

SUDHIR PAUL'S RESUME

Department of Mathematics and statistics
401 Sunset Avenue
University of Windsor
Windsor, Ontario, N9B 3P4
Email: smjp@uwindsor.ca
website:web2.uwindsor.ca/math/paul/index.html
Tel: off:(519) 253-3000 ex 3035, home: (519) 966-5761
Fax: (519) 971-3649

EDUCATIONAL HISTORY

B.Sc (Honors), Dhaka University, 1966 (Statistics).
M.Sc. , Dhaka University, 1967 (Statistics).
M. Sc. University of Wales, 1974 (Statistics).
Ph. D. University of Wales, 1976 (Statistics).

HONOURS and AWARDS:

Fellow of the Royal Statistical Society

University Professor (the University's Highest award) in recognition of "distinguished achievements in teaching and wide national and international reputation for scholarship or creative or professional accomplishments."

2005 Faculty of Science Performance Awards, for best overall performance in research, teaching and service.

Fellow of the American Statistical Association (2006).

EMPLOYMENT

July 2005- University Professor
July 1988 - present, University of Windsor, Professor.
Jan. 2002 - June 2003, National University of Singapore, Visiting Professor.
July 1988 - June 1989, University of Waterloo, Visiting Professor.
July 1985- June 1988, University of Windsor, Associate Professor.
July 1982- June 1985, University of Windsor, Assistant Professor.
Oct. 1978 - June 1982, University of Kent at Canterbury, Lecturer.
Oct. 1976 - Sept. 1978, University of Newcastle Upon Tyne, Post-doctoral Research Associate.
April. 1973- Sept. 1973, University of Chittagong, Head of the Dept. of Statistics.

Nov. 1968- Sept. 1973, University of Chittagong, Assistant Professor.

Academic Experience

Courses taught at University of Chittagong (Nov, 1968- August, 1973):

Undergraduate: Introductory Statistics, Distribution Theory, Statistical Inference.

Graduate: Elements of Probability, Statistical Inference, Sample Surveys.

Courses taught at the University of Kent at Canterbury (1978-1982):

Undergraduate: Statistical Inference, Sample Surveys.

Graduate: Statistical Inference, Sample Surveys.

Professional: Sampling Theory to international professionals in the summers of 1980 and 1981.

Courses taught at the University of Windsor (1982-present):

Undergraduate: First year Calculus, Statistics for the sciences, Statistics for the Engineers, Mathematical Statistics at second and third year level, Regression Analysis, Design of Experiments, Theory of Sampling, Risk Theory.

Graduate: Multivariate Analysis, Discrete Multivariate Analysis, Generalized Linear Models, Experimental Design, Theory of Sampling and Surveys, Regression Analysis, Survival Analysis.

Courses taught at National University of Singapore (2002-2003):

Undergraduate: Survey Methodology, Survey Sampling Theory.

Graduate: Sampling from Finite Populations.

Professional Affiliations

Fellow, Royal Statistical Society.

Member, Canadian Statistical association.

Member, American Statistical Association.

Member, International Biometric Society.

Professional Activities

Serving different professional associations in Statistics over the years. Some are listed below.

- **Member, finance committee of the Statistical Society of Canada (2003-2006).**

- **Member of the committee on professional developments of the Statistical Society of Canada (2004-2006).**
- **Member, publications committee of the Statistical Society of Canada (2005-2008).**
- **Member, Pierre Robillard committee of the Statistical Society of Canada (2005-2008).**
- **Local representative for the Statistical Society of Canada (1989-2007).**
- **Chair, nominating committee, for the President of the International Indian Statistical Association for 2005-2006.**
- **Chair, nominating committee for Trustee of the International Indian Statistical Association for 2004-2006.**
- **Member of the selection panel, Ontario Graduate Scholarship Program (2003-2006)**
- **Member of the Liaison Committee of the Statistical Society of Canada (1996-97).**
- **Member of the Statistical Education Committee of the Statistical Society of Canada (1997-1998).**

Editorial Work:

- **Currently Associate Editor of The Journal of Statistics and Applications**

Have been reviewing papers for internationally reputed journals over the years. Some are listed below.

