

Curriculum Vita

I. Biographical

Yuexiao Dong
Born September 25, 1983 (Hubei, P. R. China)
Country of citizenship: P. R. China
Residency status: Greencard

II. Education, College Level

Pennsylvania State University, Major: Statistics, M.S., Ph.D. (2004-2009)
Dissertation: *Dimension Reduction for Non-Elliptically Distributed Predictors*

Tsinghua University, Major: Mathematics, B.S. (2000-2004)

Academic Awards, scholarships, fellowships or grants obtained while a student

Pass with Distinction for Ph.D. Candidacy Exam, Pennsylvania State University (2006)
Eberly College of Science Fellowship Award, Pennsylvania State University (2004-2005)

III. Employment

Associate Professor (with tenure), Department of Statistical Science, Temple University (July 2016 - present)

Assistant Professor, Department of Statistical Science, Temple University (July 2009 - June 2016)

IV. Awards, Fellowships, Grants

Charles E. Gilliland Research Fellow, Fox School of Business, Temple University (07/2016 – 06/2019)

National Science Foundation, \$99999 (09/2011-08/2014), Title: New developments in sufficient dimension reduction. Role: PI (Sole Investigator). *Status: Completed*

High Achievements in Sponsored Projects, Fox School of Business, Temple University (2014)

Institute for Business and Information Technology Big Data Grant, Temple University, \$2500 (2013), Role: PI

Young Scholars Interdisciplinary Seed Fund, Temple University, \$500 (2011), Role: Co-PI

Young Scholars Interdisciplinary Seed Fund, Temple University, \$500 (2010), Role: Co-PI

V. Teaching

Temple University (ratings represent SFF item 8: The instructor taught this course well)

2018-2019 Academic Year

STAT 2521: Data Analysis and Statistical Computation (Undergraduate) 4.4/5.0

STAT 8103: Sampling Theory (Graduate) 4.7/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.8/5.0

2017-2018 Academic Year

STAT 8113: Statistical Methods for Business Research II (Graduate) 4.2/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.9/5.0

2016-2017 Academic Year

STAT 2512: Intermediate Statistics (Undergraduate) 4.1/5.0

STAT 8103: Sampling Theory (Graduate) 4.4/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.8/5.0

2015-2016 Academic Year

STAT 3503: Intermediate Business Statistics (Undergraduate) 4.8/5.0

STAT 2521: Data Analysis and Statistical Computation (Undergraduate) 4.2/5.0

STAT 8109: Linear Regression and Time Series (Graduate) 4.8/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.8/5.0

2014-2015 Academic Year

STAT 3503: Intermediate Business Statistics (Undergraduate) 4.7/5.0

STAT 2521: Data Analysis and Statistical Computation (Undergraduate) 4.2/5.0

STAT 8109: Linear Regression and Time Series (Graduate) 4.7/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.4/5.0

2013-2014 Academic Year

STAT 2521: Data Analysis and Statistical Computation (Undergraduate) 4.8/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.8/5.0

2012-2013 Academic Year

STAT 3503: Intermediate Business Statistics (Undergraduate) 4.8/5.0

STAT 2522: Survey Design and Sampling (Undergraduate) 4.8/5.0

STAT 2521: Data Analysis and Statistical Computation (Undergraduate) 4.5/5.0

STAT 8109: Linear Regression and Time Series (Graduate) 4.8/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.6/5.0

2011-2012 Academic Year

STAT 3503: Intermediate Business Statistics (Undergraduate) 4.8/5.0

STAT 2512: Intermediate Statistics (Undergraduate) 5.0/5.0

STAT 8109: Linear Regression and Time Series (Graduate) 5.0/5.0

STAT 8108: Applied Multivariate Analysis (Graduate) 4.9/5.0

2010-2011 Academic Year

STAT 2103: Business Statistics (Undergraduate) 3.6/5.0
STAT 8001: Probability Theory I (Graduate) 3.8/5.0
STAT 8002: Probability Theory II (Graduate) 3.9/5.0
STAT 8108: Applied Multivariate Analysis (Graduate) 4.8/5.0

2009-2010 Academic Year

STAT 2102: Selected Topics in Statistics (Undergraduate) 4.3/5.0
STAT 3503: Intermediate Business Statistics (Undergraduate) 4.4/5.0
STAT 8109: Linear Regression and Time Series (Graduate) 5.0/5.0
STAT 8108: Applied Multivariate Analysis (Graduate) 4.1/5.0

