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Profile

PERSONAL

- ?? Date of Birth: May 19, 1960
- ?? Citizenship: United States
- ?? Family: Married Chetana in 1991
Son Harsha born in 1994
Daughter Siri born in 1999

PROFESSIONAL

- ?? Applied statistician, with a strong background in theoretical statistics
- ?? Research in statistical methodology
- ?? Project experience and user training in environmental data analysis
- ?? Teaching undergraduate and graduate courses in Statistics
- ?? Developing applied graduate programs in Applied Statistics
- ?? Statistical consulting with government and private clients
- ?? Service to the department, campus and professional societies
- ?? Administrative experience as the department chair and graduate program director

Education

- ?? Ph.D. 1986, Statistics, Iowa State University, Ames, Iowa.
Thesis title: Estimation of Stochastic Difference Equations with Nonlinear Restrictions
Thesis advisor: Professor Wayne Fuller, Iowa State University
- ?? M.S. 1982, Statistics, Indian Statistical Institute, Calcutta, India.
- ?? B.S. 1981, Statistics, Indian Statistical Institute, Calcutta, India.

Experience in Higher Education

- 1999- **Professor of Statistics**
Department of Mathematics and Statistics, UMBC
- 1993-99 **Associate Professor of Statistics**
Department of Mathematics and Statistics, UMBC
- 1987-93 **Assistant Professor of Statistics**
Department of Mathematics and Statistics, UMBC
- 1986-87 **Instructor**
Department of Mathematics and Statistics, UMBC
- 1982-86 **Research Assistant**
Survey Section, Department of Statistics
Iowa State University, Ames, Iowa

Administrative Experience in Higher Education

- 1996-1999 **Graduate Program Director**
Applied Mathematics and Statistics Program, UMBC
- 1999-2000 **Interim Chair**
Department of Mathematics and Statistics, UMBC

Experience in other than Higher Education

Visiting Appointments

- ?? 2002-current **Senior Mathematical Statistician**
Bureau of Transportation Statistics
Department of Transportation, Washington, DC
(On an Inter-Personnel Agreement assignment)
- ?? 1994-95 **Senior Research Scientist**
Pacific Northwest Laboratories, Richland, WA
- ?? 1989, 1990 **Statistical Consultant**
Technology International Inc., LaPlace, LA

Elected or nominated positions

- ?? Member of the Executive Committee
Center for Urban Environment Research and Education, UMBC
- ?? Member
American Statistical Association Committee on Energy Statistics

- ?? *Continuing Education Coordinator* 1995
Section on Statistics and Environment, American Statistical Association
- ?? *President* 1992-93
Maryland Chapter of American Statistical Association
- ?? *Data Analysis Work Group Member* 1990-94
Chesapeake Bay Monitoring Subcommittee
- ?? *Member, Scientific Advisory Group* 1998-99
Annual Conference on Contaminated Soils

Honors and Awards Received

- 2001 Awarded the **Distinguished Achievement Medal** by the **Section on Statistics and the Environment of the American Statistical Association** on August 6, 2001.
- 1982 Won cash award for **outstanding academic performance** in the Masters in Statistics degree at Indian Statistical Institute, Calcutta.
- 1978-81 Won cash awards **each year** for **outstanding academic performance** in the Bachelors in Statistics degree at Indian Statistical Institute, Calcutta.

Research Support and/or Fellowship

Inter-Personnel Agreement with the Department of Transportation "Statistical Methodologies in analyzing Transportation Data"

- ?? **\$80,000**, Department of Transportation (2002-2003)

Principal investigator for the ongoing project **Study of Statistical Methodologies for Modeling Environmental Data"** funded by United States Environmental Protection Agency.