- **Canadian Journal of Statistics.**
- **Journal of the American Statistical Association.**
- **The American Statistician.**
- **Technometrics.**
- **Biometrics.**
- **Environmetrics.**
- **The Statistician,**
- **Journal of Royal Statistical Society, series C.**
- **Psychometrika, C.**
- **Communications in Statistics.**
- **Biometrika.**
- **Statistics in Medicine.**

- **Journal of Agricultural, Biological and Environmental Statistics.**
- **Biometrical Journal.**
- **Canadian Journal of Civil Engineering**

External examiner for Ph.D. theses:

Served as external examiner for

- **The Department of Statistics and Actuarial Sciences at the University of Waterloo. Three students in 1989, 1998 and 2005.**
- **Department of Epidemiology and Biostatistics, University of Western Ontario in 1984**
- **Department of Mathematics and Statistics, Concordia University in 1995.**

Reviewer for Granting Agencies:

Regularly review research grant proposals for NSERC (Natural Sciences and Engineering Council of Canada) and reviewed one NSF (National Science Foundation, United States).

University and Community Service

Served on a number of committees in the department and the University of Windsor since arrival in 1982.

a) Department of Mathematics and Statistics

Served different committees, such as, (i) Graduate Studies Committee, (ii) Undergraduate Studies, (iii) Search Committee, in the department. Most recent activities are listed below.

- **Chair, Graduate Studies Committee, Department of Mathematics and Statistics, University of Windsor (2004-2006).**
- **Member, Appointment, Promotion and Tenure Committee, Department of Mathematics and Statistics at the University of Windsor (2003 – 2004).**
- **Chair, Search Committee for the Head of the Department of Mathematics and Statistics, University of Windsor (2001-2002).**

b) The University of Windsor

Served different committees in the University. Most recent activities are listed below.

- **Member of Academic Planning Committee (2005-2006)**
- **Elected member of the Senate, University of Windsor (2004-2005).**
- **Member, senate Standing Committees (2004-2006).**
- **Member of Graduate Council (2004-2006)**
- **Member, search committee for Dean of Science, University of Windsor (2004-2005).**
- **Member, search committee, Associate Vice-President Research (2004-2005).**
- **Member, honorary degree committee (2004-2005).**
- **Member, promotions and tenure committee, School of computer Science (2004-2005).**
- **Member, search committee for Vice-President Research (2003-2004).**
- **Member, search committee for Head of the department of biology (2003-2004).**
- **Member, renewal committee of the Department of Earth Sciences (2003-2004).**
- **Member, appointment committee in the Faculty of Business (2003-2004).**
- **Member, search committee for Associate Dean of Science, University of Windsor (2003).**

c) Other important service:

- **Member of the Windsor Race Relations Board (2001-2002).**

RESEARCH INTERESTS:

Have been doing research in many important areas of Biostatistics.

- **Correlated Data (clustered/longitudinal)**
- **Generalized Linear Models,**
- **Categorical Data Analysis,**
- **Zero-inflated and over-dispersed count data regression models,**
- **Case-control data,**
- **Estimating equations,**
- **Random effects models,**
- **Frailty models,**
- **Measurement error,**
- **Missing data,**
- **Dose-response modeling.**

Graduate Student Supervision:

Supervised 7 M.Sc and 6 Ph. D students and 3 post-doctoral fellows. In addition currently supervising 2 Ph. D. students and three M.Sc. students.

Names of the graduate students and post-doctoral fellows:

a) M.Sc.

