

## Curriculum Vitae – Spring 2010

I. **Candidate's Name:** Mervyn G. Marasinghe  
**Department of Principal Appointment:** Statistics

II. **Proposed Rank and Tenure Status:**

III. **Degrees Held:**

<i>Degree</i>	<i>Institution</i>	<i>Date</i>	<i>Field</i>
Ph.D.	Kansas State University	August 1980	Statistics
	Kansas State University	March 1977	Statistics
Dip.Stat.	University of Sri Lanka	April 1974	Statistics
B.Sc.	University of Sri Lanka	March 1971	Natural Sciences

IV. **Professional Experience:**

<i>A. Positions held elsewhere</i>	<i>Dates</i>
Graduate Research Assistant, Kansas State University	9/75-6/79
Analyst/Programmer, State Engineering Corporation, Sri Lanka	7/70-9/75

<i>B. Iowa State University appointments</i>	<i>Dates</i>
Associate Professor	7/86- to date
Assistant Professor	7/80-6/86

V. **Candidate Statement(s)**

### Position Responsibility Percentages

a. Teaching/Advising 55%

Teach four or five courses per year. Serve as major professor for MS and PhD candidates majoring in Statistics. Serve on POS committees for graduate students both within and outside of the Department. Publish textbooks and guides to the use of statistical software.

b. Research/Creative 25%

Publish research articles in high quality statistical and scientific journals, give invited presentations at universities or international research conferences, publish scholarly monographs and books. Seek external funding to support research activities that will lead to publication and support graduate students. Engage in collaborative research.

c. Prof. Practice/Extension 15%

Serve as expert referee for leading journals in statistics, computational statistics and graphics. Participate in national and international scientific societies and research organizations. Provide statistical expertise to university researchers with respect to statistical computing, study design, statistical modeling and data analysis.

d. Service 5%

Serve on several departmental committees and on college or university committees as opportunities arise.

## **POSITION RESPONSIBILITY STATEMENT**

**This statement is work in progress; I have decided to write what I have done in the past as an indication of how position responsibilities of this position has evolved over time.**

From 1980 until 1993, I was primarily responsible for teaching the computing component of the undergraduate program in Statistics. In that regard I have developed and taught the two courses Stat480 and Stat481 (as numbered at the time) beginning entirely from scratch. In addition, I have taught a section of Stat402 and Stat579 each of those years to satisfy my teaching requirement of three courses a year.

I was an active member of the Computation committee of the department from 1980 and became its Chair in 1985 and has served as Chair or Co-chair ever since. I have participated as PI or Co-PI in several external-funding proposals that this committee submitted. I have been actively engaged in and feel that I am partially instrumental in the progress that the department has made in upgrading its computing resources during this period. This includes the establishment of the laboratories in Snedecor Hall in Rooms 322, 321 and the Minitab (now JMP) Consulting Room in Room 307. I have prepared or supervised the writing of proposals annually to be submitted to the LASCAC to obtain funds for the establishment of these labs as well as for routine maintenance costs of these labs.

In 1992 during a 6-month FIL, I developed a graduate level course in Statistical Computing applications and offered it experimentally (Stat581X) in the summer of 1993. Subsequently this was made a permanent course (Stat581) and was taught in SS95 and SS97. Following the restructuring of the Statistics graduate curriculum in 1997, this course was renumbered as Stat580 and offered every spring beginning 1998. In addition to replacing the Stat580 course previously taught by Professor Kennedy it was also stipulated that S-PLUS should be used as the primary computer language of instruction rather than Fortran/C languages required for Stat581 (and the old Stat580). I have taught this course four times beginning the Spring semester of 1999. In spite of the severe competition for students due to the choices they have for electives in the Spring semester, I have been able to recruit enough students to keep this course from being cancelled during this period.

At the outset, my research program was related to the topic in linear models considered in my dissertation as well other areas such as outliers in regression. However, since my position required that I conduct research in the area of Statistical Computing, in the late eighties I was encouraged to adopt Artificial Intelligence as a possible research area. Several years of effort expended in this area, learning several new languages including PROLOG, OPS5, SCHEME, and XLISPSTAT. There were several projects on the topic the best work being done in collaboration with Phil Iversen including an intelligent program for model determination for data from balanced experimental designs. However, his dissertation work centered around using graphics and XLISPSTAT for design

optimization. Thus outcome of the whole exercise was that I became an expert on XLISPSTAT and honed my skills working with Luke Tierney and Sanford Weisberg during my FIL at the University of Minnesota. After my return I trained several graduate students including Phil Iversen and Tae-Sung Shin in using XLISPSTAT.

