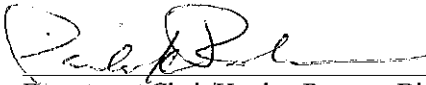
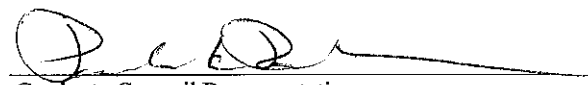


UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES
GRADUATE FACULTY APPLICATION

1. Name: Fei Wan
2. UAMS Graduate Program Sponsor: _____ Major field: Biostatistics
3. Present UAMS academic title or administrative position: Assistant Professor
- Date appointed this rank/position: 09/01/2016 Employed by: UAMS/Biostatistics

4. **Comments of Department Chair/Head or Program Director including: evidence of scholarly development, effectiveness as a teacher, quality of publications and reallocation of duties if this application is approved.**


Dr. Wan is a talented assistant professor in the Department of Biostatistics. He is publishing cutting edge methods papers and engaging in collaborative research with other UAMS departments. He will begin teaching in our education programs later this year and is already being asked to serve on student committees. These activities are part of the expectation of his position, and so no reallocation of duties is required.


 2/23/17 
Department Chair/Head or Program Director Date Graduate Council Representative

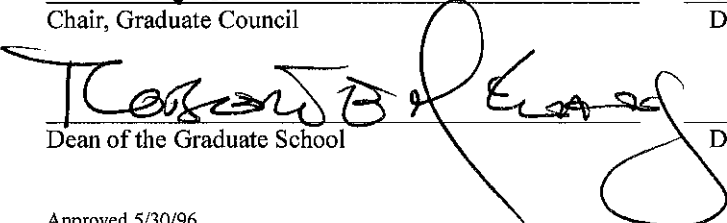
I have read the comments of my Department Chair/Head or Program Director and I do, do not (circle one) wish to supply additional information in support of my application.