D.S. WINSTANLEY:	M.Sc 1981
S. C. ANAJE:	M.Sc 1982
R. K. BARNWAL	M.Sc. 1986
N. I. HO:	M.Sc. 1989
K. THIAGARAJAH	M.Sc. 1989
D. DENG	M.Sc. 1997
S. THEDCHANAMOORTHY	M.Sc. 1997
L. SAIED	M.Sc. 2005

b) Ph.D

R. K. BARNWAL	Ph. D. 1989
K. THIAGARAJAH	Ph.D. 1992
A. S. ISLAM	Ph. D. 1994
D. DENG	Ph.D. 2001
J. JIANG	Ph.D. 2004
K. SAHA	Ph.D. 2004

c) Post-doctoral fellows:

K.A. KHAN
T. BANERJEE
D. DENG

d) Current Graduate Students

Xuejun Zhu	M.Sc
Margarita Ruvina	M.Sc
Tasneem Zaira	Ph. D.
Azad M. Kazi	Ph. D.
Xuema Zhang	M.Sc.

e) Impact of graduate supervision:

All former graduate students and post-doctoral fellows have been well employed. All former Ph. D students are in academia.

- **Rajesh Barnwal is Professor at Tennessee State University,**
- **Rani Thiagarajah is Associate Professor at Illinois State University,**
- **Ali Islam is professor at Egerton University, Kenya,**
- **Dianliang Deng is Associate Professor at the University of Regina,**
- **Krishna Saha is Assistant Professor at Central Connecticut University.**

- Xing Jiang is Assistant Professor at King's College, University of Western Ontario.
- Kushnood Alam Khan is Senior Statistician, Statistics Canada
- Tathagata Banerjee is Professor of Statistics at Calcutta University.

PUBLICATIONS

Refereed Journal Publications:

1. **Paul S. R.** (2005). Testing goodness of fit of the geometric distribution: application to human fecundability data. Journal of Modern Applied Statistical Methods 4, 425-433.
2. Saha, K., and **Paul S. R.** (2005). Bias corrected maximum likelihood estimator of the intraclass correlation parameter for binary data. Statistics in Medicine 24, 3497-3512.
3. **Paul, S. R.**, Balasoorya, U., and Banerjee, T. (2005). Exact Fisher Information matrix of the Dirichlett- multinomial distribution. Biometrical Journal, 47, 230-236.
4. **Paul, S. R.** and Jiang, X. (2005). Testing Homogeneity of Several Location-scale populations. The Canadian Journal of Statistics 33, 131-143.
5. Saha, K., and **Paul S. R.** (2005). Bias Corrected maximum likelihood estimator of the negative binomial dispersion parameter. Biometrics 61, 180-186.
6. Deng, D. and **Paul, S. R.** (2005). Generalized linear model, zero- inflation and over- dispersion. Statistica Sinica 15, 257-276.
7. Jiang, X. and **Paul, S. R.** (2004). Testing means and variances of several Weibull Populations. International Journal of Statistical Sciences 3, 179-190.
8. **Paul, S. R.**, Xing, Jiang, Rai, S., and Balasoorya, U. (2004). Tests of treatment effect in pre-drug and post-drug count data. Statistics in Medicine 23, 1541-1554.
9. **Paul, S. R.**, Saha, K, and Balasoorya, U. (2003). An Empirical Investigation of Different Operating Characteristics of Several Estimators

