation**

Past

The Susan G. Komen Breast Cancer	3/1/2001-10/31/2004	10%
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Foundation (CHEN) The Association between Mammographic Density and Bone Mineral Density among White and Hispanic Women PI	\$249,924 (Total)	
Eli Lilly and Company (CHEN) Bone Density and Breast Cancer Risk PI	12/15/05 ---12/14/06 \$78,880	5%
The Susan G. Komen Breast Cancer Foundation (C. THOMSON) Green Tea Intervention for Weight Gain Prevention among Women with Breast Cancer Co-investigator	5/15/04 – 7/15/06 \$248,988 (Total)	2%
<u>Pending</u> NIH (Serrine Lau) SWEHC (Center Grant)	5/1/2012—4/30/2017 \$5,000,000	15%

Co-investigator and Human Studies Resource Director

This is a true and accurate statement of my activities and accomplishments. I understand that misrepresentation in securing promotion and tenure may lead to dismissal or suspension under ABOR Policy 6-201 J. 1. B.

Zhao Chen, Ph.D., MPH

Signature

Date

EVALUATION OF TEACHING AND ADVISING

□ Extent of Teaching

1996-1997	EPID515H Cancer Epidemiology (team teaching)
1997-1998	EPID545 Nutritional Epidemiology (guest lectures on body composition measurements, elderly nutrition)
1998 Fall	EPID596C Quantitative Epidemiology (co-director, 15 students)
1999 Fall	EPID596C Quantitative Epidemiology (co-director, 17 students)
2000 Spring	EPID545 Nutritional Epidemiology (guest lectures on body composition measurements, elderly nutrition)
2000 Fall	EPID596C Advanced Epidemiology (co-director, 21 students)
2000 Fall	CPH682 Maternal & Child Health Programs & Policy (guest lecture on osteoporosis screening)
2001 Spring	EPID545 Nutritional Epidemiology (guest lectures on body composition measurements, elderly nutrition)
2001 Fall	EPID599 Independent Study (Jennifer Skye Nicolas)
2001 Fall	EPID596C Advanced Epidemiology (co-director, 8 students)
2001 Fall	CPH682 Maternal & Child Health Programs & Policy (guest lecture on osteoporosis screening)
2002 Spring	EPID599 Independent Study (Jennifer Skye Nicolas)
2002 Spring	EPID699 Independent Study (Leslie Arendell)
2002 Fall	EPID573C Advanced/Quantitative Epidemiology (director, 7 students)
2003 Spring	EPID673 Epidemiology of Aging (co-director, 4 students)
2003 Spring	EPID545 Nutritional Epidemiology (guest lectures on body composition measurements)
2003 Fall	EPID573C Advanced/Quantitative Epidemiology (director, 15 students)
2004 Spring	EPID673 Epidemiology of Aging (co-director, 6 students)
2004 Spring	EPID599 Independent Study (1 unit) Zuohe Song
2004 Spring	EPID910 Thesis (4 units) Zouhe Song
2004 Spring	EPID900 Research (2 units) Jennifer Skye Nicholas
2004 Fall	EPID 573C Advanced/Quantitative Epidemiology (director, 20 students)
2005 Spring	EPID673 Epidemiology of Aging (co-director, 7 students)
2005 Fall	EPID573C Advanced Epidemiology (director, 10 students)
2005 Fall	EPID-699-028 Independent Study
2006 Spring	EPID673 Epidemiology of Aging (co-director, 4 students)
2006 Spring	CPH 596n Internship Preparation (co-director, 39 students)
2006 Spring	CPH 545 Nutritional Epidemiology (guest lecture, 7 students)
2006 Spring	CPH 652 Grantsmanship for a Winning Proposal (guest lecture, 15 students)
2006 Spring	PhPr 865 Public Health Principles for Pharmacists (guest lecture, 31 students)
2006 Fall	EPID 573C Advanced/Quantitative Epidemiology (director, 10 students)
2006 Fall	CPH 596n Internship Preparation Class (director, 15 students)
2006 Fall	EPID 900 (042) Research 4 units for Skye Nicolas
2006 Fall	EPID 699 (028) Independent study 3 units for Clair Venker
2006 Fall	EPID 900 (001) Research 4 units for Leslie Arendell
2007 Spring	CPH 596n Internship Preparation Class (director, 42 students)
2007 Spring	EPID 699 Section 001 (4 units). Independent study for Nicole Wright
2007 Fall	EPI 573C Advanced/Quantitative Epidemiology (director, 8 students)