The Vincent laboratory in 322 Snedecor resulted from a proposal (with myself as a co-PI) submitted the NSF/ILI program. The computer teaching modules developed using XLISPSTAT under this project, have received high praise from users worldwide and was described in an article (Marasinghe et al. ,1996) published in a refereed journal as a part of the dissemination plan. Working with my former graduate students, I have extended the initial work to create additional modules that cover important statistical concepts underlying regression analysis and the design experiments (Marasinghe, Shin, and Duckworth (1998), Iversen and Marasinghe, 2001).

Beginning in 2000, my teaching load was increased to four courses a year due to shortfall in research productivity. Since then I have taught four courses a year. I continue to do research in the area of Statistical Education as well as developing methods for accelerating numerical algorithms for maximum likelihood estimation, the topic of Tae-sung Shin's dissertation. During the Spring of 2002, I began attending VIGRE Bioinformatics group meetings with a view of expanding my computing knowledge as well as contributing to the research area. I feel confident that I will be in a position to collaborate in the field in the near future. I continue to expand and develop Statistics 580 and want to incorporate new computational techniques as much as possible to make it more attractive to graduate students.

In the Fall of 2003, I applied for and obtained a Study in Second Discipline award from the Provost's office. This will enable me to expand on my study in Bioinformatics and hope to begin collaborating with faculty in other departments interested in Bioinformatics.

In the Fall of 2003, I signed a contract with Springer to write a book on Analysis of Data using SAS with Bill Kennedy as coauthor. The progress on this book has been extremely slow due to my teaching load. An application for an FIL in 2005 partly to complete this work was denied.

The final manuscript of the book entitled *SAS for Data Analysis: Intermediate Statistical Methods* was submitted in the Spring of 2008. It appeared in print in August 2008.

## VI. Teaching:

### 1. Courses taught in last five years:

Semester/year	Course Number & Title	Enrollment	Instructor/Course
Fall 2009	Stat 479 Comp. Mthd.Data Anal.	16	3.63/3.63
Fall 2009	Stat401C Stat. Mthds. Res. Wrkrs	24	3.28/3.38
Spring 2009	Stat 580 Statistical Computing I	06	4.00/4.17
Spring 2009	Stat401B Stat. Mthds. Res. Wrkrs.	23	3.61/3.48
Fall 2008	Stat 479 Comp. Mthd.Data Anal.	24	4.06/4.06
Fall 2008	Stat401C Stat. Mthds. Res. Wrkrs	26	3.48/3.48
Spring 2008	Stat 580 Statistical Computing I	05	3.80/4.20
Spring 2008	Stat401B Stat. Mthds. Res. Wrkrs.	24	3.48/3.71
Fall 2007	Stat 479 Comp. Mthd.Data Anal.	25	3.40/3.87
Fall 2007	Stat401C Stat. Mthds. Res. Wrkrs	28	3.79/3.79
Spring 2007	Stat 580 Statistical Computing I	08	4.00/4.14
Fall 2006	Stat 479 Comp. Mthd.Data Anal.	21	3.43/3.43
Fall 2006	Stat401C Stat. Mthds. Res. Wrkrs.	21	3.93/4.27
Spring 2006	Stat401B Stat. Mthds. Res. Wrkrs.	35	3.65/3.43
Fall 2005	Stat 479 Comp. Mthd.Data Anal.	23	3.25/3.56
Fall 2005	Stat 579 Stat. Cmpr. Hdwr. Sftw.	21	3.88/4.00
Spring 2005	Stat401B Stat. Mthds. Res. Wrkrs.	48	3.28/3.48
Spring 2005	Stat402C Stat. Design& Expt.	18	2.18./2.12*
Fall 2004	Stat 479 Comp. Mthd.DataAnal.	22	4.00/4.00
Fall 2004	Stat 579 Stat. Cmpr. Hdwr. Sftw.	33	-N.A.-
Spring 2004	Stat 580 Comp. Mthds. Stat.	09	4.29/4.29
Spring 2004	Stat401B Stat. Mthds. Res. Wrkrs.	35	3.32/3.36

\* See attached letter from a student and faculty evaluation by Dr. Douglas Bonett regarding my teaching of this course

### 2. Course and curriculum development activity:

The courses Statistics 580 and 479 are in continuous development because of the advances being made in computational technology and software upgrades. Course content and software programs are modified every semester to keep these courses current and be consistent with the current versions of languages and software packages being used. For example, Stat 580 was completely revamped in the Spring of 2007 to incorporate programming in the C language and Stat 479

was revised in the Fall 2008 to accommodate the adoption of the new text book *SAS for Data Analysis*.