- of the Intraclass Correlation in the Analysis of Binary Data. Journal of Statistical Computation and Simulation, 73, 507-523.
10. Paul, S. R. and Deng D. (2002). Score test for goodness of fit of generalized linear models to sparse data. Sankhya B, 64, 179-191.
 11. Paul, S. R. (2002). Studentized residuals. Encyclopedia of Environmetrics, 3, 1776-1780.
 12. Paul, S. R. (2001). Quadratic estimating equations for the estimation of regression and dispersion parameters in the analysis of proportions. Sankhya B, 63, 43-55.
 13. Paul, S. R. and Deng, D. (2000). Goodness of fit of generalized linear models to sparse data. Journal of the Royal statistical Society, B, 62, 323-333.
 14. Deng, D. and Paul, S. R. (2000). Score tests for zero-inflation in generalized linear models. The Canadian Journal of Statistics, 28, 563-570.
 15. Paul, S. R. (2000). Interval estimation of the intraclass correlation coefficient based on Bartlett's score procedure. Journal of the Italian Statistical Society, 6, 257-272.
 16. Banerjee, T. and Paul, S. R. (1999) An extension of Morel-Nagaraj's finite mixture distribution for modelling clustered data. Biometrika, 86,723-727.
 17. Paul, S.R. and Banerjee, T. (1998). Analysis of two-way layout of count data involving multiple counts in each cell. Journal of the American Statistical Association, 93, 1419-1429.
 18. Paul, S.R. and Islam(1998). Joint estimation of the mean and dispersion parameters in the analysis of proportions: a comparison of efficiency and bias. The Canadian Journal of Statistics, 26, 83-94.
 19. Paul, S.R. Thedchanamoorthy, S.(1997). Likelihood Based Confidence Limits For the Common Odds Ratio. Journal of Statistical Planning and Inference, 59, 279-289.
 20. Paul, S.R. (1996). Score tests for intraclass correlation in familial data, Biometricss, 52, 955-963.

21. **Thiagarajah, K.** and Paul, S.R. (1996). Interval estimation for the scale parameter of the two parameter exponential distribution based on time censored data. *Journal of Statistical Planning and Inference*, 59, 279-289.
22. **Paul, S.R.** and Thiagarajah, K. (1996). Asymptotic variance covariance of maximum likelihood estimators for the parameters of extreme value regression models for censored data. *Sankhya*, B, 28-37.
23. **Paul, S.R.** and Islam, A.S. (1995) Analysis of proportions based on parametric and semi- parametric models. *Biometrics*, 51, 1400-1410.
24. **Paul, S.R.** and Thiagarajah, K. (1993). C(α) Tests for the analysis of one-way layout of data having extreme value distribution. *The Statistician*, 42, 135-143.
25. **Paul, S.R.** (1992). A note on the U and V tests in the Behrens-Fisher problems - a letter to the editor. *Technometrics*, 34, 243-250.
26. **Paul, S.R.** and Fung, K.Y. (1992). Response to the letter to the editor by Ali and Simonoff - outliers in linear models. *Technometrics*, 34, 373-375.
27. **Paul, S.R.** and Donner, A. (1992). Small sample performance of tests of homogeneity of odds ratios in K 2x2 tables. *Statistics in Medicine*, 11, 159-165.
28. **Paul, S.R.** and Thiagarajah, K. (1992). Hypothesis tests for the one-way layout of Type II censored data from Weibull populations. *Journal of Statistical Planning and Inference*, 33, 367-380.
29. **Paul, S.R.** and Thiagarajah, K. (1992). Multi-sample test of equal gamma distribution scale parameters in presence of unknown common shape parameter. *Communications in Statistics: Theory and Methods*, 21, 1633-1650.
30. **Paul, S.R.** and Fung, K.Y. (1991). A generalized extreme studentized residual (GESR) multiple outlier detection procedure in linear regression. *Technometrics*, 33, 357-366.
31. **Paul, S.R.** (1990) Maximum likelihood estimation of intraclass correlation in the analysis of familial data: Estimating equation approach. *Biometrika*, 77 549-555.
32. Thiagarajah, K. and **Paul, S.R.** (1990). Testing for the equality of scale parameters of $k(2)$ exponential populations based on complete and Type II