VI. Service Contributions

Ph.D. Dissertation Committee Chair

Abdul Soale, 4th year Ph.D. student
Chen Chen, 4th year Ph.D. student
Michael Power, 4th year Ph.D. student
Ahmad Alothman, Ph.D. of Statistics, graduated in Summer 2018
Qi Xia, Ph.D. of Statistics, graduated in Summer 2017
Yongxu Zhang, Ph.D. of Statistics, graduated in Spring 2017
Chaozheng Yang, Ph.D. of Statistics, graduated in Fall 2016
Angela Minster, Ph.D. of Statistics, graduated in Spring 2016

Ph.D. Dissertation Committee Member

Rich Nair, 4th year Ph.D. student
Kaijun Wang, Ph.D. of Statistics, graduated in August 2019
Scott Bruce, Ph.D. of Statistics, graduated in 2018
Zeda Li, Ph.D. of Statistics, graduated in 2018
Lauren Spirko, Ph.D. of Statistics, graduated in 2017
Elizabeth Gilbert, Ph.D. of Statistics, graduated in 2016
Andrew Gehman, Ph.D. of Statistics, graduated in 2015
Ke Huang, Ph.D. of Statistics, graduated in 2015
Yihuan Xu, Ph.D. of Statistics, graduated in 2014
Yu-Wei Chang, Ph.D. of Statistics, graduated in 2014
Ibrahim Turkoz, Ph.D. of Statistics, graduated in 2013
Alicia Strandberg, Ph.D. of Statistics, graduated in 2012
Bhramori Banerjee, Ph.D. of Statistics, graduated in 2011
Li He, Ph.D. of Statistics, graduated in 2011
Shuo Zheng, Ph.D. of Statistics, graduated in 2011

Ph.D. Dissertation External Examiner

Feipeng Zhao, Ph.D. of Computer & Information Sciences (CIS), graduated in 2017
Xin Li, Ph.D. of Computer & Information Sciences (CIS), graduated in 2015
Simwei Gao, Ph.D. of Risk, Insurance, & Healthcare Management (RIHM), graduated in 2013
Yang Yang, Ph.D. of Management Information Systems(MIS), graduated in 2011

Master Thesis Committee Chair

Yizhi Sun, Master of Statistics, graduated in 2010

Bachelor Thesis Committee Member

Xiaoran Zhang, Bachelor of Accounting, graduated in 2010

Service Activities At Temple University

Faculty Mentor to *Kenichiro McAlinn* (Statistics) (2019)
Faculty Mentor to *Konstantin Bauman* (MIS) (2018)
Faculty Mentor to *Kuang-Yao Lee* (Statistics) (2017)
Faculty Mentor to *Martina Mincheva* (Statistics) (2014)
Faculty Mentor to *Xu Han* (Statistics) (2012)
Faculty Mentor to *Jichun Xie* (Statistics) (2011)
Statistics Department Merit Committee (2009-2016, 2018)
Statistics Department Graduate Affairs Committee (2009-present)
Statistics Department Faculty Search Committee Chair (2016-2018)
Statistics Department Personnel Committee (2009, 2010, 2012)
Statistics Department Faculty Search Committee (2010-2012, 2019)
Statistics Department Seminar Organizer (2011, 2012)

Chair of Collegial Assembly of the Fox School of Business and Management (2016-2017)
Chair of Fox School Steering Committee (2016-2017)
Fox School Budget Review Committee (2015-present)
Fox School Merit Committee (2010, 2011, 2014, 2015)
Fox School Ph.D. Student Research Competition Evaluation Committee (2015, 2017, 2018, 2019)
Fox School Ph.D. Student Screening Exam Committee (2018)
Fox School Doctoral Program Committee (2012)
Fox School MBA/MS Planning Committee (2011, 2012)

Service Activities Outside the University Community

Associate Editor (2015 - present): Journal of Systems Science and Complexity

Ad-hoc Reviewer (Statistics Journals): Annals of Statistics, Biometrika, Journal of the American Statistical Association, Biometrics, Journal of Computational and Graphical Statistics, Technometrics, Statistica Sinica, Computational Statistics and Data Analysis, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Sankhya, Canadian Journal of Statistics, Scandinavian Journal of Statistics, Statistics and Probability Letters, Communications in Statistics, Statistics and Its Interface, Statistical Analysis and Data Mining, Journal of Statistical Computation and Simulation, Statistics in Biopharmaceutical Research, Survey Methodology, Journal of Business and Economic Statistics, Journal of Statistical Planning and Inference, International Statistical Review, Journal of Biostatistics and Biometric Applications

Ad-hoc Reviewer (Other Journals): Journal of Machine Learning Research, Econometrics, Journal of Economics and Business, Science China Mathematics, The Astrophysical Journal, Wiley Interdisciplinary Reviews, Chemometrics and Intelligent Laboratory Systems, Knowledge-Based Systems, Multivariate Behavioral Research