2008 Spring EPID 699 Section 040 (2 units) independent study for Nicole Wright.
 2008 Spring EPID 699 (1 unit) independent study for Huapin Sun
 2008 Spring CPH 630 Maternal and Child Health Epidemiology (guest lecture, 6 students)
 2008 Spring CPH 596n Internship Preparation Class (director, 51 students)
 2008 Spring CPH 545 Nutritional Epidemiology (guest lecture, 12 students)
 2008 Fall EPID 573C Advanced Epidemiology (director, 7 students)
 2008 Fall CPH 596n Internship Preparation Class (online director, 25 students)
 2008 Fall EPID 699 Independent study (3 units) for David Mosley
 2009 Spring EPID 699 Independent study (3 units) for Lysbeth Ford
 2009 Spring CPH 596n Internship Preparation Class (director, 33 students)
 2009 Summer CPH 596n Internship Preparation Class (director, 4 students)
 2009 Fall EPID 573C Advanced Epidemiology (director, 10 students)
 2009 Fall CPH596n Internship Preparation Class (director, 21 students)
 2009 Fall EPID 900 Research (5 units) for Guanglin Wu
 2010 Spring CPH 596n Internship Preparation Class (director, 36 students)
 2010 Spring EPID 920 Dissertation (3 units) for Leslie Arendell
 2010 Spring EPID 920 Dissertation (6 units) for Nicole Wright
 2011 Spring CPH678 Principle of Public Health Informatics (3 units) (director, 2 students—new course and was tested)
 2011 Fall EPID696a Epidemiology Seminar (1 unit) (director, 16 students)
 2011 Fall EPID573c Advanced Epidemiology (3 units) (director, 13 students)
 2012 Spring EPID573a Basic Principle of Epidemiology (3 units) (director, 37 students)
 2012 Spring EPID696a Epidemiology Seminar (1 unit) (co-director, 17 students)

□ **Teaching Award and Grants**

Current

Human Disease and the Interplay Between Genes and the Environment (NIEHA T32 HuGER Training Grant. Total cost = \$2,077,895. Funding period = 07/01/2008 to 06/30/2012). PI: Dr. Terrece Monks. My role: one of the seventeen core faculty cross campus.

Past

- Core faculty of the Arizona Geriatric Education Center (Grant #1 D31 HP 80006).
- Faculty Mentor of Cancer Prevention and Control Training Grant (NCI R25-CA09629)

□ **Individual Student Contact**

Advising

Semester

1999-2000

Lily Besantiago	(Undergraduate student, project advisor)
Michael L. Voloudakis	(Epi MPH, internship advisor)
Rafael Noriega	(Epi MPH, academic advisor)

2000-2001

Leslie Arendell (Epi MS, thesis director)
Cshandar Davis (Epi MPH, project advisor)
Ellen Cussler (Epi MS, thesis committee member)
Joe Miller (Epi MPH, internship committee member)

2001-2002

Leslie Arendell (Ph.D Candidate, dissertation director)
Jennifer S. Nicholas (Epi MS student, thesis director)
Roberta Bruhn (Epi Ph.D. Candidate, project advisor)
Jennifer Stewart (Epi MS student, project advisor)

2002-2003

Leslie Arendell (Epi Ph.D., dissertation director)
Jennifer S. Nicholas (Epi MS, thesis director)
Roberta Bruhn (Epi Ph.D., project advisor)
Jennifer Stewart (Epi MS, project advisor)
Zuohe Song (Epi MS, academic advisor)

2003-2004

Leslie Arendell (Epi Ph.D., dissertation director)
Jennifer S. Nicholas (Epi Ph.D., dissertation director)
Zuohe Song (Epi MS, thesis director)
Deepti Eshpande (Epi MPH, academic advisor)
Deborah Dufficy (Epi MPH, academic advisor)
Sanja Kaluza (Epi MPH, academic advisor)
Karen Cheman (Epi MPH, academic advisor)
Carols Moll (Epi MS, project advisor)
Roberta Bruhn (Epi Ph.D., project advisor)
Ling Chen (EPI Ph.D., dissertation director)
Nicole Wright (EPI MPH, project advisor)