3. **Advising.**

3.1 **Undergraduate Advising:**

Began as undergraduate advisor Spring 2010.  
6 statistics major advisees currently

3.2 **M.S. Program of Study Committees:**

a. **In progress:**

**Chair/major professor**

1. Dong Chen

**Member of committee**

1. Chun-Fu Chen, (C.C.E)
2. Fanqi Meng, (IMSE)
3. Wen Lin, (IMSE)
4. Yanjun Shi (IMSE)
5. Blake Rubino (CCEE)

b. **Completed:**

**Chair/major professor**

1. Sze Wai Cheung, 1983
2. John Raudsep, 1983
3. Anthony Lui, 1984
4. James Symanowski , 1986
5. Jeffrey Christman, 1986
6. Ching-Chang Hwang , 1985
7. Franklin Winters, 1986
8. Chii-Jyh Shyu, 1990
9. Phil Iversen, 1990
10. Eric Novak, 1992
11. Paul Wenz, 1992
12. Matt Gerdis, 1994
13. Tae-sung Shin, 1994
14. Zhongshan Chen, 1998
15. Yun Liu, 1999
16. Yimin Liang, 2000
17. Julio Alonso Cifuentes, 2002
18. Yao Guo, 2003
19. Weihong Zhuang, 2005

### 3.2 M.S. Program of Study Committees (continued from previous page):

#### b. Completed

##### Member of committee

1. W. N. Wickremasinghe – (Statistics), 1983
2. In-Hye Ha – (Statistics), 1985
3. Mark Schoenbaum – (Vet. Microbiol.), 1986
4. John Thompson – (Statistics), 1987
5. Kim Lisbona – (I.E.), 1988
6. Saqub S. Karim – (E.E.), 1989
7. Chia-Lin Li – (Statistics), 1990
8. David Steenhard – (Statistics), 1989
9. Risana Chowdery – (Statistics), 1991
10. Rochelle Milbrath – (Statistics), 1991
11. Christopher Miller – (I.E.), 1992
12. Mark Kreisberg – (Statistics), 1992
13. Todd Borchert – (Statistics), 1992
14. Chun-fu Chen – (Statistics), 1992
15. Leroy Rushing – (Statistics), 1992
16. Yi-te Lin – (Statistics), 1992
17. Sang-heon Oh – (Statistics), 1993
18. Huaichin Chen – (Statistics), 1996
19. Hwei-Chun Chou – (Statistics), 1999
20. Mohd Fahzy Abdul Rahman – (Economics), 2001
21. Syuin-Chet Tee – (C.C.E. -CEM), 2001
22. Arif Ishaq Abou-Seido – (E. E.), 2001
23. Dan Pulido – (Agron.), 2001
24. Jingxi Li – (C.C.E. -CEM), 2002
25. Aldona Jelinek – (C.C.E.-CEM), 2002
26. Jason Sinnwell – (Statistics), 2002
27. Suarez, Manuel –(Statistics), 2002
28. Chen, Dong –(C.C.E.-CEM),2003
29. Wang, Yaqin – (Statistics), 2003
30. DeCook, Rhonda- (Statistics), 2003
31. Mauricio Arbelaez- (C.C.E) 2003
32. Jacob Thorius (C.C.E.-C.E) 2003
33. Mary Rukhaza- (C..C.E- C.E) 2003
34. Wayne Flickinger – (AST) 2003
35. Kim Seong Hoon (C.C.E) 2004
36. Oleg Stakhanov – (Pol. S, , 2004) Minor in Stat
37. Sachin Sulakhe -(IMSE) 2004
38. Kar-Yeng Liew- (IMSE) 2004
39. Fei Jie (Statistics) 2004
40. Lifeng You (Statistics) 2004
41. Gardner, Stuart (Statistics) 2005

42. Vo, Dao (M.E.) 2007
43. Matthew Mason, (C.C.E) 2008
44. Shan Jin (IMSE) 2009
45. Zhaoyang Duan (IMSE) 2009
46. Ritwik Banerjee (ECONA) 2009
47. Brian Weaver, (Statistics) 2009

3.3. **Ph.D. Program of Study Committees:**

a. **In progress:**

**Chair/major professor**

- 1.
- 2.