- censored samples. *Communications in Statistics: Simulations and Computation*, B19, 891-902.
33. **Paul, S.R.** and Barnwal, R.K. (1990). Maximum likelihood estimation and a $C(\alpha)$ test for a common intraclass correlation. *The Statistician*, 39, 19-24.
 34. **Paul, S.R.** and Donner, A. (1989). A comparison of tests of homogeneity of odds ratios in K 2x2 tables. *Statistics in Medicine*, 8, 1455-1468.
 35. **Paul, S.R.** (1989). Test for the equality of several correlation coefficients. *Canadian Journal of Statistics*, 17, 217-227.
 36. Paul, S.R., Liang, K.Y. and Self, S.A. (1989). On testing departure from the binomial and multinomial assumptions. *Biometrics*, 45, 231-236.
 37. **Paul, S.R.** and Mantel, N. (1989). Model free analysis of litter-depletion data. *The Statistician*, 38, 121-125.
 38. **Paul, S.R.** and Ho, I. (1989). Estimation in the bivariate Poisson distribution and hypothesis testing concerning independence. *Communications in Statistics: Theory and Methods*, A18, 1123-1133.
 39. Barnwal, R.K. and **Paul, S.R.** (1988). Analysis of one-way layout of count data with negative binomial variation. *Biometrika*, 75, 215-222.
 40. **Paul, S.R.** and Mantel, N. (1988). Model dependent analysis of litter depletion data. *The Statistician*, 42, 363-370.
 41. **Paul, S.R.** (1988). Estimation of and testing significance for a common correlation. *Communications in Statistics: Theory and Methods*, A17, 35-53.
 42. **Paul, S.R.** and Barnwal, R.K. (1987). Detection of outliers in Poisson samples. *Communications in Statistics: Theory and Methods*, A17, 2391-2403.
 43. **Paul, S.R.** (1987). On the beta-correlated binomial (BCB) distribution - A three parameter generalization of the binomial distribution. *Communications in Statistics: Theory and Methods*, A16, 1473-1478.
 44. **Paul, S.R.** (1987). On the detection of unusual points in regression. *Biometrical Journal*, 29, 147-152.

45. **Paul, S.R.** and Fung, K.Y. (1986). A remark on algorithm AS148: The jackknife. *Journal of the Royal Statistical Society: Applied Statistics*, 35, 89-91.
46. **Paul, S.R.** (1986). A note on maximum likelihood ratio test of no outliers in regression models. *Biometrical Journal*, 28, 945-948.
47. **Paul, S.R.** and Fung, K.Y. (1986). Critical values for Dixon type test statistics for testing outliers in Weibull or extreme value distributions. *Communications in Statistics: Simulation and Computation*, B15, 277-283.
48. **Fung, K.Y.** and Paul, S.R. (1985). Comparison of outlier detection procedures in Weibull or extreme value distribution. *Communications in Statistics: Simulation and Computation*, B14, 895-917.
49. **Paul, S.R.** (1985). A three parameter generalization of the binomial distribution. *Communications in Statistics: Theory and Methods*, A14, 1497-1506.
50. **Paul, S.R.** (1985). Estimation of the parameters of a clumped binomial model via the EM algorithm. *The American Statistician*, 39, 136-139.
51. **Paul, S.R.** (1985). Critical values of maximum studentized residual statistic in multiple linear regression. *Biometrical Journal*, 26, 1-5.
52. **Paul, S.R.** (1983). Sequential detection of unusual points in multiple linear regression. *The Statistician*, 417-424.
53. **Paul, S.R.** (1983). A comment on 'Creation of a Statistical Problem' by Nathan Mantel. *The American Statistician*, 37, 336.
54. **Paul, S.R.** (1982). The analysis of proportions of affected foetuses in toxicological experiments. *Biometrics*, 38, 361-370.
55. **Paul, S.R.** (1981). Methods for calibration of examiners. *British Journal of Mathematical and Statistical Psychology*, 34, 821-824.
56. **Paul, S.R.** (1979). A clumped beta binomial model for the analysis of clustered attribute data. *Biometrics*, 35, 821-824.

57. **Paul, S.R.** (1979). Models and estimation procedures for the calibration of examiners. *British Journal of Mathematical and Statistical Psychology*, 32, 242-251.
58. Plackett, R.L. and **Paul, S.R.** (1978). Dirichlet models for square contingency tables. *Communications in Statistics: Theory and Methods*, A7, 939-952.
59. **Paul, S.R.** and Plackett, R.L. (1978). Inference sensitivity for Poisson mixtures. *Biometrika*, 65, 591-602.