2004-2005

Leslie Arendell (Epi Ph.D., dissertation director)
Jennifer S. Nicholas (Epi Ph.D., dissertation director)
Deepti Eshpande (Epi MPH, academic advisor)
Deborah Dufficy (Epi MPH, academic advisor, received MPH award and graduated in May, 2004)
Sanja Kaluza (Epi MPH, academic advisor)
Karen Cheman (Epi MPH, academic advisor and internship committee chair)
Carols Moll (Epi MS, project advisor and second reader for internship)
Roberta Bruhn (Epi Ph.D., project advisor)
Ling Chen (EPI Ph.D., dissertation director)
Nicole Wright (EPI MPH, project advisor and internship advisor)
Graciela Caire Juvera (Postdoctoral student and EPI MPH, academic advisor)
Guanglin Wu (Epi PhD., dissertation director)
Micky Levendusky (Epi MS, thesis director)
Cheryl LaCasse (Nursing Ph.D., doctoral committee member)

2005-2006

Leslie Arendell	(Epi Ph.D., dissertation director)
Jennifer S. Nicholas	(Epi Ph.D., dissertation director)
Nicole Wright	(EPI MPH & Ph.D., academic advisor, internship advisor & dissertation director)
Graciela Caire Juvera	(Postdoctoral student and Epi MPH, academic advisor & internship advisor, Dra. Graciela Caire Juvera Centro de Investigación en Alimentación y Desarrollo, A.C. Coordinación de Nutrición Depto. Nutrición Pública y Salud Tel. 289-2400 ext. 395 Fax: 280-0094)
Guanglin Wu	(Epi PhD., dissertation director)
Cheryl LaCasse	(Nursing Ph.D., doctoral committee member)
Juliana Pugmire	(Epi MPH, academic advisor)
Raysenia James	(Epi MPH, academic advisor)
Bonny Weed	(Epi MPH, academic advisor)
Katie Holton	(Epi MPH, academic advisor)
Michelle Gamber	(Epi MPH, academic advisor)
Sonia Fankem	(Epi MPH, internship committee chair)
Roberta Bruhn	(Doctoral dissertation committee chair)

Two students (Nicole Wright & Skye Nicholas) received FASEB MARC travel award (the student presenter's award) for their presentation at the ASBMR.

2006-2007

Leslie Arendell	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor)
Jennifer S. Nicholas	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor)
Nicole Wright	(EPI Ph.D., academic advisor, dissertation director & doctoral committee chair)
Guanglin Wu	(Epi PhD., academic advisor & dissertation director)
Cheryl LaCasse	(Nursing Ph.D., doctoral committee member)
Graciela Caire Juvera	(Postdoctoral student and Epi MPH, academic advisor & internship advisor, graduated in August 2006)
Sanja Kaluza	(Epi MPH, academic advisor, graduated in May 2006)
Juliana Pugmire	(Epi MPH, academic advisor & internship director Graduated in August 2007)
Raysenia James	(Epi MPH, academic advisor)
Katie Holton	(Epi MPH & Nutrition Ph.D., academic advisor & dissertation committee member for public health minor, received MPH in May 2006 with an internship presentation award)
Michelle Gamber	(Epi MPH, academic advisor and internship advisor)
Roberta Bruhn	(EPI Ph.D. Doctoral dissertation committee chair)
Julian Esparza	(EPI Ph.D. Doctoral dissertation committee member)
TereZ Yonan	(EPI MPH, Internship committee member, Graduated in May 2007)
Claire Venker	(EPI Ph.D., academic advisor)

Shannon Rock	(EPI MPH, academic advisor)
Jennifer Williams	(EPI MPH, academic advisor)
Jessica Wong	(EPI MPH, academic advisor)
Lori Stratton	(Biostats MPH, internship preceptor, graduated in August 2006 and received internship presentation award)
David Mosley	(EPI, Ph.D, doctoral dissertation committee chair)