- ?? **\$75,000**, United States Environmental Protection Agency (2000-01)
- ?? **\$47,500**, United States Environmental Protection Agency (1999-00)
- ?? **\$50,000**, United States Environmental Protection Agency (1998-99)
- ?? **\$90,000**, United States Environmental Protection Agency (1997-98)
- ?? **\$90,000**, United States Environmental Protection Agency (1996-97)
- ?? **\$57,000**, United States Environmental Protection Agency (1995-96)
- ?? **\$104,000**, United States Environmental Protection Agency (1993-94)
- ?? **\$97,000**, United States Environmental Protection Agency (1992-93)
- ?? **\$82,000**, United States Environmental Protection Agency (1991-92)

?? \$92,000, United States Environmental Protection Agency (1990-91)

Participated as a consulting statistician for projects in other UMBC departments.

- ?? Developing an indicator for bovine lameness based on limb movement variables (**P.I. Dr. Uri Tasch, Department of Mechanical Engineering, UMBC. Funded by the United States Department of Agriculture.**)
- ?? Fatigue Microcrack Initiation Mechanisms in Bone Cement (**P.I. Dr. Tim Topoleski, Department of Mechanical Engineering, UMBC. Funded by the Arthritis Foundation.**)
- ?? Acute Mechanical Mechanisms of Balloon Angioplasty" (**P.I. Dr. Tim Topoleski, Department of Mechanical Engineering, UMBC. Submitted to American Heart Association.**)
- ?? Development of a Quantitative Method for Indexing the Urban-Rural Gradient for National Census and Land Use Assessments" (**P.I. Dr. Tim Foresman, Department of Geography and Environmental Systems, UMBC. Funded by United States Census Bureau.**)

Invited (with funding) for collaborative research.

- ?? Invited for a two week visit to the Department of Mathematics and Statistics, Memorial University of Newfoundland, St. John, Canada, July 1--19, 1996.

Ph.D. Students

- ?? **Minglei Liu**, May 2004
- ?? **Santosh Sutradhar**, Dec 2001.
Thesis title: *Extra Variation models for categorical data*
(Joint advisor: Dr. Jorge Morel, Procter & Gamble, Cincinnati, OH)
Graduated and took a position in **Merck Pharmaceuticals, PA.**
- ?? **Maxime Bokossa**, May 1999.
Thesis title: *Parameter estimation in overdispersion models*
(Joint advisor: Dr. Jorge Morel, Procter & Gamble, Cincinnati, OH)
Graduated and took a position in **Synectics, Arlington, VA.**
- ?? **Anna Lurie**, May 1998.
Thesis title: *Change-point problems in time series models"*
Graduated and took a position as Statistical Analyst in **T. Rowe Price, Baltimore, MD**
- ?? **Soma Sengupta**, December 1994.
Thesis title: *On some aspects of composite sampling*
Graduated and took a position as Statistician in **Colgate-Palmolive, Piscataway, NJ**

M.S. Students

- ?? **Hannah Kyeyune**, May 2003

?? **Kerri-Ann Kelley**, Mar 2002.

Thesis title: *Logistic Regression Models for Groundwater Data*

Graduated and took a position in **Price-Waterhouse Inc., Washington, DC.**

?? **Joeseeph Stevano**, Jul 2000

Thesis title: Regression Models to compare the effect of labor unions on market pricing.

Graduated and took a position in **National Highway Traffic Safety Administration, Department of Transportation, Washington, DC.**

Publications

?? **Book**

Introduction to Environmental Statistics using SPLUS (with Steven P. Millard, Probability, Statistics and Information) published by **Chapman Hall/ CRC Press**, Boca Raton, Florida.