**Member of committee**

1. Ying Shi, (Statistics)
2. Shi Peng (IMSE)
3. Venkat Krishnan (EECE) Minor
4. Karla Valenzuela (IMSE)

b. **Completed:**

**Chair/major professor**

1. Byung C. Kim, 1984
2. Charles Farmer, 1986
3. Phil Iversen, 1993
4. Bassirou Chitou, 1997
5. Tae-sung Shin, 1998

**Member of committee**

1. Yu-Han Hou – (An. Science), 1985
2. Paul M. Moldenhauer – (M.E.), 1986
3. Antonio Cubas – (An. Science), 1988
4. Hsin-Hui Lin – (I.E.), 1987
5. Weizing Zhang – (I.E.), 1988
6. In-Hye Ha – (Statistics), 1989
7. Fred Hulting – (Statistics), 1989
8. James Symanowski – (Statistics), 1989
9. Mark Schoenbaum – (Vet. Micro.), 1989
10. Kui-Jang Wang – (Statistics), 1992
11. Wang Teng-Fue – (I.E.), 1993
12. Sang-Jin Park – (I.Ed.T.), 1993
13. Ouhong Wang – (Statistics), 1994
14. Jave Pasqual – (Statistics), 1997

15. Weixing Zhang – (M.S.E) Minor Rep(Statistics), 1998
16. Yicun Zheng – (I.E.) Minor Rep (Statistics), 1998
17. Sunhee Kwon – (Statistics), 1998
18. Kui Meng – (Econ) Minor Rep(Statistics), 1998
19. Youjie Dai – (E.E.) Minor Rep (Statistics), 1999
20. Kevin Wright – (Statistics), 1999
21. Jianlin Cheng – (Statistics), 1999
22. Osman Kubilay Gursel – (Econ), 2002
23. Julio Alonso Cifuentes – (Econ), 2002
24. Zhu, Meijun – (An S), 2004 Minor in Stat
25. Dong Wang -(Statistics), 2006
26. Su Chao – (CE & EE), 2006
27. Sunghwan Kim – (C.C.E), 2006
28. Liang, Ye – ( Comp. Sci.), 2006
29. Dong Chen – (C.C.E. C.E.M), 2006
30. Xiaohong Zhang – (Statistics), 2006
31. Chao Su – ( EECE.) 2007

4. **Honors and awards for the candidate’s teaching/scholarship of teaching**

**B. Research Scholarship or Creative Activity:**

1. **Publications (listed in reverse chronological order)**

a. **Books and monographs**

1. “SAS for Data Analysis” (book published by Springer with William J.Kennedy as co-author, appeared August 2008)

b. **Chapters in books; chapter-length pieces of creative work in anthologies and collections**                      None

c. **Papers in refereed journals; individual short creative pieces in refereed journals**

1. Dao M. Vo, Judy M. Vance, and Mervyn Marasinghe (2008) “Assessment of Haptics-based Interaction for Assembly Tasks in Virtual Reality,” submitted to *Presence*.
2. Philip Iversen and Mervyn Marasinghe (2005) “Visualizing Experimental designs for Balanced ANOVA Models Using Lisp-stat” *Journal of Statistical Software, January 2005, Vol. 13, Issue 3* <http://www.jstatsoft.org/v13/i03/v13i03.pdf>
3. Mervyn G. Marasinghe, Bill Duckworth and Tae-sung Shin.(2004) “Tools for Teaching Regression Concepts using Dynamic Graphics.” *The Journal of Statistical Education, Vo.l 12, Issue 2*  
<http://www.amstat.org/publications/jse/v12n2/marasinghe.html>