Ad-hoc Reviewer: National Security Agency (NSA) Mathematical Sciences Grant Program; National Science Foundation (NSF) Method, Measure & Stats

Special Session Organizer: “Big Data analysis: exploring methodological advances at the statistics-marketing interface.” Winter Marketing Educators' Conference 2013, American Marketing Association

VII. Research Contributions

Refereed academic journal articles

1. Dong, Y. and Li, Z. (2018). On sliced inverse regression with missing values. *Journal of Nonparametric Statistics*, 30, 990-1002.
2. Alothman, A., Dong, Y. and Artemiou, A. (2018). On dual model-free variable selection with two groups of variables. *Journal of Multivariate Analysis*, 167, 366-377.
* The first author is my Ph.D. student
3. Bharadwaj, N. and Dong, Y. (2018). Comment on “Statistical challenges of administrative and transaction data” by David J Hand, *Journal of the Royal Statistical Society, Series A*, 181, 555-605.
4. Dong, Y., Xia, Q., Tang, C. and Li, Z. (2018). On Sufficient Dimension Reduction with Missing Responses through Estimating Equations. *Computational Statistics and Data Analysis*, 126, 67-77.
* The second author is my Ph.D. student
5. Dong, Y. and Zhang, Y. (2018). On a new class of sufficient dimension reduction estimators. *Statistics and Probability Letters*, 139, 90-94.
* The second author is my Ph.D. student
6. Bharadwaj, N., Noble, C., Tower, A., Smith, L. and Dong, Y. (2017). Predicting Innovation Success in the Motion Picture Industry: The Influence of Multiple Quality Signals. *Journal of Product Innovation Management*, 34, 659-680.
7. Dong, Y., Kai, B. and Yu, Z. (2017). Dimension reduction via local rank regression. *Journal of Statistical Computation and Simulation*, 87, 239-249.

8. Xia, Q. and Dong, Y. (2017). On a new hybrid estimator for the central mean space. *Journal of Systems Science and Complexity*, 10, 783-805.
* The first author is my Ph.D. student
9. Yu, Z., Dong, Y. and Shao, J. (2016). On marginal sliced inverse regression for ultrahigh dimensional feature selection. *Annals of Statistics*, 44, 2594-2623.
10. Yu, Z., Dong, Y. and Zhu, L. X. (2016). Trace pursuit: a general framework for model-free variable selection. *Journal of the American Statistical Association*, 111, 813-821.
11. Artemiou, A. and Dong, Y. (2016). Sufficient dimension reduction via principal Lq support vector machine. *Electronic Journal of Statistics*, 10, 783 - 805.
12. Dong, Y. (2016). A note on moment-based sufficient dimension reduction estimators. *Statistics and Its Interface*, 9, 141-145.
13. Dong, Y. and Yang, C. (2016). Cluster-based least absolute deviation regression for dimension reduction. *Journal of Statistical Theory and Practice*, 10, 121-132.
* The second author is my Ph.D. student
14. Dong, Y., Yang, C. and Yu, Z. (2016). On permutation tests for predictor contribution in sufficient dimension reduction. *Journal of Multivariate Analysis*, 149, 81-91.
* The second author is my Ph.D. student
15. Yu, Z. and Dong, Y. (2016). Model-free coordinate test and variable selection via directional regression. *Statistica Sinica*, 26, 1159-1174.
16. Dong, Y., Yu, Z. and Zhu, L. P. (2015). Robust inverse regression for dimension reduction. *Journal of Multivariate Analysis*, 134, 71-81.
17. Bharadwaj, N. and Dong, Y. (2014). Towards further understanding the market sensing capability-value creation relationship. *Journal of Product Innovation Management*, 31, 799-813.
18. Yu, Z., Dong, Y. and Huang, M. (2014). General directional regression. *Journal of Multivariate Analysis*, 124, 94-104.
19. Dong, Y., Yu, Z. and Sun, Y. (2013). A note on robust kernel inverse regression. *Statistics and Its Interface*, 6, 45-52.
* The third author is my master student
20. Dong, Y. and Zhu, L. P. (2013). Direction estimation in single-index model with missing values. *Statistics and Its Interface*, 6, 379-385.
21. Yu, Z., Dong, Y. and Guo, R. (2013). On determining the structural dimension via directional regression. *Statistics and Probability Letters*, 83, 987-992.
22. Zhu, L. P., Dong, Y. and Li, R. (2013). Semiparametric estimation of conditional heteroscedasticity via single-index modeling. *Statistica Sinica*, 23, 1235-1255.