?? **Refereed Publications**

29. Sutradhar, S. K., Morel, J. G., and **Neerchal, N. K.** (2003). Goodness-of-fit tests for the overdispersion distributions for logistic regression models. To appear in **Proceedings of the Biopharmaceutical Statistics Section of American Statistical Association.**
28. Morel, J. G., Bokossa, M. C., and **Neerchal, N. K.** (2003). *Small Sample Correction for the Variance of GEE Estimator.* To appear in **Biometrical Journal.**
27. Volstad, J., **Neerchal, N. K.**, Sutherland, M., and Roth, N. (2003). *Combining estimators from surveys with different sampling Designs* To appear in **Ecological Indicators**, 2003).
26. Rajkondawar, P., **Neerchal, N. K.**, Lefcourt, A. M., Dyer, R. M., Varner, M. A., Ereze, B., and Tasch, U. (2002). *The Development of an Objective Lameness Scoring System for Dairy Herds: Pilot Study.* To appear in **Transactions American Society of Agriculture Engineers.**
25. Lacayo, H., **Neerchal, N. K.**, and Sinha, B. K. (2002). *Ranked Set Sampling of Dichotomous Data.* **Journal of Applied Statistical Sciences**, 11, No. 1, 83-90.
24. Morel, J. G. and **Neerchal, N. K.** (2000). *Extra Variation Models.* **Encyclopedia of Biopharmaceutical Statistics**, 197-209.
23. Lurie, A. and **Neerchal, N. K.** (1999). *Bayes-Type Tests for Constancy of the Parameters of an AR Process.* **Journal of Environmetrics**, **10**, 737-752.
22. **Neerchal, N. K.** and Morel, J. G. (1998). *Large Cluster Efficiency of Two Parametric Multinomial Extra Variation Models.* **Journal of American Statistical Association**, **93**, 1078-1087.

21. **Neerchal, N. K.**, Lacayo, H., Ross, N. P., and Legore, T. (1998). *Sample Size and Risk in Site Investigatin..* **Encyclopedia of Environmental Remediation**, 4221-4240.
20. Morel, J. G. and **Neerchal, N. K.** (1997). Cluster Binary Logistic Regression Using a Finite Mixture Distribution with Application to Teratology Experiment. **Statistics in Medicine**, **16**, 2843-2853.
19. Bose, A. and **Neerchal, N. K.** (1997). *Estimation of Autoregressive Parameters with Systematic but Incomplete Samplin.* **Proceedings of 2nd Triennial Symposium on Probability and Statistics**, Calcutta, India, 41-51.
18. Lu, X., Topoleski, L. D. T., and **Neerchal, N. K.** (1997). *The influence of Notch Tip Geometry on Fatigue Crack Initiation in PMMA Bone Cement.* **Abstracts of 23rd Annual Meetings of the Society for Biomaterials.**
17. **Neerchal, N. K.** and Sengupta, S. (1996). *Variance Estimation with Composite Sampling.* **Journal of Applied Statistical Sciences**, **3**, 35-44.
16. **Neerchal, N. K.** and Legore, T. (1995). *Decision Analysis Approach to Sample Size Determination.* **Proceedings of Waste Technology and Quality Assessment Conference**, Washington, DC.
15. **Neerchal, N. K.** and Shafer, R. (1995). *Spatial Analysis of Benthic data from the Chesapeake Bay.* **Proceedings of ASA Section on Statistics and the Environment.**
14. Sengupta, Soma, and **Neerchal, N. K.** (1994). *Classification of Grab Samples Using Composite Sampling: An improved Strategy,* **Calcutta Statistical Association Bulletin**, **44**, 195-208, (1994).
13. **Neerchal, N. K.**, Papush, Gina, and Shafer, R. (1994). *Statistical Method for Measuring DO restoration Goals by Combining Monitoring Station and Buoy Data.* **Computer Techniques in Environmental Studies V, Proceedings of Envirosoft 94**, 227--235, (1994).
12. **Neerchal, N. K.** and Shafer, R. (1994). *A Mapping Procedure for Chesapeake Bay Data.* **Numerical Methods in Water Resources** by A. Peters, G. Wittum, B. Herling, and U. Meissner (eds).
11. **Neerchal, N. K.** and Brunenmeister, S. L. (1993). *Accommodation of Below Detection Limit Data in Trend Estimation for Water Quality Variables,* **Environmental Statistics, Assessment and Forecasting** by C. Richard Cothorn and N. Phil Ross (eds), 113--127.
10. **Neerchal, N. K.** and Brunenmeister, S. L. (1993). *Estimation of Trend in Chesapeake Bay Water Quality Data,* **Multivariate Environmental Statistics** by G. P. Patil and C. R. Rao (eds), 407--421.
9. **Neerchal, N. K.** and Reddy, C. S. (1993). *Asymptotic Nonnull Distributions of some Tests for Change in Level when Data is Correlated,* **Proceedings of the First Triennial Symposium on Probability and Statistics**, Calcutta, India, 126--135.