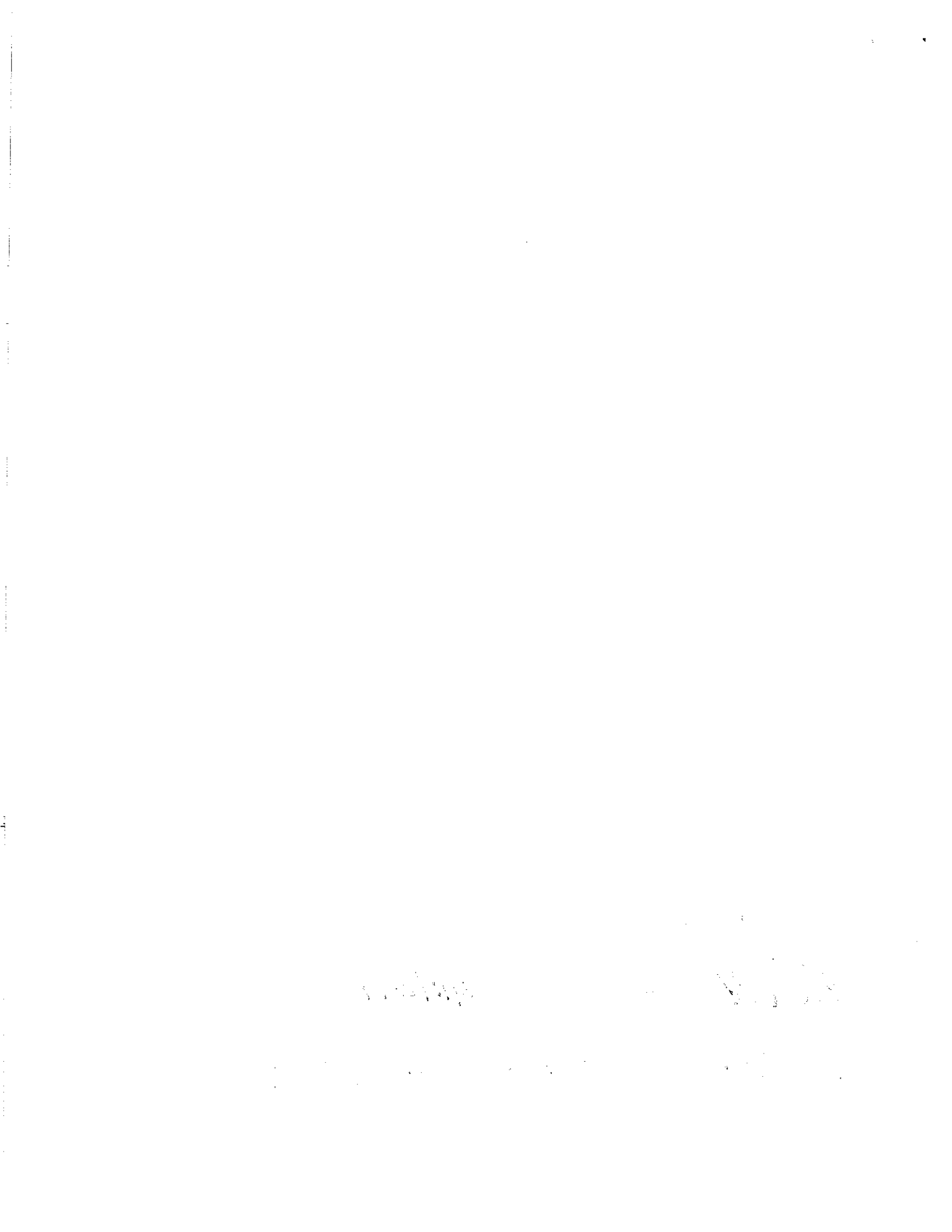
 2/24/2017
Applicant's Signature Date

Approvals

 3/16/17
Chair, Graduate Faculty Committee Date

 3/16/2017
Chair, Graduate Council Date

 3/16/2017
Dean of the Graduate School Date



5. **List your planned involvement in graduate education (courses, theses, dissertations):**

Serve as a biostatistician in dissertation committee for Nicole Ward (College of Nursing)

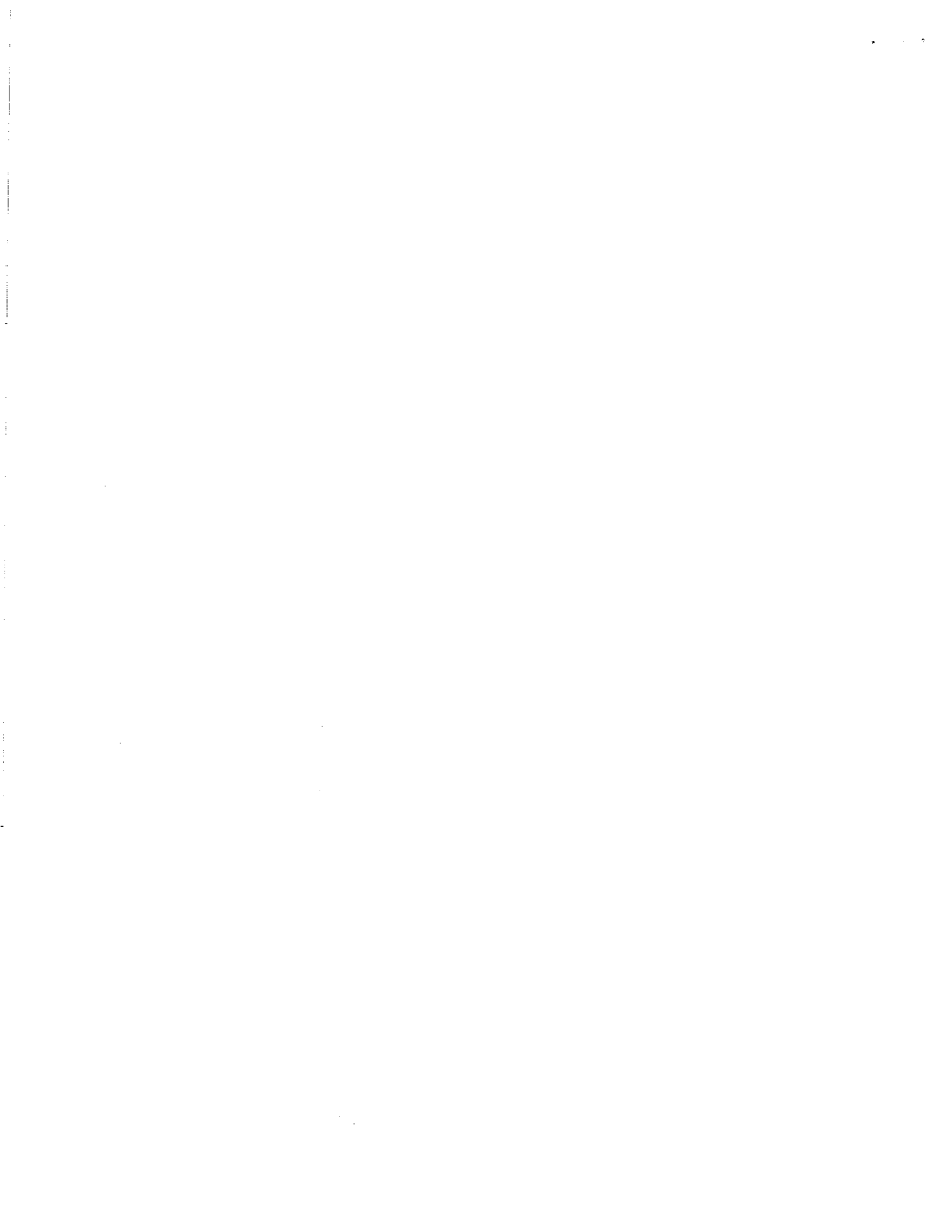
6. **Briefly summarize your experience in graduate-level classroom teaching:**