2007-2008

Leslie Arendell	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor)
Jennifer S. Nicholas	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor), Native American
Nicole Wright	(EPI Ph.D., academic advisor, dissertation director & doctoral committee chair), African American
Guanglin Wu	(Epi PhD., academic advisor & dissertation director) (international student)
Cheryl LaCasse	(Nursing Ph.D., doctoral committee member)
Raysenia James	(Epi MPH, academic advisor & internship committee member, graduated in Nov. 2007) (Native American)
Katie Holton	(Epi MPH & Nutrition Ph.D., academic advisor & dissertation committee member for public health minor, received MPH in May 2006 with an internship presentation award)
Michelle Gamber	(Epi MPH, academic advisor, graduated in November 2007)
Roberta Bruhn	(EPI Ph.D. Doctoral dissertation committee chair, graduated in May 2008 RELATIONSHIP BETWEEN GLAUCOMA AND SELENIUM LEVELS IN PLASMA AND AQUEOUS HUMOR)
Julian Esparza	(EPI Ph.D. Doctoral dissertation committee member) (International student)
TereZ Yonan	(EPI MPH, Internship committee member, Graduated in May 2007) (Hispanic)
Claire Venker	(EPI Ph.D., academic advisor)
Shannon Rock	(EPI MPH, academic advisor, graduated in May 2008)
Jennifer Williams	(EPI MPH, academic advisor, graduated in May 2008)
Jessica Wong	(EPI MPH, academic advisor) (Asian American)
David Mosley	(EPI, Ph.D, academic advisor)
Chase (Vanessa) Barnes	(EPI MPH, academic advisor) (African American)
Jennifer Wright	(AzCC R25 postdoctoral fellow, Mentor)
Gail Braford	(EPI MS, thesis committee chair and graduate advisor) (Asian American)
Huaping Sun	(EPI PhD minor chair) (International student)
Pooja Budhiraja	(Renal fellow at the University of Arizona Medical Center, research mentor)
Karen D'Huyvetter	(EPI PhD, Dissertation Committee Chair)
Anahi Arana	(MPH, internship committee member)

Two students (Nicole Wright & Skye Nicholas) received FASEB MARC travel award (the student presenter's award) for their presentation at the ASBMR September 2007.

Three students (Guanglin Wu, Nicole Wright & Skye Nicholas) received ASBMR student travel award.

Nicole Wright received the first prize award for her poster at the Epidemiology Forum, MEZCOPH, spring 2007.

Nicole Wright received the second prize award for her poster at the UA student poster presentation, fall 2007.

Successfully supported Lubna Shaikh's application to Asian American Faculty, Staff, and Alumni Associate Grants Program to support 2007 Diversity Celebration.

2008-2009

Leslie Arendell	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor)
Jennifer S. Nicholas	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor), Native American
Nicole Wright	(EPI Ph.D., academic advisor, dissertation director & doctoral committee chair), African American
Guanglin Wu	(Epi PhD., academic advisor & dissertation director) (international student)
Cheryl LaCasse	(Nursing Ph.D., doctoral committee member)
Katie Holton	(Epi MPH & Nutrition Ph.D., academic advisor & dissertation committee member for public health minor, received MPH in May 2006 with an internship presentation award)
Claire Venker	(EPI Ph.D., academic advisor)
Jessica Wong	(EPI MPH, academic advisor) (Asian American)
David Mosley	(EPI, Ph.D, academic advisor)
Chase (Vanessa) Barnes	(EPI MPH, academic advisor) (African American)
Jennifer Wright	(AzCC R25 postdoctoral fellow, Mentor)
Gail Braford	(EPI MS, thesis committee chair and graduate advisor, Graduated in August of 2008) (Asian American)
Huaping Sun	(EPI PhD minor chair) (International student)
Pooja Budhiraja	(Renal fellow at the University of Arizona Medical Center, research mentor)
Karen D'Huyvetter	(EPI PhD, Dissertation Committee Chair)
Anahi Arana	(MPH, internship committee member) (Graduated in 2009)
Andriene Grant	(EPI PhD, academic advisor, Fulbright scholar from Jamaica) (International student)
Josh Farr	(PhD, doctoral committee member. Physiological sciences)

2009-2010

Leslie Arendell	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor)
Jennifer S. Nicholas	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor), Native American
Nicole Wright	(EPI Ph.D., academic advisor, dissertation director & doctoral committee chair), African American (graduated in Aug 2010)
Guanglin Wu	(Epi PhD., academic advisor & dissertation director) (international student)