8. **Neerchal, N. K.** and Reddy, C. S. (1993). *Asymptotic Null Distributions of Tests for Change in Level for Correlated Data*, **Sankhya**, **55**, 37--48.
7. **Neerchal, N. K.** and Fuller, W. A. (1992). *Least Squares Estimation of the Linear Model with Autoregressive Errors. New Directions in Time Series Analysis Part I*, Brillinger, D., Parzen, E., and Rosenblatt, M. (eds), IMA volumes in Mathematics and its Applications, IMA, Minneapolis, MN.
6. **Neerchal, N. K.** and Fuller, W. A. (1991). *Estimation of the Parameters of Linear Time Series Models Subject to Nonlinear Restrictions*, **Annals of Statistics**, **19**, 1143--1154.
5. **Neerchal, N. K.** (1990). Two-Sided Tests for Change in Level for Correlated Data. **Statistische Hefte**, **31**, 181-194.
4. **Neerchal, N. K.** (1990). *Locally Optimal Invariant Tests for Change in Level*, **Communications in Statistics**, **19**, 869--878.
3. Lo, James T-H., Rukhin, Andrew L., and **Neerchal, N. K.** *Cyclic Regression for Weighted Subspace Fitting to Find Multiple Signal Directions*), **Proceedings of OCEANS'90 Conference**, 518--522.
2. **Neerchal, N. K.** and Brunenmeister, S. L. (1989). *An Application of Seemingly Unrelated Regression Estimation (SURE) to Characterizing Trends in Total Phosphorus in the Upper Chesapeake Bay, October 1984 to September 1989. New Perspective in the Chesapeake System: A Research and Management Partnership, Proceedings of a Conference*, Chesapeake Research Consortium Publication No. 137, 355--369, CRC, P. O. Box 1280, Solomons, MD 20688.
1. **Neerchal, N. K.**, Liang, Enju, Rodriguez, Rodrigo J., and Husseiny, Abdo A. (1989). *A Systematic Approach to the Design and Reliability Analysis of a Fault-Tolerant Controller*. **Reliability Engineering and System Safety**, **24**, 297--342.

?? **Work in Progress**

1. *Analysis of Overdispersion Models using Generalized Estimating Equations*, (with Maxime Bokossa and Jorge Morel) submitted.
2. *Ranked Set Sampling in Bioequivalence testing*, (with Hannah Kyeune), in preparation.
3. Goodness-of-fit tests for overdispersion models, (with Santosh Sutradhar and Jorge Morel), In preparation.

Software Development

- ?? Designed and developed **Time Series Tutor, a self-guided tour of basic concepts in Time Series Analysis**. TST is coded in C and runs on any IBM-compatible personal computer. TST is available at www.math.umbc/nagaraj and used in providing basic training in Time Series Analysis to managers.

- ?? Designed and developed **Interactive Multivariate Time Series Analysis (IMTSA)** program. IMTSA is coded in C and runs on any IBM-compatible personal computer. This interactive program was developed to obtain **trend estimates for pollution data** and includes the use of **Bootstrapping** to estimate standard errors.
- ?? Developed computer codes for **Bayesian estimation of Dose-response models**. Dose-response models are used in Toxicology to study the effect of carcinogens on animals and extrapolate the results to humans.