Guest lecture for UAMS Department of Epidemiology

7. **Briefly summarize your experience in research and student research mentoring:**

I have been working in the Center for Clinical Epidemiology and Biostatistics of University of Pennsylvania Medical School, and Group Health Research Institute as a collaborative biostatistician and have extensive research experience on comparative effectiveness studies, large data-base health services research, genetic epidemiology studies, and randomized clinical trials. My methodological research focus on causal inference and survival analysis.

8. **Attach Curriculum Vita** showing educational background (including institutions attended, degrees awarded and dates), honors or awards received, scholarly or professional organization affiliations, teaching experience (give school, dates and advanced and graduate subjects taught), including student theses and/or dissertations supervised. Cite publications and research in progress.



CURRICULUM VITAE

Fei Wan

Updated: November 23, 2016

1. BIOGRAPHICAL INFORMATION:

Fei Wan, Ph.D.
Assistant Professor
Department of Biostatistics, University of Arkansas for Medical Sciences
4301 W. Markham st., #781
Little Rock, AR 72205
Phone: (501)686-5353
Fax: (501)526-6729
Email: fwan@uams.edu

2. EDUCATION:

| | |
|---------------------------------------------------------------------------------------------|-------------------------------|
| Nanchang University, Nanchang, China | |
| B.S. in Economics | <i>Graduation:</i> July, 1996 |
| University of Vermont, Burlington, VT | |
| M.S. in Applied Statistics | <i>Graduation:</i> May 2001 |
| University of Cincinnati, Cincinnati, OH | |
| M.S. in Mathematics | <i>Graduation:</i> Sept 2004 |
| University of Pennsylvania, Philadelphia, Pennsylvania | |
| M.S. in Computer Science and Information Technology | <i>Graduation:</i> May 2009 |
| Ph.D. in Biostatistics | <i>Graduation:</i> Aug 2015 |
| · Dissertation Topic: | |
| Instrumental variable and propensity score methods for bias adjustment in non-linear models | |
| · Advisor: Dr. Nandita Mitra, Dr. Dylan Small | |

