# Curriculum Vita
## Wooi K. Lim
### Professor of Mathematics

| (Home) | (Office) |
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| 33 Hidden Glen Drive | Department of Mathematical Sciences |
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## Education

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| _Ph.D. in Statistics_, December 1996, | Univeristy of Louisiana at Lafayette, Lafayette, LA 70504, USA |
| _M. S. in Statistics_, May 1988, | University of Texas at El Paso, El Paso, TX , USA |
| _M. S. in Mathematics_, May 1986, | University of Wisconsin at Milwaukee Milwaukee, WI, USA |
| B. S. in Computer Science, May 1984, | Northeast Louisiana University. Monroe, LA, USA |

## Specialization/Area of Expertise
Statistics—Specialize in Decision Theory, Estimation and Inferences.

## Career In William Paterson University
September 1999–Present:

(i) Professor of Mathematics, Department of Mathematics, William Paterson University.

- Tenure track Assistant Professor 1999–2004
- Tenured Assistant Professor 2005–2010
- Tenured Associate Professor 2011–2016
- Tenured Professor 2016–present

(ii) Courses Taught (in WPU):

- Math 1100 Contemporary Mathematics
- Math 1300 Elementary Statistics
- Math 1400 Quantitative Mathematics I
- Math 1450 Quantitative Mathematics II

- Math 2300 Statistics I
- Math 3240 Probability and Statistics
- Math 3320 Statistical Computing
- Math 3340 Applied Regression
- Math 4130 Experiment Design
- Math 4990 Capstone
- Eco 2110 Economics and Statistics
- Math 5320 Data Management and Statistical Computing (Graduate)
- Math 5720 Applied Regression Analysis (Graduate)

(iii) University and College Services:

- University Open Houses
- College Assessment Committee (2001–2004, 2009–2012 )
- Center for Research (2010–2015)
- College Technology Committee (2002)
- Senate Council for Assessment (2010, 2011)
- Senate Council for Election (2014–2018)
- Revised NUR 7100 Applied Biostatistics course outlines (2014)

(iv) Departmental Services:

- Proposed course outlines for graduate statistics courses (2015)
- Departmental By-Law Ad-Hoc committee (2014)
- Departmental Program Assessment Coordinator (2001–2004, 2010–2011)
- Math Fair Coordinator (2002–2003, 2007, 2008, 2010,2013–June 2014)
- Department Undergraduate Curriculum Committee (2001–2004)
- Math 1300 Coordinator (2001–2004, 2012–Present)
- Department Recording Secretary (1999–2000)
- Book Order Coordinator (1999–2005)
- Library Liaison (2001–2004)
- Election Officer (2001–2004, 2006–2007, 2011–2012, 2014)
- Department Assessment committee member (2001–2011)
- Math Lab Coordinator (2001–2008)
- Revised all statistics courses objectives and syllabuses – Math 1300, Math 2300, Math 3240, Math 3320, Math 3340, Math 4130 and Math 4210 so that their learning outcomes meet the University wide UCC SLOOs
- Crafted and proposed new upper level statistic courses, Math 4130 (Statistical Experimental Design)
- Proposed Statistics Minor Track (2012)

- Observed and peer evaluated adjunct faculty members (2005, 2006, 2008–present)
- Math Awareness Week committee member (2008)
- Retention and Tenure Committee (2008,2009,2010)
- Department Assessment Committee (for tenured professor) (2009)
- Department Hiring Committee (2012)

## Other Employment

Adjunct Professor of Statistics, New Jersey Institute of Technology (2011)

## Previous Employment

September 1995–1999:

(i) Visiting Professor of Statistics, Department of Mathematics & Statistics, University of New Orleans. Taught sophomore level through graduate level Statistics Courses .

1992-May 1995:

(i) Graduate Teaching Assistant. Taught sophomore level Mathematics and Statistics courses.

(ii) Statistical Consultant in the University Computer Lab.

## Refereed Research Publications

1. Tanaka, H., Pal, N., Lim W.K. On Second-order Improved Estimation of a Gamma Scale Parameter,Statistics : A Journal of Theoretical and Applied Statistics, 2019.

2. Tanaka, H., Pal, N., Lim W.K., On Improved Estimation Under Weibull Model, Journal of Statistical Theory and Practice, 2018; 12(1): 48–65.

3. Lim, W. K., Lim A. W., A Comparison of Usual t-Test Statistic and Modified t-Test Statistics On Skewed Distribution Functions, Journal of Modern Appled Statistical Method, 15(2), November 2016.

4. Tanaka, H., Pal, N., Lim W.K., On Improved Inferences for a Gamma Shape Parameter and its Implications, Statistics : A Journal of Theoretical and Applied Statistics, 2014, vol 49, 84–97.