Short Courses Taught for Professionals

- ?? Introduction to the basics of PC SAS, Office of Information Technology, UMBC, Baltimore, MD, February 17 and February 19, 2003.
- ?? Introduction to Logistic Regression II, Bureau of Transportation Statistics, Department of Transportation, Washington DC, March 6, 2002 and March 13, 2002.
- ?? Introduction to Logistic Regression I, Bureau of Transportation Statistics, Department of Transportation, Washington DC, April 6, 2002 and June 12, 2002.
- ?? *Sampling Designs and Statistical Methods in Environmental Studies*, 14th Annual Conference on Contaminated Soils, Amherst, MA, October 18-21, 1999.
- ?? *Introduction to Environmental Statistics using S-PLUS*, Joint Statistical Meetings, Dallas, TX August 7-12, 1998.
- ?? *Sampling Designs and Statistical Methods in Environmental Studies*, 14th Annual Conference on Contaminated Soils, Amherst, MA, October 19-22, 1998.
- ?? *Environmental Statistics for Planning Data Collection*, University of Maryland Baltimore County, January 21-31, 1998.
- ?? *Time Series Analysis and Trend Estimation using S-PLUS*, United States Environmental protection Agency, Washington, DC, October 7, 1997 and Raleigh, NC, October 9, 1997.
- ?? *An Introduction to Environmental Statistics using S-PLUS*, Joint Statistical Meetings, Anaheim, CA, August 8-12, 1997.
- ?? *An Introduction to Environmental Statistics using S-PLUS*, The 12th Annual EPA Conference on Statistics, Richmond, VA, April 1-4, 1997.
- ?? *Using Environmental Statistics to Plan Your Data Collection Program*, A Two-day Short Course at the Department of Engineering Professional Development, College of Engineering, University of Wisconsin, Madison, October 30-31, 1995.

Initiating Distance Education

- ?? Taught Environmental Statistics course over **Interactive Video Network (IVN)** to a large class including Marine, Estuarine, and Ecological Studies (MEES) students in 5 sites of the University of Maryland System. This is the **first such course in our Department**.

Statistical Consulting

- ?? Provided statistical expert advice to **KPFM&G Associates**, a well-known Baltimore accounting firm, in settling a lawsuit.
- ?? Provided statistical support to **Rainbow Technologies, Inc.**, in water quality data analysis.
- ?? Directed the **analysis of hospitalization rate of various injury types**, using Seemingly Unrelated Regression technique, to see if the rates were significantly different between the state of New York and other states. The project was sponsored by **PRACON, Reston, VA**.
- ?? Directed a project to review various estimation methods for the multistage dose-response model. A report, namely,
 - ?? **Estimating Carcinogenic Potency: A Review Parameter Estimation Methods for the Linearized Multistage Model"**, was prepared and submitted to the sponsor American Management Systems, Inc. and to Project Officer Mr. Timothy Barry, **Science-Policy Integration Branch, Environmental Protection Agency**.
- ?? Directed a project to explore the feasibility of Bayesian estimation of multistage dose-response model. A report, namely,
 - ?? **Statistical Study of Bayesian Dose-Response Models"**, was prepared and submitted to the sponsor **Statistical Policy Branch of Environmental Protection Agency** and the Project Officer Dr. Pepi Lacayo.
- ?? Directed a project on applying grafted polynomials regression to model remotely sensed data and submitted a report, namely,
 - ?? **Modeling Remotely Sensed Data by Fractals and Spatial Statistics"**, to the sponsor **Technology International Inc., LaPlace, LA**.
- ?? Participated in the project **Multivariate Analysis of Complex Survey Data"** at **Technology International Inc., La Place, LA**. The project involved developing a personal computer software in C to analyze multivariate data collected in stratified multi-stage cluster sampling.

Professional Activities

?? Professional Service

2002—2005 *Associate Editor*,
Communication in Statistics

2000--2003 *Associate Editor*,
Human Ecology and Risk Assessment Journal.

August 9-10, 1999 *Co-Coach*,
UMBC's College Bowl Team, which finished runner-up.

July 5, 1998 *Organizer*,

Special Session on Environmental Policy and Information, The 9th International Conference of the The International Environmetrics Society, Gold Coast, Australia.