3. LICENSURE:

Not applicable

4. PROFESSIONAL POSITIONS:

| | |
|-----------------------------------------------------------------------------------------------------|-----------------------|
| Research Assistant | Sep 1999 to May 2001 |
| Dept of Mathematics and Statistics, University of Vermont, Burlington, VT | |
| Research Assistant | Sep 2002 to May 2003 |
| Dept of Mathematics, University of Cincinnati, Cincinnati, OH | |
| Research Biostatistician | Aug 2004 to July 2015 |
| Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA | |
| Assistant Investigator | Aug 2015 to Aug 2016 |
| Biostatistics Unit, Group Health Research Institute, Seattle, WA | |
| Assistant Professor | Sep 2016 to present |
| Department of Biostatistics, University of Arkansas for Medical Sciences, Little Rock, AR | |

5. HONORS, AWARDS, and SCHOLARSHIPS:

Young Investigators Award by the ASA Section on Statistics in Epidemiology, 2015

6. OTHER PROFESSIONAL ACTIVITIES

Referee for:
Infertility and Sterility

Human Reproduction
Observational studies
AIDS

Memberships:

American Statistical Association (ASA)
International Biometric Society WNAR
International Biometric Society ENAR

7. BIBLIOGRAPHY:

a) Peer-reviewed research articles-Application

1. Song H., Li G., Ye J., **Wan F.**, and Qian Y. (2004) Immunomodulating effects of cefodizime on *Klebsiella pneumoniae*-stimulated neutrophils. *Immunobiology* 209(3):277-82.
2. Wong Y.N., Mitra N., Hudes G., Localio R., Schwartz J.S., **Wan F.**, Montagnet C., and Armstrong K. (2006) Survival associated with treatment vs observation of localized prostate cancer in elderly men. *Journal of American Medical Association* Dec 13; 296(22):2683-93.
3. Abraham N., **Wan F.**, Montagnet C., Wong Y.N., and Armstrong K. (2007) Decrease in racial disparities in the staging evaluation for prostate cancer after publication of staging guidelines. *Journal of Urology* 178(1):82-7.
4. Wang X., **Wan F.**¹, Pan J., Yu G.Z., Chen Y., and Wang J.J. (2008) Tumor size: a non-neglectable independent prognostic factor for gastric cancer. *Journal of Surgical Oncology* Mar 1; 97(3):236-40.
5. Volpp K.G., Troxel A.B., Pauly M.V., **Wan F.**, DeGuzman J., Corbett E., Weiner J., and Audrain-McGovern J. (2009) A randomized, controlled trial of financial incentives for smoking cessation. *New England Journal of Medicine* 360(7):699-709.
6. Wang X., **Wan F.**¹, Pan J., Yu G.Z., Chen Y., and Wang J.J. (2009) Prognostic value of the ratio of metastatic lymph nodes in gastric cancer: an analysis based on a Chinese population. *Journal of Surgical Oncology* 99(6):329-34.
7. Gee R.E., Mitra N., **Wan F.**, Chavkin D.E., and Long J.A. (2009) Power over parity: intimate partner violence and issues of fertility control. *American Journal of Obstetrics and Gynecology* 201(2):148.e1-7.
8. Rebbeck T.R., Mitra N., Domchek S.M., **Wan F.**, Chuai S., Friebel T.M., Nathanson K.L., and Daly M.B. (2009) Modification of ovarian cancer risk by BRCA1/2-interacting genes in a multicenter cohort of BRCA1/2 mutation carriers. *Cancer Research*. 69(14):5801-10.
9. Schelleman H., Bilker W.B., Brensinger C.M., **Wan F.**, Yang Y.X., and Hennessy S. (2010) Fibrates/Statins initiation in warfarin users and gastrointestinal bleeding risk. *American Journal of Medicine* 123(2):151-7.
10. Furstenau D.K., Mitra N., **Wan F.**, Lewis R., Feldman M.D., Fraker D.L., and Guvakova M.A. (2010) Ras-related protein 1 and the insulin-like growth factor type I receptor are associated with risk of progression in patients diagnosed with carcinoma in situ. *Breast Cancer Research and Treatment* 129(2):361-72.
11. Chi L., Comyn F.L., Mitra N., Reilly M.P., **Wan F.**, Maislin G., Chmiewski L., Thorne-Fitzgerald M.D., Victor U.N., Pack A.I., and Schwab R.J. (2011) Identification of Craniofacial Risk Factors for Obstructive Sleep Apnoea Using Three-Dimensional MRI. *European Respiratory Journal* 38(2):348-58
12. Spurdle A.B., Marquart L., McGuffog L., Healey S., Sinilnikova O., **Wan F.**, Chenevix-Trench G., Rebbeck T.R. (2011) Common genetic variation at BARD1 is not associated with breast cancer risk in BRCA1 or BRCA2 mutation carriers. *Cancer Epidemiology, Biomarkers and Prevention* 20(5):1032-8.
13. Cai Q.F., **Wan F.**, Huang R., and Zhang H.W. (2011) Factors predicting the cumulative outcome of IVF/ICSI treatment: a multivariable analysis of 2450 patients. *Human Reproduction* 26(9):2532-40.
14. Rebbeck T.R., Mitra N., Domchek S.M., **Wan F.**, Friebel T.M., and Nathanson K.L. (2011) Modification of BRCA1-Associated Breast and Ovarian Cancer Risk by BRCA1-Interacting Genes. *Cancer Research* 71(17):5792-805.