23. Dong, Y. and Yu, Z. (2012). Dimension reduction for the conditional k th moment via central solution space. *Journal of Multivariate Analysis*, 112, 207-218.
24. Dong, Y. and Zhu, L. P. (2012). A note on sliced inverse regression with missing predictors. *Statistical Analysis and Data Mining*, 5, 128-138.
25. Yu, Z., Dong, Y. and Fang, Y. (2010). Marginal coordinate tests for central mean subspace with principal Hessian directions. *Chinese Journal of Applied Probability and Statistics*, 26, 544-552.
26. Dong, Y. and Li, B. (2010). Dimension reduction for non-elliptically distributed predictors: second-order methods. *Biometrika*, 97, 279-294.
27. Dong, Y. and Zhu, L. P. (2010). Comment on “Envelope models for parsimonious and efficient multivariate linear regression”. *Statistica Sinica*, 20, 993-995.
28. Li, B. and Dong, Y. (2009). Dimension reduction for non-elliptically distributed Predictors. *Annals of Statistics*, 37, 1272-1298.

Referred book chapters

29. Dong, Y. and Yu, Z. (2016). Direction Estimation in a General Regression Model with Discrete Predictors. Z. Jin *et al. (eds.)*, *New Developments in Statistical Modeling, Inference and Application*, ICSA Book Series in Statistics.

Non-referred proceeding publications

30. Dong, Y. and Yu, Z. (2010). Estimating the central k th moment space via an extension of ordinary least squares. 2010 JSM Proceedings.
31. Li, B. and Dong, Y. (2009). Central solution space for dimension reduction. 2009 JSM Proceedings.

Monograph

32. Dong, Y. (2009). Sufficient dimension reduction for the conditional k th moment: a new approach through central solution space. VDM Verlag. ISBN-13: 978-3639220827.

Conference presentations

October, 2019, International Conference on Statistical Distributions and Applications, Grand Rapids, MI.

Title: On dual model-free variable selection with two groups of variables.

July, 2019, Joint Statistical Meetings, Denver, CO.

Title: On dual model-free variable selection with two groups of variables.

March, 2019, Cook's Distance and Beyond: A Conference Celebrating the Contributions of R. Dennis Cook, Minneapolis, MN.

Title: Sufficient dimension reduction via asymmetric least squares.

December, 2018, 11th International Conference on Computational and Methodological Statistics (CMStatistics 2018), Pisa, Italy.

Title: Model-free variable selection and screening with matrix-valued predictors.

June, 2018, 2nd International Conference on Econometrics and Statistics, Hong Kong.

Title: Transformed variable selection in sufficient dimension reduction.

June, 2018, ICSA Applied Statistics Symposium, New Brunswick, NJ.

Title: Transformed variable selection in sufficient dimension reduction.

May, 2018, Pennsylvania State University Statistics Department 50 Year Anniversary Conference, State College, PA.

Title: Transformed variable selection in sufficient dimension reduction.

December, 2017, 10th International Conference on Computational and Methodological Statistics (CMStatistics 2017), London, UK.

Title: Model-free variable selection for the regression mean.

August, 2017, Joint Statistical Meetings, Baltimore, MD.

Title: On sufficient dimension reduction with missing response through estimating equations.

June, 2017, ICSA Applied Statistics Symposium, Chicago, IL.

Title: Model-free variable selection for the regression mean.

June, 2017, 1st International Conference on Econometrics and Statistics, Hong Kong.

Title: Model-Free Variable Selection with Matrix-Valued Predictors.

December, 2016, ICSA International Conference on Global Growth of Modern Statistics in the 21st Century, Shanghai, China.

Title: Sufficient dimension reduction with multivariate response.

December, 2016, 9th International Conference on Computational and Methodological Statistics (CMStatistics 2016), Seville, Spain.

Title: Sufficient dimension reduction via principal Lq support vector machine.

June, 2016, ICSA Applied Statistics Symposium, Atlanta, GA.

Title: Trace pursuit for model-free variable selection with matrix-valued predictors.

October, 2014. International Conference on Advances in Interdisciplinary Statistics and Combinatorics, AISC 2014, Greensboro, NC.

Title: Sufficient dimension reduction with multivariate response.

August, 2014. Joint Statistical Meetings, Boston, MA.

Title: Sufficient dimension reduction via principal Lq support vector machine.

June, 2014. Joint Applied Statistics Symposium of International Chinese Statistical Association and Korean International Statistical Society, Portland, Oregon.

Title: Sufficient dimension reduction via principal Lq support vector machine.