March 7, 1996 *Organizer*,

Short course on Regression Diagnostics in Washington, DC, for the EPA Statisticians.

March 9, 1996 *Organizer*,

Short course on Regression Diagnostics in Raleigh, NC, for the EPA Statisticians.

August 8, 1996 *Organizer*,

Short course on Ranked Set Sampling in Joint Statistical meetings, Chicago, IL, Sponsored by Section on Statistics and the Environment of American Statistical Association.

1985-- *Reviewer of articles or proposals for:*

American Statistician

Canadian Journal of Statistics

Environmetrics

IEEE Transactions in Automatic Control

Journal of Agricultural, Biological and Environmental Statistics

Journal of American Statistical Association

Journal of Applied Statistical Science

Journal of Business and Economic Statistics

Journal of Environmental and Ecological Statistics

Journal of Financial Management

Journal of Johns Hopkins University-Applied Physics Laboratory

Journal of Time Series Analysis

National Science Foundation

Sankhya

Statistics and Probability Letters

Water Resources Research

?? **Membership in professional organizations**

American Statistical Association

The International Environmetrics Society

?? **Invited Presentations**

1. Invited speaker in the special session in honor of Professor Ian MacNeill, The 9th International Conference of the The International Environmetrics Society, Gold Coast, Australia, July 3--6, 1998.
2. Invited speaker at the School of Mathematics and Center for Industrial and Applicable Mathematics, University of South Australia, Levels Campus, Adelaide, Australia, June 25, 1998.
3. Invited speaker at the Joint Statistics Seminar of Department of Statistics and Australian Graduate School of Management, University of New South Wales, Sydney, Australia, June 24, 1998.

4. Invited speaker at the meetings of the Chesapeake Chapter of the American Statistical Association, Aberdeen Proving Ground, MD, November 13, 1997.
5. Invited speaker for the Seminar Series at the Department of Mathematics and Statistics, University of South Alabama, Mobile, AL, April 25, 1997.
6. Session Chair, The International Environmetrics Society Meetings, Kuala Lumpur, Malaysia, December 6-9, 1995.
7. Invited speaker for the Seminar Series of Program in Statistics, Washington State University, February 16, 1995.
8. Invited speaker at The International Environmetrics Society Meetings, Burlington, Canada, August 12-15, 1994.
9. Invited speaker at The International Environmetrics Society Meetings, Perth, Australia, December 6-10, 1993.
10. Invited speaker at the US EPA/NISS Workshop on Statistical Methods for Combining Environmental Information, Chapel Hill, North Carolina, September 27-28, 1993.
11. Invited speaker at the Department of Biometry, Louisiana State University Medical Center, New Orleans, Louisiana, March 17, 1993.
12. Invited speaker at the Department of Epidemiology and Biostatistics, University of South Florida, Tampa, March 24, 1992.
13. Invited speaker for the Methodology Seminar of Washington Statistical Society, February 27, 1992.
14. Invited speaker at the Technical Seminar of Applied Physics Laboratory of Johns Hopkins University, May 5, 1991.
15. Invited discussant for the session "Evaluating Cleanup Standards" at the Sixth Annual EPA Conference on Statistics, March 26-29, 1990, Williamsburg, VA.

?? **Papers presented in Conferences**

1. *A Case Study on Suitability of Toxics Release Inventory System Database for Secondary Purposes: Reporting Trends in Toxic Releases in Maryland*, Special Session on Environmental Policy and Information, The 9th International Conference of the The International Environmetrics Society, Gold Coast, Australia, July 3-6, 1998.
2. *On Ranked Set Sampling*, The Silver Jubilee Meetings of the Statistical Society of Canada, Fredericton, Canada, June 2-6, 1997.
3. *A Decision Analysis Approach to Determining Sample Size for Site Investigation*, The Eleventh Annual Waste Testing & Quality Assurance Symposium, July 23-28, 1995.
4. *Spatial Analysis of Benthic Data from the Chesapeake Bay*, The International Environmetrics

Society Conference, Burlington, Ontario, Canada, August 12--15, 1994.

5. *Estimation of Trend in Water Quality Data*, at International Congress on Modelling and Simulation, December 6--10, 1993.
6. *Analysis of Benthic Data from the Chesapeake Bay*, EPA/NISS workshop on Combining Environmental Information, September 27--28, 1993, Chapel Hill, NC.
7. *A tutorial introduction to Time Series Analysis and Box-Jenkins Methodology*, 9th Annual EPA Conference on Statistics, March 1--4, 1993, Baltimore, MD.
8. *An Approximation for the Information Matrix of a Finite Mixture of Multinomials and its Application to Modeling Extra Variation*, at Joint Statistical Meetings 1992, Boston.
9. *Estimation of trend in Chesapeake Bay Water Quality Data*, Seventh International Conference on Multivariate Analysis, May 5--9, 1992, University Park, PA.
10. *A new method to accommodate Censored Data in Trend Analysis with applications to Chesapeake Bay Water Quality Monitoring Program*, 8th Annual EPA Conference on Statistics, March 9--12, 1992, Philadelphia, PA.
11. *Asymptotic Distributions of Tests for Change in level in Associated Data*, First International Triennial Symposium on Probability and Statistics, December 29--31, 1991, Calcutta, India.
12. *Two-Sided Tests for Change in Level for Correlated Data*, Australasian Meeting of the Econometric Society 1989, Armidale, NSW, Australia.
13. *Estimation of Stochastic Difference Equations with Nonlinear Restrictions on the Parameters*, NBER-NSF Seminar on Time Series, 1987, Raleigh, NC.
14. *Linear Models with Nonlinear Restrictions*, Joint Statistical Meetings 1987, San Francisco.

University and Community Service

?? Graduate Program Director for the Department of Mathematics and Statistics, UMBC, 1996--1999.

- Implemented new ideas into the MS program in Statistics. Introducing a track in Environmental Statistics. A proposal for a track in Biostatistics is under consideration by the Graduate Council.
- Conducted weekly **graduate students seminars** to inculcate presentation skills. Brought Toastmasters" structure to the graduate student seminar. (A student is designated as a chair for a session with two speakers and two evaluators. The Evaluators give concrete feedback on presentation aspects of the speakers immediately following the speech.) Faculty are recruited as evaluators and this increased faculty participation. Took the necessary steps to make the seminar mandatory for all supported students. **Seminar series has been cited by many colleagues as "the highlight" among departmental activities.**
- Used my contacts at MathSoft, and ITP Publishing Co. and obtained **the first corporate sponsorship for the Graduate Student Research Day, 1997**. The companies gave away software and books as prizes for all the winners.

- Conducted annual departmental orientation for the new graduate students. **As a new feature**, incorporated a workshop on teaching into the orientation program with **invited speakers from Learning Resources Center**.
- Pushed for a campus-wide orientation for all incoming graduate students. Participated in the planning of the **first campus-wide orientation of all new graduate students**.
- Arranged **campus interviews** for all local applicants for our graduate program. This **new approach** has proved to be a very effective. We have four local students admitted with support this year.
- Worked with the Undergraduate Council of Majors and Pi-Mu-Epsilon (the undergraduate honor society) **to publicize the Combined BS/MS program** offered by the department.
- **Increased the recruiting efforts** within the United States and outside. Interviewed each candidate for graduate assistantship (telephone interview for international applicants). The efforts have resulted **in significant improvement in the quality of spoken English ability** among incoming Graduate Assistants. This year, we recruited a total of 10 graduate assistants, including 4 from United States.
- Organized **bi-weekly Software Study" group meetings** where Students and interested faculty meet regularly and teach each other new developments in statistical software. Meetings help to increase the **overall level of software knowledge** among students and **to foster a community spirit** in the department.
- Re-designed and updated the **Graduate Program Web Page** of the department. Regularly **contributed pictures** of graduations, departmental activities, and social functions to the web page.

?? **Designed courses in Applied Statistics, which emphasize data analysis using statistical software such as SAS and SPLUS.**

- Regression Methodology (STAT 601)
- Applied Time Series Analysis (STAT 617)
- Environmental Statistics (STAT 414/614)

?? **Provided research assistantships to graduate students.**

- Robert Moore III, Jingping Shi, Soma Sengupta, Amit Bhattacharyya
- Sanjoy V., Mukund Mohan, Liyu Li, Ying Hu, Anna Lurie
- Gina Papush, Yijun Sun, Krishna Saha, Avinash Ramadas

?? **Served in the Masters and Ph.D. committees.**

- M.S., Statistics:
Tyrone McCoy, Joe Costa
- M.S., Applied Mathematics:

Cathy Gross

- Ph.D., Statistics:

Dulal Bhaumik, Nabendu Pal, Anindita Niyogi, Jingping Shi, Isabella Peszek, LePing Zhou, Kevin Drummey, Dayong Li, Zhiyuan Liang, Manoj Sharma, Robert Kelley

- Ph.D., Applied Mathematics:

Joe Clements, Melvin Sanders

?? **Aided students in obtaining employment and internships**

- Pursued my contact at **T. Rowe Price, Baltimore** and obtained a Summer (1997) internship for **Anna Lurie**. After her graduation, Anna accepted regular employment at T. Rowe Price.
- Used my contact at **Procter & Gamble, Cincinnati** and obtained Summer internships (1997, 98) for **Maxime Bokossa**.
- Pursued my consulting client contact at **Technology International Inc., LaPlace, LA** to secure employment for **Brenda Odom**.
- Used my contacts at Environmental Protection Agency and helped **Nicole Cortina** obtain an internship at Environmental Protection Agency. After completing the internship, Nicole took regular appointment as a Statistician at the Agency.
- Helped **Mr. Anders Longthorne** to obtain employment as a Statistical Programmer at **Rainbow Technology Inc.**, a computer consulting firm.

?? Served in the Statistics faculty recruitment committees.

?? Appointed by **Graduate Dean, Dr. Scott Bass** to be the chair of the Associate Dean Search Committee.

?? Served in the Departmental Chair Search Committee, which ended its successful search by recruiting Prof. Florian Potra.

?? Member of the UMBC team making presentations to the **Staff of Senator Barbara Mikulski** on April 9, 1998. Appointed by **Graduate Dean, Dr. Scott Bass**. Successful presentation has led to inclusion of specific mark-up language in a bill on the US Senate floor, which is expected result in funding to UMBC to establish a **Center for Environmental Research**.

?? Member, **Provost's Environmental Sciences Degree Planning Group**. The group has a draft of the final proposal and preparing to send out a **letter of intent for a B.S. Degree in Environmental Sciences**.

?? Elected Member, **Joint Graduate Council for UMBC and UMB**. (1998--2000)

?? Member, **Academic Planning and Budget Committee**. (2000-2005)

?? Member, **Faculty Grievances subcommittee** of Joint Graduate Council for UMBC and UMB. (1998--2000)

?? Member, **Program Review Subcommittee** of Joint Graduate Council for UMBC and UMB. (1998-2000)

?? Member, **Ph.D. or M.S. thesis committees** in UMBC.

Xin Lu (Ph.D., Mech Eng), Ishan Weerakoon (Ph.D., Computer Science)

Community Activities

?? **Member**, Technology committee of the Parent Teacher Association of Centennial Lane Elementary School, Ellicott City, MD. 2001-2002

?? **Vice President**, Parent Teacher Association of Centennial Lane Elementary School, Ellicott City, MD. 2000-2001

?? **Secretary**, Columbia Toastmasters, 1997-98

?? **Actor**, Community Plays

?? **Joint Secretary**, Kaveri, Kannada Cultural Association, 1997-98

?? **Co-editor**, Newsletter of Kaveri, 1997-99

References

Available upon request.