4. Mervyn G. Marasinghe and Philip Iversen (2001). "Teaching Experimental Design and Analysis Concepts using Dynamic Graphics." *The American Statistician* 55, 341–351.
5. Mervyn G. Marsinghe, William Meeker, Dianne Cook, and Tae-sung Shin (1996). "Using Graphics and Simulation to Teach Statistical Concepts." *The American Statistician* 50, 342–351.
6. Mervyn G. Marasinghe and Robert J. Boik (1993). "A Three-degree of Freedom Test of Additivity in Three-Way Classifications." *Computational Statistics and Data Analysis* 16, 47–61.
7. Robert J. Boik and Mervyn G. Marasinghe (1989). "Analysis of Nonadditive Multi-way Classifications." *Journal of the American Statistical Association* 84, 1059–1064.
8. Mervyn G. Marasinghe (1986). "A Stable Single Pass Algorithm for Computing Tukey's and Mandel's Interaction Sums of Squares." *Communications in Statistics -- Simulation and Computation* 15(3), 649–654.
9. Mervyn G. Marasinghe (1985). "A Multistage Procedure for Detecting Several Outliers in Linear Regression." *Technometrics* 27, 395–399.
10. Mervyn G. Marasinghe (1985). "Asymptotic Tests and Monte Carlo Studies Associated with the Multiplicative Interaction Model." *Communications in Statistics (Theory and Methods)* 14, 2219–2231. 12.
11. Mervyn G. Marasinghe K. E. Kemp (1983). "Computational Efficiency of Anova programs based on a reparameterization." *Journal of Statistical Computation and Simulation* 78, 482–490.
12. Mervyn G. Marasinghe and D. E. Johnson (1982). "A Test of Incomplete Additivity in the Multiplicative Interaction Model." *Journal of the American Statistical Association* 77, 869–877.
13. Mervyn G. Marasinghe and W. J. Kennedy (1982). "Direct Methods for Generating Extreme Characteristic Roots of Certain Random Matrices." *Communications in Statistics -- Simulation and Computation* 11, 527–542.
14. Mervyn G. Marasinghe and D. E. Johnson (1982). "Estimation of  $\sigma^2$  in the Multiplicative Interaction Model." *Communications in Statistics (Part A)* 11, 315–324.

15. Mervyn G. Marasinghe and D. E. Johnson (1981). "Testing subhypotheses in the Multiplicative Interaction Model." *Technometrics* 23, 385–292.

d. **Refereed conference presentations**

1. "Assessment of Haptics-Based Interaction for Assembly Tasks in Virtual Reality" Dao Vo, Judy Vance, Mervyn Marasinghe *WorldHaptics 2009, Salt Lake City, UT, USA*.

e. **Book reviews**

1. "A *First Course in Statistical Methods*" by R. Lyman Ott and Micheal T. Longnecker in *The American Statistician* 61, 1, 95–96 (2007).
2. "*Numerical Methods of Statistics*" by John Monahan for the *Journal of the American Statistical Association* ,98,497-498 (2003)
3. "*Evaluation and Control of Measurements*" by John Mandel in *Journal of the American Statistical Association* 89, 720 (1994).
4. "*SAS System for Linear Models*" by Freund, Littell and Spector in *Technometrics* 30, 116–117 (1988).
5. "MSUSTAT –*Statistical Package for Microcomputers.*" In *The American Statistica* 39, 72–74 (1985).

f. **Non-refereed publications**

1. "A Generalized Conjugate Gradient Accelerator for the EM Algorithm." *2005 Proceedings of the Statistical Computing Section, American Statistical Association* (with Julio Alonso).
2. "Computer Modules for Teaching Statistical Concepts." *2002 Proceedings of the International Conference on Teaching of Statistics 6 (on CD)*.
3. "Efficient Maximum Likelihood Algorithms." *1998 Proceedings of the 30<sup>th</sup> Symposium on the Interface: Computing Science and Statistics* (with Tae-Sung Shin).

4. “An Interactive Window-based Environment for Experimental Design.” *1992 Proceedings of COMPSTAT 92* (with N.Nys, Paul L. Darius).
5. “Visualizing Experimental Design with LISP-STAT.” *1992 Proceedings of the 24<sup>th</sup> Symposium on the Interface: Computing Science and Statistics* (with Philip W. Iversen).
6. “A Structure-based Approach for Model Determination in Experimental Designs.” *1990 Proceedings of the Statistical Computing Section, American Statistical Association* ( with Paul L. Darius).
7. “A New Conjugate Gradient Algorithm for Analysis of Variance Computations.” *1984 Proceedings of the Statistical Computing Section, American Statistical Association* (with Byung C. Kim, William J. Kennedy).

**g. Work under preparation**

1. “A generalized conjugate gradient accelerator for the EM algorithm” under preparation (paper jointly with Julio Alonso)
2. “Development of Efficient Maximum Likelihood Algorithms” under preparation (paper with Tae-Sung Shin)
3. “Near –infrared (NIR) Spectroscopy Coupled with Molecular Marker Data as a Tool for Gene Discovery.” ( paper jointly with Paul Scott, USDA and Agronomy).