15. Shinohara E.T., Mitra N., **Wan F.**, Kirschner A.N., and Metz J.M. (2011) Trends in the Use of Postoperative Radiation Therapy in Patients with Localized Resectable Pancreatic Cancer, *Journal of Clinical Oncology* 35(6):543-548.
16. Shinohara E.T., Kassae A., Mitra N., Vapiwala N., Plastaras J.P., Drebin J., **Wan F.**, and Metz J.M. (2012) Feasibility of electromagnetic transponder use to monitor inter- and intrafractional motion in locally advanced pancreatic cancer patients. *International Journal of Radiation Oncology · Biology · Physics* 83(2):566-73.
17. Perkins S.M., Mitra N., **Wan F.**, and Shinohara E.T. (2012) Patterns of care and outcomes of patients with pleomorphic xanthoastrocytoma: a SEER analysis. *Journal of Neurooncology* 110(1):99-104.
18. Corradetti M.N., Mitra N., Bonner Millar L.P., Byun J., **Wan F.**, Apisarnthanarax S., Christodouleas J., Anderson N., Simone C.B., Teo B.K., and Rengan R. A. (2013) moving target: Image guidance for stereotactic body radiation therapy for early-stage non-small cell lung cancer. *Practical Radiation Oncology* 3(4):307-15.
19. Wojcieszynski A.P., Berman A.T., **Wan F.**, Plastaras J.P., Metz J.M., Mitra N., and Apisarnthanarax S. (2013) The impact of radiation therapy sequencing on survival and cardiopulmonary mortality in the combined modality treatment of patients with esophageal cancer. *Cancer* 119(11):1976-84.
20. Cai Q., **Wan F.**, Huang K., and Zhang H.W. Does the number of oocytes retrieved influence pregnancy after fresh embryo transfer? (2013) *PLoS One* 8(2):e56189. doi: 10.1371/journal.pone.0056189.
21. Apter A.J., **Wan F.**, Reisine S., Bender B., Rand C., Bogen D.K., Bennett I.M., Bryant-Stephens T., Roy J., Gonzalez R., Priolo C., Have T.T., and Morales K.H. (2013) The association of health literacy with adherence and outcomes in moderate-severe asthma. *Journal of Allergy and Clinical Immunology* 132(2):321-327.
22. Swisher-McClure S., Mitra N., Lin A., Ahn P., **Wan F.**, O'Malley B., Weinstein G.S., and Bekelman J.E. (2013). Risk of fatal cerebrovascular accidents after external beam radiation therapy for early stage glottic larynx cancer. *Head and Neck* 36(5):611-616.
23. Perkins S.M., **Wan F.**, Mitra N., and Shinohara E.T. (2013) Late causes of death in children treated for CNS malignancies. *Journal of Neuro-Oncology* 115(1):79-85.
24. Apter A.J., **Wan F.**, Reisine S., Bogen D.K., Rand C., Bender B., Bennett I.M., Gonzalez R., Priolo C., Sonnad S.S., Bryant-Stephens T., Ferguson M., Boyd R.C., Ten Have T., and Roy J. (2013) Feasibility, acceptability and preliminary effectiveness of patient advocates for improving asthma outcomes in adults. *Journal of Asthma* 50(8):850-860
25. Cai Q., **Wan F.**, Appleby D., Hu L., and Zhang H.W. (2014) Quality of embryos transferred and progesterone levels are the most important predictors of live birth after fresh embryo transfer: a retrospective cohort study. *Journal of Assisted Reproduction and Genetics* 31(2):185-194.
26. Grande D., Mitra N., Shah A., **Wan F.**, and Asch D.A. (2013) Public preferences about secondary uses of electronic health information. *JAMA Internal Medicine* 173(19):1798-806.
27. Grover S., Mitra N., **Wan F.**, Lukens J.N., and Lin A. (2014) A Single-institution Comparison of Cetuximab, Carboplatin, and Paclitaxel Induction Chemotherapy Followed by Chemoradiation (CRT) Versus CRT for Locally Advanced Squamous Cell Carcinoma of the Head and Neck (LA-SCCHN) *American Journal of Clinical Oncology* doi: 10.1097/COC.000000000000085
28. Grande D., Mitra N., Shah A., **Wan F.**, and Asch D. (2014) The Importance of Purpose: Moving beyond Consent in the Societal Use of Personal Health Information. *Annals of Internal Medicine* 161(12):855-62.
29. Jiang Y.Q., Prabakaran I., **Wan F.**¹, Mitra N., Furstenau D., Hung R.K., Cao S.Y., Zhang P., Fraker D.L., and Guvakova M.A. (2014) Vav2 protein overexpression marks and may predict the aggressive subtype of ductal carcinoma in situ. *Biomarker Research* doi: 10.1186/2050-7771-2-22.
30. Grossman C.E., Mick R., Langer C.J., Lin A., **Wan F.**, Zhang Q., Ang K., Spencer S.A., Horwitz E.M., Wong S., Le Q., Kanetsky P.A. (2014) Prognostic Nomograms for Toxicity and Survival After Head and Neck Cancer Reirradiation and Chemotherapy: A Secondary Analysis of RTOG 9610 and 9911 *International Journal of Radiation Oncology, Biology, Physics* 90(1), S101.