June, 2014. International Symposium on Business and Industrial Statistics/Conference of ASA Section on Statistical Learning and Data Mining, Durham, NC.

Title: Model-free variable selection.

December, 2013. The 9th ICSA International Conference: Challenges of Statistical Methods for Interdisciplinary Research and Big Data, Hong Kong.

Title: Trace pursuit: a general framework for model-free variable selection.

July, 2013. IMS China, Chengdu, P. R. China.

Title: General directional regression.

February, 2013. Winter Marketing Educators' Conference, Las Vegas, Nevada.

Title: Structured dimension reduction for marketing with big data.

August, 2012. Joint Statistical Meetings, San Diego, California.

Title: Sufficient dimension reduction in data-rich marketing research.

May, 2012. Big Data Symposium, Institute for Business & Information Technology (IBIT) at the Fox School of Business, Temple University.

Title: In search of what counts in big datasets.

November, 2011. INFORMS Annual Meeting, Charlotte, North Carolina.

Title: Robustified inverse regression.

August, 2011. Joint Statistical Meetings, Miami, Florida.

Title: Applying new developments in dimension reduction techniques in statistics to data-rich marketing research.

July, 2011. IMS-China International Conference on Statistics and Probability, Xi'an, P. R. China.

Title: Robustified inverse regression.

June, 2011. ICSA 2011 Applied Statistics Symposium, New York City.

Title: A note on sliced inverse regression with missing predictors.

December, 2010. International Workshop on Emerging Issues and Challenges to Statistics, Xiamen, P. R. China.

Title: An iterative algorithm for dimension reduction with non-elliptically distributed predictors.

August, 2010. Joint Statistical Meetings, Vancouver, Canada.

Title: An iterative algorithm for dimension reduction with non-elliptically distributed predictors.

July, 2010. The Thirteenth Meeting of New Researchers in Statistics and Probability, Vancouver, Canada.

Title: An iterative algorithm for dimension reduction with non-elliptically distributed predictors.

May, 2010. Conference on Nonparametric Statistics and Statistical Learning, Ohio State University, Columbus.

Title: Dimension reduction for the conditional k th moment via central solution space.

March, 2010. Eastern North American Region/International Biometric Society Meeting, New Orleans.

Title: Dimension reduction for the conditional k th moment via central solution space.

August, 2009. Joint Statistical Meetings, Washington D.C.

Title: Central solution space for dimension reduction.

March, 2009. Eastern North American Region/International Biometric Society Meeting, San Antonio.

Title: Central solution space for dimension reduction.

Presentations at Department Colloquia

April, 2019. Department of Statistics, George Mason University, Fairfax, VA.

Title: On dual model-free variable selection with two groups of variables.

September, 2018. Department of Mathematical Sciences, New Jersey Institute of Technology, Newark, NJ.

Title: Model-free variable selection with matrix-valued predictors.

April, 2017. Department of Mathematical Sciences, Binghamton University, Binghamton, NY.

Title: Model-free variable selection with matrix-valued predictors.

October, 2016. School of Statistics, Renmin University of China, Beijing, China.

Title: Model-free variable selection with matrix-valued predictors.

February, 2016. Department of Applied Economics & Statistics, University of Delaware, Newark, DE.

Title: A review on sufficient dimension reduction.

October, 2014. Department of Business Analytics & Statistics, University of Tennessee, Knoxville, TN.

Title: A review on sufficient dimension reduction.

February, 2014. Department of Statistics, Kansas State University, KS.

Title: Model-free variable selection.

April, 2013. Department of Statistics, University of Illinois at Urbana-Champaign, IL.

Title: General directional regression.

October, 2012. Department of Mathematics and Statistics, University of Maryland Baltimore County, Baltimore, MD.

Title: Directional regression revisited.

October, 2012. Division of Biostatistics, Thomas Jefferson University, Philadelphia, PA.

Title: A review of sliced inverse regression and its variations.

September, 2012. Department of Management Science, University of Miami, Coral Gables, FL.

Title: Directional regression revisited.

April, 2012. Department of Statistics, George Mason University, Fairfax, VA.

Title: Directional regression revisited.

December, 2011. Department of Mathematical Sciences, Michigan Technological University, Houghton, MI.

Title: Robustified inverse regression.

July, 2011. School of Finance and Statistics, East China Normal University, Shanghai, P. R. China.

Title: New developments in sufficient dimension reduction.

January, 2009. Department of Statistics, Temple University, Philadelphia, PA.

Title: Dimension reduction for non-elliptically distributed predictors.

December, 2008. Department of Mathematics, University of New Orleans, New Orleans, LA.

Title: Dimension reduction for non-elliptically distributed predictors.