Cheryl LaCasse	(Nursing Ph.D., doctoral committee member)
Katie Holton	(Epi MPH & Nutrition Ph.D., academic advisor & dissertation committee member for public health minor, received MPH in May 2006 with an internship presentation award)
Claire Venker	(EPI Ph.D., academic advisor)
Jessica Wong	(EPI MPH, academic advisor) (Asian American)
David Mosley	(EPI, Ph.D, academic advisor)
Jennifer Wright	(AzCC R25 postdoctoral fellow, Mentor)
Huaping Sun	(EPI PhD minor chair) (International student)
Pooja Budhiraja	(Renal fellow at the University of Arizona Medical Center, research mentor)
Karen D'Huyvetter	(EPI PhD, Dissertation Committee Chair)
Andriene Grant	(EPI PhD, academic advisor, Fulbright scholar from Jamaica) (International student)
Josh Farr	(PhD, doctoral committee member. Physiological sciences)
Timothy Krone	(EPI MPH, academic advisor)
Katelyn Galloway	(EPI MPH, academic advisor)
Kyle Mckeown	(EPI MPH, academic advisor)
Martin, Brittany	(EPI MPH, academic advisor)
Xiao (Lucy) Chen	(EPI MPH, academic advisor)
Yee Tchao	(EPI MPH, academic advisor)

Nicole Wright received the best student presentation award at the American College of Rheumatology Annual Meeting in 2009.

2010-2011

Leslie Arendell	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor)
Jennifer S. Nicholas	(Epi Ph.D., doctoral committee chair, dissertation director & academic advisor), Native American
Guanglin Wu	(Epi PhD., academic advisor & dissertation director) (international student)
Claire Venker	(EPI Ph.D., academic advisor)
David Mosley	(EPI, Ph.D, academic advisor)
Andriene Grant	(EPI PhD, academic advisor, Fulbright scholar from Jamaica) (International student)
Josh Farr	(PhD, doctoral committee member. Physiological sciences) (Graduated in May, 2011)
Timothy Krone	(EPI MPH, academic advisor) (Graduated in Aug, 2011)
Katelyn Galloway	(EPI MPH, academic advisor) (Graduated in May, 2011)
Kyle Mckeown	(EPI MPH, academic advisor and internship chair)
Martin, Brittany	(EPI MPH, academic advisor and internship chair)
Xiao (Lucy) Chen	(EPI MPH, academic advisor and internship chair)
Yee Tchao	(EPI MPH, academic advisor and internship chair)
Mohammed Alzoubaidi MD	(EPI MPH, academic advisor)
Wangjing Ke	(EPI MPH, academic advisor)
Jennifer Menefee	(EPI MPH, academic advisor)
Connie Chung	(EPI MPH, academic advisor)
Rebecca Ragar	(EPI MPH, academic advisor)

Wayne Gerard

(EPI MPH, academic advisor)

□ Office hours

On average, four hours/week are designated as office hours to meet with students (other than the independent studies, and advising for thesis or dissertation). I also encourage students to make appointment to come to see me. On average, I spend 8-10 hours/week meeting with and writing to current students and potential applicants.

□ Theses directed last 5 years

Zuohe Song (Epi MS, thesis director and committee chair)

Gail Braford (EPI MS, committee chair)

□ Dissertations directed in last 5 years

Roberta Bruhn (EPI Ph.D. Dissertation committee chair)

□ Dissertations in progress

Leslie Arendell (Epi Ph.D candidate, dissertation director) ---- under my direction she received pre-doctoral fellowship from the Department of Defense and From the NIH R25 program at the Arizona Cancer Center.

Jennifer S. Nicholas (Epi Ph.D. candidate, dissertation director) – under my direction she received a NIH minority supplementary grant for the Women’s Health Initiative.

Guanglin Wu (Epi Ph.D. candidate, dissertation director)

Cheryl LaCasse (Nursing Ph.D. Candidate, doctoral committee member)

Nicole Wright (EPI Ph.D., doctoral committee chair and dissertation director, under my direction she has received a minority supplementary award for her dissertation research)

Katie Holton (Nutrition, Ph.D. Dissertation minor committee member)

David Mosley (EPI Ph.D. Doctoral committee chair)

Claire Venker (EPI Ph.D., Doctoral committee chair)

Karen D’Huyvetter (EPI PhD, Doctoral committee chair)

Josh Farr (PhD, doctoral committee member. Physiological sciences)

□ **Development and scholarly activity supporting teaching; use of technology; etc.**

I developed a large simulative epidemiological study database, which has been used in the EPI596C and later EPI573C by students for understanding chance, bias, confounding factors, and measurement errors in epidemiological study design, conduction and data analysis.