Chapters in Books

1. **Paul, S. R.** Applications of the beta distribution. In *Handbook of the Beta Distribution* (2004). Edited by A. K. Gupta, and S. Nadarajah, S. Marcell Dekker.
2. **Paul, S.R.** (2002). Estimation of regression and Dispersion parameters in the analysis of proportions. *Advances on Methodological and Applied Aspects of Probability and Statistics*. Edited by N. Balakrishnsan, McMaster University, Hamilton, Canada.
3. **Paul, S. R.** (2000). GLS F-test and ML estimation in regression analysis with Two-stage Cluster Samples. *Perspective in Statistical Science*. Oxford University Press.
4. **Paul, S.R.** and Islam, A.S. (1996). $C(\alpha)$ Tests for homogeneity of proportions in toxicology in presence of beta-binomial over-dispersion. *Statistics in Toxicology*, Oxford University Press. 66-74.
5. Mantel, N. And **Paul, S.R.** (1987). Goodness of fit issues in toxicological experiments. *Biostatistics*, I.B. MacNeill and G.J. Umphrey (eds.), 169-176.

Books

1. *Regression Analysis with Applications* by G. B. Wetherill, P. Duncombe, P. Kenward, M. Kollerstrom, **S. R. Paul** and B. J. Bowden (1986). Chapman Hall: London, New York.
3. *Statistics for The Sciences* by Paul, S. R. (1998). University of Windsor.

Book Reviewed:

1. **Paul, S.R** (1994). Review of the book *Analysis of Quantal Response Data*, published by Chapman and Hall, London (1992), by B.J.T. Morgan, *Statistics in Medicine*, Vol. 13.

Papers submitted for publication or under preparation

1. **Jiang, X. and Paul, S. R. (2006). Analysis of covariance of zero-inflated paired count data using a zero-inflated bivariate Poisson regression model. Submitted to Biometrics**
2. **Paul, S. R. (2006) Some over-dispersed Life Time Models and Associated Tests. Under prepararion.**
3. **Paul, S. R. (2006). The GLS F-test and estimation of intraclass correlation parameters in regression analysis with two-stage cluster samples. Under preparation.**
4. **Paul, S. R. and Saha, K.K. (2005). The generalized linear model and extensions: A review and some biological and environmental applications. Submitted to Environmetrics.**
5. **Paul, S.R. and Jiang, X. (2006). Testing equality of means and variances of several Weibull populations. Under Preparation.**
6. **Paul, S.R. and Banerjee, T. (2006). Model selection in Multi-clump finite mixture models. Under Preparation.**

Abstracts and/or Papers Read in International Conferences:

1. **Paul S. R. and Saha, K. (2005). The Generalized Linear Model and Extensions: A review and Some Biological and Environmental applications. The International Conference on Quantitative Methods for the Environmental Sciences and General Meeting of The International Environmetrics Society**
2. **Saha, K., and Paul S. R. (2004). Bias Corrected maximum likelihood estimator of the negative binomial dispersion parameter. Joint Statistical meetings (JSM) of the American Statistical association, International Biometric Society and Statistical Society of Canada.**