**2. Grants and fellowships:**

**a. External funding**

<i>Funding Source</i>	<i>Title</i>	<i>Amount</i>	<i>Date</i>	<i>PI/Co-PI</i>	<i>% Effort</i>	<i>Funded?</i>
NSF/ILI	Developing Modern Computing and Graphics-based Methods for Teaching Important Concepts in Undergraduate Statistics Courses	\$55,000	07/92-12/94	Co-PI	30%	Yes

**b. Internal funding**

<i>Funding Source</i>	<i>Title</i>	<i>Amou</i>	<i>Date</i>	<i>PI/Co-</i>	<i>% Effort</i>	<i>Funded?</i>
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		<i>nt</i>		<i>PI</i>		
ISU	FDPA		7/06-12/06		100%	No
ISU	Carver Trust Grant	\$23,541	2/2004	Co-PI		No
ISU	SSD	\$7400	8/03-12/03		100%	Yes
ISU	Foreign Travel Grant to Present Paper at ICOTS 6	\$2075	7/2002		100%	Yes
ISU/Plant Sci. Inst.	Plant Sciences Institute Grant Funding FY2003		5/2002	Co-PI	15%	No
ISU	Faculty Improvement Leave		6/92-12/92		100%	Yes
ISU	Summer Research Grant		6/86-8/86			Yes

**3. Papers read at regional, national, or international meetings/conferences :**

(listed in **reverse chronological order**); candidate is assumed to be presenter unless otherwise indicated

**a. Invited papers/presentations or readings of creative work**

“Computer Modules for Teaching Statistical Concepts,”  
*Computer demonstration presented at the 2002 International Conference on Teaching of Statistics 6*, at Cape Town South Africa, July 2002

“Computer Modules for Teaching Statistical Concepts,”  
*Presented at the 2002 International Conference on Stats, Probability and Related Areas* at Northern Illinois University, DeKalb, IL; June 2002

**b. Invited lectures**

None

**c. Invited seminars and colloquium talks**

None

**d. Contributed Papers Presented and Sessions Chaired**

1. “Near –infrared (NIR) Spectroscopy Coupled with Molecular Marker Data as a Tool for Gene Discovery.”  
Mervyn G. Marasinghe and Paul Scott. *Poster paper*

*presented at the Joint Statistical Meetings of the American Statistical Association, Seattle, WA, 2006.*

2. "A Generalized Conjugate Gradient Accelerator for the EM Algorithm." Mervyn G Marasinghe and Julio Alonso *Poster paper presented at the Joint Statistical Meetings of the American Statistical Association, Minneapolis, MN, 2005.*
2. "Models and Graphical Tools for the Analysis of Nonreplicated Data," Mervyn G. Marsinghe and Heike Hofmann. *Paper presented at the Joint Bioinformatics Workshop, Iowa State University, Ames Iowa, 2002.*
3. "Efficient Maximum Likelihood Algorithms," Mervyn G. Marasinghe and Tae-sung Shin, *Paper presented at the 30<sup>th</sup> Symposium on the Interface: Computing Science and Statistics, Minneapolis, 1998.*
4. "Efficient Algorithms for Maximum Likelihood Estimation of Variance Components," Mervyn G. Marasinghe and Tae-sung Shin, *Poster paper presented at the Joint Statistical Meetings of the American Statistical Association, Dallas, 1998.*
5. "A Unified Approach to Efficient EM-type Algorithms: Generalized Conditional Maximization," Mervyn G. Marasinghe and Tae-sung Shin, *Paper presented at the Joint Statistical Meetings of the American Statistical Association, Dallas, 1998*
6. "Teaching Experimental Design and Analysis Concepts using Dynamic Graphics," Mervyn G. Marasinghe, *Poster paper presented at the Joint Statistical Meetings of the American Statistical Association, Anaheim, 1997*
7. "Tools for Teaching Regression Concepts using Dynamic Graphics," Mervyn G. Marasinghe, *Poster paper presented at the Joint Statistical Meetings of the American Statistical Association, Chicago, 1996*
8. "Using Graphics and Simulation to Teach Statistical Concepts," Mervyn G. Marasinghe, William Meeker, Dianne Cook, and Tae-sung Shin *presented at the Joint Statistical Meetings of the American Statistical Association, Chicago, 1996* (presenter: William Q. Meeker Jr.)