31. Rebbeck T., Mitra N., **Wan F.**, Sinilnikova O., and Nathanson K. (2015) Association of Type and Location of BRCA1 and BRCA2 Mutations with Risk of Breast and Ovarian Cancer. *Journal of American Medical Association* 313(13):1347-61.
32. Apter A.J., Bryant-Stephens T., Morales K.H., **Wan F.**, Hardy S., Reed-Wells S., Dominguez M., Gonzalez R., Mak N., Nardi A., Park H., Howell J.T., and Localio R. Using IT to improve access, communication, and asthma in African American and Hispanic/Latino Adults: Rationale, design, and methods of a randomized controlled trial. *Contemporary Clinical Trials* S1551-7144(15)30059-8.
33. Jenessen B., Mitra N., Shah A., **Wan F.**, and Grande D. (2016) Using Digital Technology to Engage and Communicate with Patients: A Survey of Patient Attitudes. *Journal of General Internal Medicine.* 31(1):85-92.
34. Ventetuolo C.E., Mitra N., **Wan F.**, Manichaikul A., Barr R.G., Johnson C., Bluenke D.A., Lima J.A., Tandri H., Ouyang P., Kawut S.M. (2016) Oestradiol metabolism and androgen receptor genotypes are associated with right ventricular function. *European Respiratory Journal* pii: ERJ-01083-2015. doi: 10.1183/13993003.01083-2015.
35. Rebbeck T.R., Friebel T.M., Mitra N., **Wan F.**, Chen S., Ramus S.J. (2016) Inheritance of deleterious mutations at both BRCA1 and BRCA2 in an international sample of 32,295 women. *Breast Cancer Research* 18(1):112.