3. **Deng, D. and Paul, S. R. (2004). Generalized linear model, zero- inflation and over- dispersion. Joint Statistical meetings (JSM) of the American Statistical association, International Biometric Society and Statistical Society of Canada.**
4. **Paul, S. R., Xing, Jiang (2004). Tests of treatment effect in pre-drug and post-drug count data. Joint Statistical meetings (JSM) of the American Statistical association, International Biometric Society and Statistical Society of Canada.**
5. **Paul, S. R. (2003). The GLM, quasi-likelihood, extended quasi-likelihood, Hierarchical GLM and the double extended quasi-likelihood. Presented to the 4th International Triennial Calcutta Symposium on the Probability and Statistics, Dec, 2003.**
6. **Paul, S. R. and Jiang, X. (2003). Simultaneously testing the equality of means and the equality of variances for several populations. Presented at the Hawaii International Conference in June**
7. **Paul, S. R. and Deng, D. (2002). Goodness of fit of generalized linear models to sparse data. Presented at the Taipei Statistical Conference in July.**
8. **Paul, S. R. and Deng, D. (2002). Goodness of fit of generalized linear models to sparse data. IISA Biennial meetings at University of Northern Illinois in June.**
9. **Paul, S. R. and Balasoorya, U. (2002) Some over-dispersed Life Time models and Associated Tests. Presented at the Annual meetings of the Statistical Society of Canada.**
10. **Paul, S. R. and Deng, D (2001). Generalized linear model, zero-inflation and over- dispersion. Presented at the International Conference on Statistics and Related Matters in Calcutta, India in December.**
11. **Deng, D. and Paul, S. R (2000). Score tests for zero-inflation in generalized linear models. Presented to the conference on Statistics in the 21st century, held in University of Maine, Maine, USA in August, 2000.**
12. **Paul, S.R. (1998). Analysis of two-way layout of count data involving multiple counts in each cell. Joint Statistical Meetings ASA-ENAR, Dallas, Texas.**
13. **Paul, S.R. (1998). Analysis of two-way layout of count data involving multiple counts in ach cell. International Indian Statistical Association Conference, held in Oct., 1998, in Hamilton, Ont., Canada.**
14. **Paul, S.R. (1998). Quadratic estimating equations for the estimation of regression and dispersion parameters in the analysis of proportions. 1998 Annual 10. Meetings of the Statistical Society of Canada.**

15. Paul, S.R. (1998). The GLS F-test and estimation of the intraclass correlation parameters in Regression Analysis With Cluster Samples. Presented to the 3rd International Triennial Calcutta Symposium on the Probability and Statistics, Dec, 1997.
16. Paul, S.R. (1996). Joint estimation of the mean and dispersion parameters in the analysis of proportions: A comparison of efficiency and bias. The XVIIIth International Biometric Conference, Amsterdam, The Netherlands.
17. Paul, S.R. (1996). Analysis of two-way layout of count data involving multiple count in each cell. Joint Statistical Meetings ASA-ENAD, Chicago, USA.
18. Paul, S.R. (1995). Generalized least squares F test and relevant ML estimation in regression analysis with cluster samples. Triennial Symposium on Probability and Statistics, Calcutta, India, January, 1995.
19. Paul, S.R. (1994). Analysis of Proportions Using Parametric and Semi-Parametric Models. Joint Statistical Meeting of the American Statistical Association and the Biometric Society in Toronto, August, 1994.
20. Paul, S.R. A.S. Islam (1993). Analysis of proportions based on parametric and semi-parametric models, 1993 Joint Statistical meeting ASA-ENAR-WNAR, San Francisco, California, August, 1993.
21. Paul, S.R. (1993). On generalized least squares F-test in regression analysis with two-stage cluster samples, 49th Session of the International Statistical Institute, Florence, Italy, 1993.
22. Paul, S.R. A.S. Islam (1992). C() test for testing homogeneity of proportions in toxicology, International Biometric Society, December, 1992.
23. K. Thiagarajah, Paul, S.R. (1992). Interval estimation procedures for the parameter of the extreme value models, Canadian Statistical Society, Annual Meeting, Edmonton, Canada.
24. Paul, S.R. K. Thiagarajah (1991). Homogeneity tests for common Weibull distribution scale in presence of unknown common shape parameters, Third Canadian Conference in Applied Statistics - Statistics '91, Canada.
25. Paul, S.R. (1990). Maximum likelihood estimation of intraclass correlation in the analysis of familial data: estimating equation approach, XVth International Biometrics Conference, July, 1990.
26. Paul, S.R. K. Thiagarajah (1990). Analysis of one-way layout of data from Weibull distribution with common shape parameter, 1990 Joint Statistical Meetings ASA-ENAR-WNAR, Anaheim, California, August, 1990.