5. Pal, N. , Lim, W.K. and A. Thongteeraparp, Inferences on the Standard Skew-Normal Distribution, Thailand Statistician, July 2012, 10(2) 225-246.

6. Ching, C-H, Pal, N., Lim, W.K. and Lin J-L. Comparing Several Population Means: A Parametric Bootstrap Method, and Its Comparison with Usual ANOVA F-Test as well as ANOM, Computational Statistics, 2010, vol 25 p 71-95.

7. Lim, W.K. and Pal, N., Estimation of a Normal Dispersion Matrix Using Shrinkage Correlation Estimators, Journal of Indian Statistical Society, 2008, vol 45, No. 2, pp 181-203.

8. Pal, N., Lim, W.K., and Ling, C-H. A Computational Approach to Statistical Inferences, 2007. Journal of Applied Probability and Statistics, Vol. 2, No. 1, pp. 13-35.

9. Pal, N. and Lim, W.K., On Intra-Class Correlation Coefficient Estimation, 2004. Statistical Papers, Vol. 45, pp. 209-392.

10. Pal, N. and Lim, W.K., Estimation of Circular Error Probable and Measuring the Accuracy of a Missile System, 2003. Statistical Methods published by the Cochin University of Science and Technology, India, Vol. 5, No. 2 (Special Issue on Statistics and Business), pp. 97-120.

11. Pal, N. and Lim, W.K., On the Coefficient of Multiple Determination in a Linear Regression Model, 2000. Journal of Italian Statistical Society, Vol. 7, No. 2, pp. 129-137.

12. Pal, N. and Lim, W.K., Shrinkage Estimation of a Correlation Coefficient and Two Examples with Real Life Data Sets, 1999. Journal of Statistical Computation & Simulation, Vol. 62, pp. 357-373.

13. Pal, N. and Lim, W.K., Second Order Properties of Intra-Class Correlation Estimators for a Symmetric Normal Distribution, 1999. The Canadian Journal of Statistics, Vol. 27, No. 1, pp. 163-172.

14. Pal, N. and Lim, W.K., Estimation of a Correlation Coefficient: Some Second Order Decision-Theoretic Results, 1999. Statistics and Decisions, Vol. 18, 185-203.

15. Pal, N. and Lim, W.K., Estimation of the Coefficient of Multiple Determination, 1998. The Annals of the Institute of Statistical Mathematics, Vol. 50, No. 4, pp. 773-788.

16. Pal, N. and Lim, W.K., A Note on Second Order Admissibility of the Graybill-Deal Estimator of a Common Mean of Several Normal Populations, 1997. Journal of Statistical Planning and Inference, Vol. 63, pp. 71-73.

## Book Publication

17. Pal, N., Jin, C and Lim, W. K. (2005). Handbook of Exponential and Related Distributions for Engineers and Scientists, QA273.6.P35, Chapman & Hall/CRC, Boca Raton, FL (**Without ART**).

## Research Article Under Preparation

18. What if sum of squares error is larger than sum of squares treatments in ANOVA?

## Reviewer of Articles for Journals

- Referee for the Journal of Statistical Planning and Inference

- Referee for the Journal of Systems Science and Complexity

- Referee for the World Applied Science Journal(2011)

- Referee for the Journal of Applied Statistics(2013)

- Referee for the Journal of Theoretical and Applied Statistics (2014)

- Referee for the Colombian Journal of Statistics (2014)

- Statistics (2015)

- Journal of Applied Statistics (2015)

- Journal of Mathematical and Computational Applications (2017)

- Journal of Mathematical and Computational Applications (2019)

## Scholarly Presentation

Presented at Center for Research, Mathematics Awareness Week.

## Internal and External Funding

Center for Research Grant (2000), Mini grant (2001)

## Consultations and Advises in WPU

- Advised and helped a graduate student to design and study various statistical methods that are useful for his Master degree thesis (2002).

- Reviewed and gave suggestions to improve a research articles written by a professor in the Communication Disorders (2002).

- Advised a former mathematics student, currently employed by a Pharmaceutical company. I showed him how to used a suitable statistical procedure to perform a data analysis. I also help him to analyze and interpret the statistical outputs from SAS (year 2000).

- Consult and helped a professor of Marketing and Management Science, to analyze her surveyed data set. Statistical methods and a statistical software (SAS) were use to summarize, analyze, evaluate her data set. Statistical methods such as Factor analysis, Principal Component analysis, Analysis of Variance, etc. were used to analyze her data set. Helped her to interpret the output from SAS (year 1999).