b) Peer-reviewed publication: Methodology

1. **Wan F.**, Small D., Bekelman J.E., and Mitra N. Bias in estimating the causal hazard ratio using two-stage instrumental variable methods. (2015) *Statistics in Medicine.* 34(14):2235-2265
2. **Wan F.**, and Mitra N. Bias of Propensity Score Adjusted Non-linear Models (2015) *Statistical Methods for Medical Research.* (2016) doi:10.1177/0962280216643739
3. **Wan F.** Simulating survival data with predefined censoring rates for proportional hazard model (2016) *Statistics in Medicine, accepted*

8. FUNDING HISTORY:

a) Funded Projects

1. Studying Colorectal Cancer Effectiveness of Screening Strategies (SuCESS) (U54 CA163261), PI: Chubak, NCI, Co-Investigator, 0.20 - 0.30 FTE, 07/20/2015-12/30/2016
2. Risk-Based Breast Cancer Screening in Community Settings: Biostatistics and Data Management Core (P01 CA154292), PI: Miglioretti, Kerlikowske, NCI, Co-Investigator, 0.1 - 0.2 FTE, 07/20/2015-12/30/2016
3. Team-based Safe Opioid Prescribing (R18 HS023751), PI: Parchman, AHRQ, Co-Investigator, 0.05 FTE, 07/20/2015-12/30/2016
4. The Northwest Coalition for Primary Care Practice Support (R18 HS023908), PI: Parchman, AHRQ, Co-Investigator, 0.10 FTE, 07/20/2015-12/30/2016
5. Computable Algorithms for Identifying Opioid Abuse and Addiction (Study 3B), PI: Carrell, Co-Investigator, 0.30 FTE, 03/01/2016-12/30/2016

9. CONFERENCES and SYMPOSIUMS:

1. "Bias in Estimating the Causal Hazard Ratio Using Two-Stage Instrumental Variable Methods", Joint Statistical Meetings, Boston, MA (Aug. 2014)
2. "Bias in Estimating the Causal Hazard Ratio Using Two-Stage Instrumental Variable Methods", Group Health Research Institute Seminar, Seattle, WA (Jan. 2015)
3. "Assessing Bias in the Estimation of Causal Hazard Ratio Among Compliers Using Two-Stage Instrumental Variable Approaches", Joint Statistical Meetings, Seattle, WA (Aug. 2015)
4. "A new paradigm for evaluating the bias in two-stage instrumental variable models", University of Washington biostatistics causal inference working group seminar, Seattle, WA (Oct. 2015)

5. "A general framework for evaluating the bias in two-stage instrumental variable models", University of Arkansas for Medical Science, Department of biostatistics, Little Rock, AR (May, 2016)

10. TEACHING HISTORY:

Teaching Assistant Sept. 1999 to May. 2000
Dept. of Economics and Dept. of Mathematics and Statistics, University of Vermont

Courses:

- CDAE 254-Microeconomics for Applied Economics, Fall 1999
- CDAE 295-Data Management and Analysis, Spring 1999
- STAT141-Basic Statistical Methods, Fall 2000

Teaching Assistant Sept. 2001 to May. 2002
Dept. of Mathematics, University of Cincinnati

Course:

- Math 1061-Calculus I, Fall 2001
- Math 1062-Calculus II, Winter 2002
- Math 1062-Calculus III, Spring 2002

Teaching Assistant Jan. 2012 to May. 2012
Dept. of Epidemiology and Biostatistics, University of Pennsylvania

Course:

- EPID 803-Biostatistics in Practice, Spring 2012