27. Paul, S.R. (1989). Testing equality of several correlation coefficients, 1989 International Statistical Institute Conference, September, 1989.
- 28 Paul, S.R. K.Y. Liang, S.A. Self (1989). On testing departure from the binomial and multinomial assumptions, Annual meeting of the Canadian Statistical Association, June, 1989.
- 29 Paul, S.R. A. Donner (1988). A comparison of testing homogeneity of odds ratios in $K \times 2$ contingency tables, International Biometric Conference, July, 1988.
30. Paul, S.R. K. Thiagarajah (1988). Analysis of one-way layout of data from Weibull (extreme value) distribution with common shape (scale) parameter. Joint meetings of the American Statistical Association, Biometric Society and Institute of Mathematical Statistics, August, 1988.
31. Paul, S.R. (1986). Estimation of and testing significance of a common correlation. International Biometric Conference, Seattle, July, 1986.
32. Paul, S.R. R.K. Barnwal (1986). Detection of outliers in Poisson samples. Joint Statistical Meetings, Chicago, August, 1986.
33. Paul, S.R. R.K. Barnwal (1986). Testing equality of two negative binomial means in presence of a common dispersion parameter. Joint Statistical Meetings, Chicago, August, 1986.

IMPACT OF RESEARCH

I have published extensively and in premier journals in Statistics, such as, Journal of the American Statistical Association, Journal of the Royal Statistical Society, Biometrika, Biometrics, Technometrics, The Canadian Journal of Statistics and Statistics in Medicine (26 publications in these journal). Over the years my publications had huge impact in the development of methodologies for data analysis in Toxicology and Biostatistical practices and Epidemiology.

Teaching and dissemination of statistical knowledge

I developed several graduate courses in Windsor that include multivariate analysis, categorical data analysis, generalized linear models, survival analysis, survey sampling. They all have been well received by the students. I have supervised six Ph.D students from 1988 - 2004. We had a small Ph. D. program with five to six statistics faculty. In the same period the department produced 11 Ph.D.'s in Statistics. Currently I am supervising two Ph. D. students and four M.Sc students. I have given numerous seminars on my research at various statistics and mathematics and statistics departments. In addition I have contributed more than 33 papers to the joint statistical

meetings of the American Statistical Association and Institute of Mathematical Statistics, The International Biometrics Society meetings, Statistical Society of Canada annual meetings and various other professional meetings. In addition I regularly give seminars at different universities around the globe.

I have co-authored a book “Regression analysis with applications” in which my main contribution was detection of outliers and development of diagnostic measures in regression analysis. I also wrote a book for distance students taking “statistics for the sciences” at the University of Windsor. This book has been very well received by the distance learning students. The regular students in the sciences at the University of Windsor who take the first course in statistics also use this book as a reference.

I have been teaching for a long time. I love teaching and it is my passion. I taught many undergraduate (including large service courses) and graduate courses. I try to make a one to one relationship with my students breaking the barrier that may exist between a professor and a student. I have open door policy to all my students, including my undergraduate service course students. As a result my students feel free to consult me during any time of the day.

I also consider research supervision as part of my teaching. I believe teaching and research should go hand in hand. That is what I try to achieve. To my research students I try to be a mentor and a friend, constantly working with them and giving them advice.

Consulting

While I was a Lecturer at the University of Kent, England, I provided consultancy to Pharmaceutical companies (The Boots Company Ltd., Nottingham, U.K. and Shell Toxicology Research Laboratory, Sittingbourne Research Centre, Sittingbourne, Kent, U.K). At the University of Windsor, I provided consultancy service to faculty and graduate students in Psychology, Biological sciences and Engineering. I am collaborating with Professor Paul Henshaw, Department of Environmental Engineering, to NSERC on automotive paint finish. I also provided consultancy to the local utility board and to some local physicians.