**Curriculum Vita**

**Z. Peter Chen**

## Department of Mathematics

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# Education

9/89‑‑5/94 **Ph. D.** in Mathematics, the University of Connecticut

Advisor: Evarist Gine

Research interests: Robust Statistics and Multivariate Analysis

6/96-8/96 Post-Doctoral Fellow, University of Wisconsin-Madison

9/83‑‑12/85 **MS** in Mathematics, Shanghai Jiao Tong University (China) 9/79‑‑7/83 **BS** in Mathematics, Fudan University (China)

# Teaching History

9/2004‑present Professor, Department of Mathematics, William Paterson University

9/1994‑8/2004 Assistant/Associate Professor, Department of Mathematics, WPU

1/1986‑8/1989 Lecturer, Department of Mathematics, Shanghai Jiao Tong University

1/2001-6/2001 Visiting Professor, Department of Statistics, Rutgers University

**Teaching**

1. Developed two graduate courses for Marketing department (Spring 2017)

BAN 5000 Calculus for Business Analytics

BAN 7300 Multivariate Statistics

1. Developed two new graduate courses for the Math department (Spring 2018)

Math 5720 Categorical data analysis

Math 5320 Methods of Inferential Statistics

1. Provided statistical consulting help for almost all Nursing graduate students’ research projects (minimum 20 Master degree students per semester, a few Doctoral students’ projects) 2006-2014.
2. Directed student research projects (capstone, Math 4900): at least one student per semester on average since 1994.
3. Directed at least ten independent study courses in the last few years.

**Refereed Publications**

1. Rethinking Academic Support: Improving the Academic Outcomes of Students in High-Risk STEM Courses with Synchronous Videoconferencing, (with Potacco, D. et.al) *Journal of College Student Retention: Research, Theory & Practice,* (2016), 1-20.
2. Partnerships in Learning: A Faculty-Academic Support Center Collaboration to Enhance STEM Student Success, (with Potacco, D. et.al), *Building bridges for student success: A sourcebook for colleges and universities,* Chapter: *in Part 5, Publisher: Norman, OK: Consortium for Student Retention Data Exchange., Editors: McLaughlin etc.* (2016), pp. 1-12.
3. A marketing incentive in academic support, (with Potacco, D. et.al) *The Learning Assistance Review, 18*(1), (2013) 28–45.
4. An optimal completion of the Product Limit estimator, (with Phadia, E.), *Statistics and Probability Letters,***76,** (2006) 913-919.
5. On the behavior of Tukey’s depth and median under symmetric stable distributions, (with D. Tyler), *Journal of Statistical planning and inferences,* **130,** (2004) 111-124.
6. Another approach to asymptotics and bootstrap of randomly trimmed means, (with Giné, E.) *Annals of Institution of Statistical Mathematics*, **56**, (2004) 771-790
7. On the finite sample breakdown points of redescending M-estimates of location, (with Tyler, D.) *Statistics and Probability Letters,* **69**, (2004) 233-242.
8. The Influence Function and Maximum Bias of Turkey’s median (With Tyler, D.), *Annals of Statistics*, **30** (2002) 1737-1759
9. Breakdown point of Schuster-Navarte’s location estimator, *Probability and Statistics Letters,* **48**, (2000) 283-286.
10. A note on bias robustness of the median, *Probability and Statistics Letters,* **38**, (1998) 363-368.
11. Independence dictates probabilities, (with Rubin, H and Vitale, R), Proceedings of American Mathematical Society. **125**, (1997) 3721-3723
12. A note on the best invariant estimator of a distribution function under the Kolmogorov-Smirnov loss, (with Phadia, E.), *Annals of Inst. Statist. Math.* **49**, (1997) 231-235
13. Bounds for the breakdown point of the simplicial median, *Journal of Multivariate Analysis*. **55**, (1995) 1-13
14. Robustness of the half space median, *Journals of Statistical Planning and Inferences*. **46**, (1995) 175-181
15. Estimators relate to U-Processes with applications to Multivariate medians: asymptotic normality, (with Arcones, M and Gine, E) *Annals of Statistics.* **22** (1994) 1460-1477.
16. An equivalent condition for continuous metric selection, *Journal of Mathematical Analysis and Applications.* **136**, (1988) 298-303
17. Continuous selection for set-valued mapping and fixed point theorems, *ACTA Mathematica Sinica.* **31,** (1988) 456-463.

And a few more refereed articles.

# Presentations (selected)

1. Two-hours invited talk, Shanghai Jiao Tong University, Math Dept, 5/2014
2. One-hour seminar talk, NJIT, Math Department. 10/2007
3. One-hour seminar talk, Statistics Department at Rutgers University, 10/2005
4. Invited Speaker, International Conference of Robust Statistics, 7/12-16, 2004
5. Invited Speaker, Special Session in Statistics of the Fall Eastern Sectional Meeting of the American Mathematical Society, 10/2003.
6. Keynote Speaker, “Where is the center of a distribution” Annual Regional Meeting of Mathematical Association of America-Michigan section, at Northern Michigan University, 10/1997
7. Invited Speaker, 1997 International Symposium on Contemporary Multivariate Analysis and its Applications, Hong Kong 1997

**One-hour seminar talks:**

1. University of Wisconsin-Madison, the center for mathematical science 1996
2. Columbia University Statistics department 1996
3. University of Connecticut, Mathematics Department 1995
4. Tufts University, Mathematics Department 1994
5. University of Connecticut, Statistics Department 1994

**Referee**

1. The Annals of Statistics
2. The Journal of American Statistical Association
3. Annals of the Institute of Statistical Mathematics
4. The Journal of Statistical Planning and Inferences
5. The Journal of Multivariate Analysis
6. The Statistics and Probability letters
7. The proceedings of the American Mathematical Society
8. The Statistical Papers
9. American Statistician

# Grant applications:

# 1. (2015, not funded) CO PI of *Proposal for New Jersey Community Development Corporation and William Paterson University Partnership: Conducting a need analysis for a Paterson Promise Neighborhood.*

2. 2003-2004, Co-PI of a NSF grant (funded) to the College of Science and Health for 2003-2004 which involved in developing a research courses sequence, CSH 1300 and CSH 2300, (together with other faculties)

3. Submitted research proposals to the NSF in1996 and 1997.

# Services

1. **Department:**

* Department Chair (Fall 2016 to Spring 2022)
* Department Council (many terms)
* Undergraduate Curriculum Committee (most of years before 2004)
* Faculty retention and tenure Committee (many times)
* Faculty Range adjustment Committee (many times)
* Faculty Promotion committee (many times)
* Faculty Search Committee (many times)
* Coordinator of Math 1300 (most of years before 20014)
* Advisor for Math Majors (for at least 10 years)
* Department Assessment Committee (many times)

1. **College and University:**

* Statistical consultant to the college community (2006-2014)
* College Assessment committee (2010-2014)
* Advisory Committee of the Center For Research (more than 10 years)
* Advisory Board for the college of Science and Health (more than 10 years)
* Senate Admission and Academic Standard Council (2003-2005)
* Senate Research Council (2000-2003)
* Senate Administrator’s Assessment Council, 2002-2004 and (2018 to 2019)
* University Parking Committee (2012-2016)