**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 General Statistics

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

9/83--12/85 **M. S.** in Mathematics, Shanghai Jiao Tong University (China) 9/79--7/83 **B. S.** 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. Since Fall 2023 I have taught

Math 5720 Categorical data analysis; Math 5310 Methods of Inferential Statistics; Math 5720 Applied Regression Analysis; Math 5300 Applied Probability,

1. In the last three years. I directed 3 graduate independent study projects (math7000), 3 capstone projects (Math 4900) and 1 undergraduate independent study project. Recent Refereed Publications

**Referred research publications**

1. The longitudinal retention of STEM students through a multifaceted mentoring and tutoring program; (with Levin et.al)[*; Mentoring & Tutoring: Partnership in Learning*](https://www.tandfonline.com/journals/cmet20)*,*Vol. 33 **(2025**), 62-81.
2. An exploration of self-perception of weight status, weight related variables, and preferences for weight management strategies among South Asians in the US (with M. Joseph et. Al), *Obesity*, Wiley. Vol. 15 **(2025) 1-8**.
3. 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.
4. 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.
5. A marketing incentive in academic support, (with Potacco, D. et.al) *The Learning Assistance Review, 18*(1), (2013) 28–45.

# Some representative publications in prestigious statistical journals

1. 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.
2. Another approach to asymptotics and bootstrap of randomly trimmed means, (with Giné, E.) ***Annals of Institution of Statistical Mathematics***, **56**, (2004) 771-790
3. The Influence Function and Maximum Bias of Turkey’s median (With Tyler, D.), ***Annals of Statistics***, **30** (2002) 1737-1759
4. A note on the best invariant estimator of a distribution function under the Kolmogorov-Smirnov loss, (with Phadia, E.), ***Annals of Institution of Statistical Mathematics****.* **49**, (1997) 231-235
5. 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.
6. Bounds for the breakdown point of the simplicial median, ***Journal of Multivariate Analys****is*. **55**, (1995) 1-13
7. Robustness of the half space median, ***Journals of Statistical Planning and Inferences***. **46**, (1995) 175-181
8. On the finite sample breakdown points of redescending M-estimates of location, (with Tyler, D.) *Statistics and Probability Letters,* **69**, (2004) 233-242.
9. An optimal completion of the Product Limit estimator, (with Phadia, E.), *Statistics and Probability Letters,***76,** (2006) 913-919.
10. Breakdown point of Schuster-Navarte’s location estimator, *Probability and Statistics Letters,* **48**, (2000) 283-286.
11. A note on bias robustness of the median, *Probability and Statistics Letters,* **38**, (1998) 363-368.
12. Independence dictates probabilities, (with Rubin, H and Vitale, R), Proceedings of American Mathematical Society. **125**, (1997) 3721-3723
13. Continuous selection for set-valued mapping An equivalent condition for continuous metric selection, *Journal of Mathematical Analysis and Applications.* **136**, (1988) 298-303
14. Some fixed point theorems, *ACTA Mathematica Sinica.* **31,** (1988) 456-463.

And a few more refereed articles in Chines.

# Presentations (selected)

1. Invited Speaker, International Conference of Robust Statistics, 7/12-16, 2004
2. Invited Speaker, Special Session in Statistics of the Fall Eastern Sectional Meeting of the American Mathematical Society, 10/2003.
3. **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
4. 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. **Tufts University**, Mathematics Department 1994

**Research in Progress**.

I am working on a project to implement computational part of doing robust t test that we established (it could be completing in two years).

**Services**

* Department council (Fall 2022- )
* Math Major Mentor (2023-)
* Department post tenure assessment committee (2023, 2024)
* UCC Data and Analysis committee (2024-)
* Master’s degree program Director (Fall 2025-)

**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