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## **HAIKADY N. NAGARAJA**

Professor Emeritus  
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### **Education**

<i>B. S. (Mathematics, Statistics)</i>	1972	University of Mysore, Mysore, India
<i>M.S. (Statistics)</i>	1974	University of Mysore, India
<i>Ph.D. (Statistics)</i>	1980	Iowa State University, Ames, Iowa

### **Professional Experience**

07/2015-	Professor Emeritus, The Ohio State University (OSU)
10/2013-08/2019	Member, Center of Excellence in Regulatory Tobacco Science, OSU.
10/2010-06/2015	Chair, Division of Biostatistics, College of Public Health, OSU
10/2010-06/2015	Professor of Biostatistics, OSU
07/1994-06/2015	Professor of Statistics, OSU
11/1995-06/2015	Professor of Medicine, OSU
8/1993 -10/2009	Biostatistician, Clinical Research Center, College of Medicine, OSU
1986-94	Associate Professor of Statistics, OSU
1980-86	Assistant Professor of Statistics, OSU
1977-80	Graduate Teaching and Research Associate in Statistics, Iowa State University
1974-77	Lecturer, Department of Postgraduate Studies and Research in Statistics, University of Mysore, India

### **Short Term Visits/Appointments**

Visiting Lecturer, Indian Statistical Institute, Bangalore Centre (7/81 - 2/82); Visiting Associate Professor, University of California, Riverside (9/89 - 6/90) (on sabbatical leave from OSU); Visiting Scientist, Iowa State University (6/90-7/90); Consultant, Statistical Consulting Service, OSU (92-93); Visiting Scientist, University of Concepcion, Chile (March 2000); Visiting Scientist, Fudan University, Shanghai, China (10/2010-11/2010), Visiting Scientist, National Center for Biological Sciences, Bengaluru, India (one week, 1/2016); Visiting Scientist, South China Agricultural U, Guangzhou, China (10/2016-11/2016); Visiting Scientist, Indian Institute of Science, Bengaluru (3/2017-4/2017; 8/2017; 1/2018); Visiting Professor, University of International Business and Economics, Beijing, China (7/2018); Visiting Professor, Indian Institute of Science, Bengaluru (1/2019; 1/2020).

### **Honors and Awards**

Outstanding Service Award, International Indian Statistical Association, 2016  
Fellow, American Association for the Advancement of Science, 2012  
President, International Indian Statistical Association, 2010-2011  
Fellow, American Statistical Association, 2000  
Elected member, International Statistical Institute, 1993  
Powers award for excellence in the teaching of Statistics, Ohio State University, 1993  
Finalist for University Distinguished Teaching Award, 1994, 1995.  
Nominee for the Outstanding Teaching Award, Arts and Sciences Student Council, 1987, 1996  
G. W. Snedecor award as the most outstanding Ph.D. candidate in Statistics at Iowa State University for the year 1980  
Phi Kappa Phi, 1980; Sigma Xi, 1980  
American Statistical Association, JSM Travel Award, 1978

Extended Premium for Academic Excellence Award, Iowa State University, 1977-80  
 First place in M.S. (Statistics), 1974; Gold Medalist  
 Second place in B.S., 1972 (out of over 5000 students)  
 Certificate of achievement as the best outgoing student of the college for the year 1972  
 Government of India National Merit Scholarship, 1968-74

### Current Research Interests

Order and Record Statistics, Measuring Agreement, Stochastic Modeling of Biomedical Data, Biostatistical Applications.

### Current/Past Professional Affiliations

American Association for the Advancement of Science, International Statistical Institute, American Statistical Association, International Indian Statistical Association, Indian Society for Probability and Statistics, Institute of Mathematical Statistics, International Biometric Society.

### Teaching

#### Ohio State University

##### Department of Statistics

##### Student Group

Elementary Undergraduate Statistics/Biostatistics  
 (125, 133, 145, 245, Biostat H318)

Science, humanities, nursing, business majors

Probability and Mathematical Statistics for Engineering and the Sciences  
 (421, 425, 426, 427)

Electrical Eng., Industrial and Systems Eng., Computer Sci., Actuarial Sci. undergraduates

Probability and Mathematical Statistics (520, 521, 525)

Non-Stat major graduates and Actuarial Science undergraduates

Data Analysis I (528)

Non-Stat major graduates and senior undergraduates.

Probability (610), Statistical Inference (623), Applied Stochastic Processes, I and II (632, 633), Introduction to Statistical Practice I (628) Survey Sampling (651), Multivariate Data Analysis (655), Statistical Quality Control (664); Applied Stochastic Processes. Design and Analysis of Clinical Trials (Biostat615)

Master of Applied Statistics, Graduate students minoring in Statistics, First year stat. graduate students.

Distribution Theory (720), Order Statistics (764)

Biostat. Ph.D.'s and graduate students from Stat., Bio, Medical Sciences  
 M.S. and Ph.D. students in Statistics

Multivariate Analysis I, II (755, 756), Applied Probability Models (832), Statistical Inference I and II (821, 822), Large sample theory (888)

Stat. Ph.D.'s

Special Topic Courses on Reliability and Record Statistics (881, 882)

Stat. graduates

Individual Studies on various topics (693, 893)

Stat. graduates

Dissertation Research (999)

Stat., Biostat Ph.D.'s

##### College of Public Health, Division of Biostatistics

Design and Analysis of Studies in the Health Sciences II (PHBIO 702)  
 Individual Studies (PHBIO 793)

MPH, and PhD in Public Health students

Pre candidacy PhD students in Biostatistics

Clinical Trials (PHBIO 7215)

Graduate Students in Stat, Biostat, Epi

Biostatistical Consulting (PHBIO 7245)

Graduate Students in Biostat

Field Experience in Global Public Health –India (PUBH 3189.01) (May 2013, 2014, 2015, 2016)	Undergraduate Students (17-20 per batch)
Field Experience in Global Public Health –India (PUBH 6189.02) (May 2016)	Graduate Students (1)

### Other Instructional Activities

Basic Biostatistics for Medical Researchers, a 10 hour course for researchers in the OSU Medical School (September 2011, Aug 2012, Aug 2013, Aug 2014, Sept 2015 (3 times), