

Zhiyi Tian

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EDUCATION

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|---|-----------------------|
| Ph.D, Quantitative Methods at Krannert
Purdue University, West Lafayette, IN | August 2015 - present |
| Master of Science, Biostatistics
University of Michigan, Ann Arbor, MI | April 2006 |
| Master of Arts, Applied Mathematics
Eastern Michigan University, Ypsilanti, MI | June 2004 |
| Bachelor of Engineering, Electric Works and Automation
Qingdao University, P. R. China | July 2001 |

WORK EXPERIENCE

Purdue University, Regenstrief Center for Healthcare Engineering West Lafayette, IN
Data Analyst Aug. 2008 - August 2015

- Responsible for large-scale data quality assurance and statistical methodology applications to research
- Participate in developing prediction models for 30-day all cause preventable hospital readmission.
- Study the impact of no-show to primary care appointments on healthcare utilization
- Evaluate the usability of medical claims to assess adherence of prenatal care evidence based guideline for Indiana Medicaid population.
- Develop and validate analytic methodologies to establish a price methodology for bundled payment contracting which mitigates financial risk for both providers and purchasers.

University of Michigan, Geriatrics Center **Ann Arbor, MI**
Research Lab Specialist Intermediate June 2006 – Aug. 2008

- Managed and cleaned data for the longitudinal Health and Retirement Study by selecting appropriate subjects and variables, merging data files, transformation of data, and exclusion of outliers
- Performed statistical analyses of study on frailty, multimorbidity, disability and geriatric syndromes
- Prepared and interpreted statistical analysis results for presentation and publication
- Participated in writing of statistical method section
- Conducted power analysis, manage and clean data, and perform data analysis for a randomized controlled trial: a sub-maximal exercise rehabilitation intervention in sedentary older adults with diabetes

TEACHING EXPERIENCE

Instructor, MGMT 305 - Business Statistics

Purdue University, Spring 2017

PUBLICATION

1. McComb S., **Tian Z.**, Sands L., Turkcan A., Zhang L., Frazier S., Lawley M., *Cancelled Primary Care Appointments: A Prospective Cohort Study of Diabetic Patients*. J Med Syst (2017) 41: 53.
2. Turkcan A., Nuti L., DeLaurentis P., **Tian Z.**, Daggy J., Zhang L., Lawley M., Sands L., *No-show Modeling for Adult Ambulatory Clinics in B.T. Denton (ed.)*, Handbook of Healthcare Operations Management: Methods and Applications, International Series in Operations Research & Management Science 184, DOI 10.1007/978-1-4614-5885-2_10, © Springer Science+Business Media New York 2013
3. Nuti L., Lawley M., Turkcan A., **Tian Z.**, Zhang L., Chang K., Willis D., Sands L., *No-Shows to Primary Care Appointments: Subsequent Acute Care Utilization among Diabetic Patients*. BMC Health Services Research 2012, 12:304
4. Cigolle CT., Lee PG., Langa KM., Lee YY., **Tian Z.**, Blaum CS., *Geriatric conditions develop in middle-aged adults with diabetes*. J Gen Intern Med. 2011 Mar;26(3):272-9. Epub 2010 Sep 29.
5. Blaum CS., Cigolle CT., Boyd C., Wolff JL., **Tian Z.**, Langa KM., Weir DR., *Clinical complexity in middle-aged and older adults with diabetes: the Health and Retirement Study*. Med Care. 2010 Apr;48(4):327-34.
6. Cigolle CT., Ofstedal MB., **Tian Z.**, Blaum CS., *Comparing models of frailty: the Health and Retirement Study*. J Am Geriatr Soc. 2009 May;57(5):830-9. Epub 2009 Apr 21.
7. Cigolle CT., Langa KM., Kabeto MU., **Tian Z.**, and Blaum CS., *Geriatric Conditions and Disability: The Health and Retirement Study*. Annals of internal Medicine. 2007 Aug 7;147(3):156-64.

SKILL

- Statistical software: SAS, R, STATA and SPSS.
- Programming languages: MATLAB, FORTRAN, C.

HONORS

- Award for Excellence in Graduate Mathematics (2004, Dept. of Math., EMU)
- Award for Service as a Graduate Assistant (2004, Dept. of Math., EMU)
- University Scholarship for Excellent Academic Performance (1999 & 2000, Qingdao University)