Since July 2002 Dr. Jane Mohler and I initiated a new course "Epidemiology of Aging". We have developed and implemented a class syllabus and lecture series contain aging and epidemiologic concepts and theories as well as real samples from epidemiologic research. In this course we encourage active learning and aim to integrate in-class and field experiences on aging research for students from diverse backgrounds.

In 2008, I worked with the Academic Affair office in the college for developing an online course for MPH internship preparation.

❑ **Evaluation of Teaching and Teaching Portfolio**

- ❑ Student Evaluations of Teaching – Quantitative Summary
 - ❑ Fall 1999 – No evaluation under my name since I was not listed as for co-directing the course
 - ❑ Fall 2000 – No evaluation due to data errors
 - ❑ Fall 2001 – EPID 573C: Overall Rating = 4.67 (Compar. Gp. = 3.76)
 - ❑ Fall 2001 – Lectures in EPID 645, EPI 696B – no formal evaluations
 - ❑ Fall 2002 -- EPID 573C: Overall Rating = 4.1 (Compar Gp. = 4.2)
 - ❑ Spring 2003 – EPID 673: no formal evaluation. This is a first-time course and because the course was only approved one day before the start of course registration, there was not enough time to adverse this course to students. Only 5 students enrolled and one student had to drop the course due to time overlap with another course.
 - ❑ Fall 2003 – EPID 573C: Overall Rating = 4.2 (Compar Gp = 4.2)
 - ❑ Fall 2005 – EPID 573C: Overall Rating = 4.5 (Compar Gp = 4.3)
 - ❑ Fall 2006 – EPID 573C: Overall Rating = 4.4 (Compare Gp = 4.3)
 - ❑ Fall 2007 – EPID 573C: Overall Rating = 3.5 (Compare Gp = 4.2)
 - ❑ Fall 2008 – CPH 596n: Overall Rating = 3.5 (Compare Gp = 3.9)
 - ❑ Fall 2008 – EPID 573C: Overall Rating = 4.2 (Compare Gp = 4.4)
 - ❑ Spring 2009 -- CPH 596n: Overall Rating = 3.5 (Compare Gp = 3.9)
 - ❑ Fall 2009 -- CPH 596n: Overall Rating = 3.5 (Compare Gp = 3.9)

- Fall 2009 – EPID 573C: Overall Rating = 4.6 (Compare Gp = 4.4)
- Peer Review (Div. Director)
 - Instructional preparation and planning – EPID 573C, EPID673, CPH596n
 - Scholarly activity supporting teaching
 - Attended Epidemiology conferences (supported by mentor)
 - Provide datasets to a number of classes and host internships
- Extent of Teaching – Determined by Div. Dir. & Exec. Comm.
- Contributions to Departmental Teaching – Critical, valuable and highly rated (see letter from Division Head)
- Comparison to other faculty (positive, according to Div. Dir. & teaching evaluations from students)
- Assessment of success of candidate's students – Most of my students are still in progress with their degree programs. Among them, Leslie Arendell has received a grant from the DOD for biomarker analyses in her dissertation research, and Jennifer S. Nicolas has received a minority supplement grant from NIH for supporting her dissertation research on physical function measurements among the participants in the Women's Health Initiative project. Leslie Arendell is also a NIH R25 predoctoral fellow at the Arizona Cancer Center. Nicole Wright has successfully applied and received a Travel Award from Federation of American Societies for Experimental Biology (FASEB) Minority Access to Research Careers (MARC) program this year to present a paper at the ASBMR meeting in September 23-27 2005. Both Nicole Wright and Jennifer S. Nicolas received FASEB MARC Travel Award for their presentation at the ASBMR meeting in September 16-19, 2007.
- Among the students who graduated, Rafael Noriega was studying medicine at the University of Chicago. Jennifer Stewart is working at the Arizona State Health Department. Dr. Joe Miller is professor of Ophthalmology, Optical Science and Public Health, and the Head of Department of Ophthalmology. Mr. Zuohe Song is currently working for the genetic analysis core at the Arizona Cancer Center. Dr. Roberta Bruhn is working for a company in Phoenix conducting clinical trials.