## CONTACT INFORMATION

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	400 W. 12th St.	Fax:	(573) 341-4741
	Rolla, MO 65409	E-mail:	wenx@mst.edu
		Web:	www.mst.edu/~wenx

# **RESEARCH INTERESTS**

Dimension reduction, variable and model selection, survival analysis, recurrent event data analysis, and statistical modeling in science and engineering.

## **EDUCATION**

June 2005	Ph.D. in Statistics
	Advisor: R. Dennis Cook
	University of Minnesota, Twin Cities
July 2000	M.S. in Operation Research and Control Theory
	Advisor: Hanfu Chen
	Chinese Academy of Sciences
July 1997	B.S. in Probability and Statistics
	Beijing (Peking) University

## **EMPLOYMENT**

08/12 Present	Associate Professor with Tenure, Department of Mathematics and Statistics, Missouri University of Science and Technology.	
08/0508/12	Tenure-track Assistant Professor, Department of Mathematics and Statistics, Missouri University of Science and Technology (formerly, University of Missouri, Rolla).	
09/0005/03	Teaching Assistant, School of Statistics, University of Minnesota.	
06/0306/05	Research Assistant, School of Statistics, University of Minnesota. (Except in Fall 2004 on graduate fellowship)	

## HONORS AND AWARDS

Fall 2004	Graduate Fellowship, School of Statistics, University of M	Iinnesota
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- 1996 Gangsong Scholarship for Academic Excellence, Beijing University
- 1995 Scholarship for Excellence in Mathematical Study, Beijing University

## SUPPORT AND FUNDING

- Hong Kong Baptist University, "Multi-Population Dimension Reduction", May 2013, HK \$18,000.
- Missouri Research Board, "On Partial Dimension Reduction with Applications to Partially Linear model", Dec. 2010 Dec. 2011, \$13,000.
- Hong Kong Baptist University, "On Inference and Variable Selection for Semiparametric Models with High Dimensional Predictors", Dec. 2010 Jan. 2011, HK\$ 30,000.
- 10<sup>th</sup> Meeting of New Researchers in Statistics and Probability, Salt Lake City, July 2007, travel fund of \$200.
- ENAR Workshop for Junior Researchers, Arlington, March 2008, travel fund of \$800.
- Missouri University of Science and Technology startup, Aug. 2005 Aug. 2008, \$5000.
- NSF Grant, "Model and Methods for Technical Target Setting in Software Quality Function Deployment", Dec. 2010 – Dec. 2013, Co-PI (30%), \$499,695, Non-funded.
- NSF Grant, "Multi-Population Sufficient Dimension Reduction", August. 2014 August. 2016, PI, \$82,600, submitted on Nov. 7, 2013.

## PUBLICATIONS

- Xuerong Meggie Wen, R. Dennis Cook (2007). Optimal sufficient dimension reduction for regressions with categorical predictors. *Journal of Statistical Planning and Inference*, **137**, 1961--1978.
- Xuerong Meggie Wen (2007). A note on sufficient dimension reduction. *Statistics and Probability Letter*, **77**, 817--821.
- Xuerong Meggie Wen, R. Dennis Cook (2009). New approaches to bivariate dimension reduction. *Journal of Statistical Planning and Inference*, **139**, 734--748.
- **Xuerong Meggie Wen**, C. Messan Setodji, Akim Adekpedjou (2009). A minimum discrepancy approach to multivariate dimension reduction via K-means inverse regression. *Journal of Statistics and Its Interface*, **2**, 503--511.
- Xuerong Meggie Wen (2010). On sufficient dimension reduction for proportional censorship model with covariates. *Computational Statistics and Data Analysis*, **54**, 1975--1982.
- Xuerong Meggie Wen (2010). Discussion of "Envelope models for parsimonious and efficient multivariate linear regression". *Statistica Sinica*, **27**, 987--988.
- Zhou Yu, Li-Xing Zhu, **Xuerong Meggie Wen** (2012). On model-free conditional tests for regressions. *Journal of Multivariate Analysis*, **109**, 61--72.

- Zhenhui Feng, Xuerong Meggie Wen (*co-first author and corresponding author*), Zhou Yu, Li-Xing Zhu (2013). On partial sufficient dimension reduction with applications to partially linear models. *Journal of the American Statistical Association*, **108**, 237--246.
- Akim Adekpedjou, Jonathan Quiton, **Xuerong Meggie Wen** (2013). Semiparametric inference with correlated recurrence time data. *Statistical Methodology*, **10**, 1--13.
- Bilin Zeng, **Xuerong Meggie Wen**, Li-Xing Zhu (2013). Sparse group sufficient dimension reduction with applications to gene pathway data. *Submitted*.
- Bilin Zeng, Zhou Yu, **Xuerong Meggie Wen** (2013). A note on cumulative mean estimation. *Submitted*.
- Xiaoming He, Zhu Wang, **Xuerong Meggie Wen**, Xu Zhang (2013). A stochastic collocation method based on sparse grid for Stokes-Darcy model with random hydraulic conductivity. *To be submitted*.
- Xuejing Liu, Zhou Yu, **Xuerong Meggie Wen**, Robert Paige (2013). On testing common indices for two multi-index models: a link-free approach. *Under final preparation*.
- Xuejing Liu, Zhou Yu, **Xuerong Meggie Wen**, Robert Paige (2014). Test for common dimension reduction subspaces for multiple datasets. *Under final preparation*.
- **Xuerong Meggie Wen**, Tao Wang, and Li-Xing Zhu (2014). Sufficient dimension reduction for multi populations. *Under preparation*.