9. Chaired the Journal of Computational and Graphical Statistics invited papers session at *the 27<sup>th</sup> Symposium on the Interface: Computing Science and Statistics, Pittsburgh, 1995*
10. “Using Graphics and Simulation to Teach Statistical Concepts,” Mervyn G. Marasinghe, William Meeker, Dianne Cook, and Tae-sung Shin *Poster paper presented at the Joint Statistical Meetings of the American Statistical Association, Toronto, 1994*
11. Chaired the “Inference Based on the Bootstrap” invited papers session at *the Joint Statistical Meetings of the American Statistical Association, Toronto, 1994*
12. “Dynamic Graphics for Experimental Design,” Mervyn G. Marasinghe and Philip Iversen, *Paper presented at the Joint Statistical Meetings of the American Statistical Association, San Francisco, 1993*
13. “Visualizing Experimental Design with LISP-STAT,” Philip Iversen and Mervyn Marasinghe, *Paper presented at the 24<sup>th</sup> Symposium on the Interface: Computing Science and Statistics, Houston, 1992* (presenter: Philip Iversen)
14. “A Structure-based Approach for Model Determination in Experimental Designs,” Mervyn Marasinghe *Paper presented at the Joint Statistical Meetings of the American Statistical Association, 1990*
15. “A New Conjugate Gradient Algorithm for Analysis of Variance Computations,” Mervyn Marasinghe and Byung C. Kim, *Paper presented at Joint Statistical Meetings of the American Statistical Association, 1984*

**5. Refereeing, editing, and reviewing for publications and professional organizations.**

**Refereed** manuscripts for the *Journal of the American Statistical Association*, *Technometrics*, *Communications of Statistics and the Journal of Computational and Graphical Statistic*.

**Associate Editor** for *Journal of Computational and Graphical Statistics* **August 1994 until May 2002**

**6. Honors and awards for candidate's research scholarship**

**C. Extension or Professional Practice**

**1. Consulting projects and technical reports** (please list)

Consulted with faculty, students and other researchers on campus on SAS, S-plus, R, Fortran, C, Linux, LaTeX and other software and handle general computing problems and questions from faculty, graduate students on a regular basis as a part of my duties in the Statistical Computing Section as well as a general expert on these packages and languages.

**2. Workshops** (please list)

**3. Honors and awards for candidate's work in extension or professional practice** (please list)

**D. Service**

**1. Please list institutional service, including committee work at department, college, and university levels**

- Served as a member of the **LAS College Computing Advisory Committee** 2008/2009.
- Currently serving as Chair of **LAS College Computing Advisory Committee**. (3-year term)
- Member of the **University Computing Advisory Committee** and member of subcommittee to review CAC proposals.
- *Organized **Invited Session** on Statistical Computing at the Statistics Department's 75<sup>th</sup> Anniversary Meeting 6/2009*

**Served on the following departmental committees:**

- Supervisory Committee for Overseeing Statistical Computing Support Staff, 2005-2006 (Co-chair), Fall 2007 (Chair), Spring 2008 (Chair)

- Statistics Computation Advisory Committee, 1981–1985, 85/86 (Chair), 86/87 (Chair), 87/88 (Chair), 1988–1991, 91/92 (Chair), 92/93 (Chair), 93/94, 94/95 (Co-chair) 1995–1998, 1998–2008 (Co-chair), 2009/2010
  - Undergraduate Committee 1980 to 1992, 1993–2000, 2009-2010
  - Seminar Committee, 81/82, 97/98
  - Examination Committee for Non-thesis M.S. 82/83, 83/84, 84/85 (Chair), 86/87, 87/88, 88/89 (Chair), 90/91
  - Assistantship Evaluation Committee 82/83, 83/84, 84/85
  - Curriculum Committee, 89/90
  - Library Committee, 93/94, 2004-2009
  - Social Committee, 2007/2008, 2008-2010 (Chair)
  - *75<sup>th</sup> Anniversary Committee: Member, in charge of Poster Session 2009*
2. **Positions held on regional, national, and international panels or committees; positions held in regional, national, and international professional organizations**
- Committee Member, *AFIPS Education Committee (ASA Representative)* 1988–1991
3. **Public service; presentations, readings, panel participation at the local level**
4. **Honors and awards for candidate’s service**