## **CONFERENCE PRESENTATIONS**

- Optimal sufficient dimension reduction for regressions with categorical predictors. 2004 Joint Statistical Meetings, Toronto, August 2004.
- A new method for partial sufficient dimension reduction by using intra-slice information. 2005 Joint Statistical Meetings, Minneapolis, August 2005.
- Generalized K-means inverse regression. 2007 Joint Statistical Meetings, Salt Lake City, August 2007.
- The generalized inverse K-means regression. Tenth Meeting of New Researchers in Statistics and Probability, University of Utah, Salt Lake City, July 2007.
- Bivariate dimension reduction and variable selection when n<p. 2008 ENAR Meeting, Arlington, March 2008.
- Sufficient dimension reduction for proportional censorship model with covariates. 2009 Joint Statistical Meetings, Washington D.C., August 2009.
- Dimension reduction with categorical predictors via likelihood approach. 2010 Joint Statistical Meetings, Vancouver, August 2010.

• On partial sufficient dimension. 2011 Joint Statistical Meetings, Miami, August 2011.

# INVITED PRESENTATIONS

- Optimal sufficient dimension reduction for regressions with categorical predictors. Department of Statistics, University of Virginia, Charlottesville, February 2005.
- Optimal sufficient dimension reduction for regressions with categorical predictors. Department of Mathematics, University of Toledo, Toledo, March 2005.
- Introduction to dimension reduction for regressions. 2005 Microarray Research Coordination Network by UAB, New York, September 2005.
- Sufficient dimension with applications to survival analysis. Department of Mathematics and Statistics, Missouri University of Science and Technology, December 2010.
- On partial sufficient dimension reduction with applications to partially linear models. Department of Statistics, School of Management, Fudan University, Shanghai, June 2012.
- On partial sufficient dimension reduction with applications to partially linear models. School of Finance and Business, East China Normal University, June 2012.
- Multi population sufficient dimension reduction. Department of Mathematics, Hong Kong Baptist University, May 2013.
- Multi population sufficient dimension reduction. Institute for Financial Studies, Shandong University, May 2013.

## **STUDENTS**

#### **Doctoral Students**

• Bilin Zeng

Current Position: Tenure-track Assistant Professor, California State University, Bakersfield.

Dissertation Topic: Dimension Reduction with Applications to Gene Pathway Analysis, July 2013.

• Xuejing Liu (Co-adviser: Robert Paige)

Dissertation Topic: *Dimension Reduction for Multiple Datasets*. Anticipated completion: July 2014.

#### **Master Students**

• Xuejing Liu

May 2011. Continuing for Ph.D degree.

# TEACHING

#### Missouri University of Science and Technology

Instructor for th	e following courses:	
Stat 457	Advanced Mathematical Statistics (I)	
Stat 458	Advanced Mathematical Statistics (II)	
Stat 444	Design and Analysis of Experiments	
Math 410-2B	Graduate Seminar	
Stat 401	Special Problems (Categorical Data Analysis)	
Stat 343	Probability and Statistics (with online distance learning session)	
Stat 344	Mathematical Statistics	
Stat 346	Regression Analysis	
CS 366	Co-listed with Stat 346	
Stat 215	Engineering Statistics	
Stat 217	Introduction to Probability and Statistics	
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## University of Minnesota

Teaching Assistant for the following courses:

- Stat 3021 Introduction to Probability and Statistics
- Stat 5021 Statistical Analysis

# **PROFESSIONAL ACTIVITIES**

#### Appointments

- **Chapter Vice President**, Mid-Missouri Chapter of the ASA. January 2011 to present.
- Chapter Officer, Mid-Missouri Chapter of the ASA. January 2008 to 2010.

#### **Grant Reviewing**

• The Missouri Research Board, 2007 - present.

## Journal Referee

- Australian & New Zealand Journal of Statistics (2010 2011)
- Statistica Sinica (2006, 2011)
- Statistical Analysis and Data Mining (2010)
- Journal of Statistical Computation and Simulation (2007 present)
- Mathematical Reviews (2008 present)
- Journal of Multivariate Analysis (2011 present)
- Statistics and Probability Letter (2012)

• Journal of Computational and Graphical Statistics (2013)

# SERVICES AND CONSULTING

- Department New Faculty Hiring Committee, 2006, 2008, 2010, 2011.
- Consulting service to **Missouri S & T:** Ph.D students Hong Wang, Walter Casquino; Faculty Steve Gao, Xiaoping Du, Rosa Zhang, Joon-Ho Choi; **University of Minnesota**: served at Statistical Clinic in Fall 2003.
- Member of Department Policy Committee, Member of University Library Committee.
- Co-organizer of Department Graduate Student Seminar, Fall 2007, Spring 2008.
- Assisting DGS in evaluating graduate assistantship applicants from China.

## CONTINUING EDUCATION (post-doctoral)

- University Missouri System New Faculty Teaching Scholars, Fall 2006--Spring 2007.
- 10<sup>th</sup> Meeting of New Researchers in Statistics and Probability, Salt Lake City, July 2007.
- ENAR Workshop for Junior Researchers, Arlington, March 2008.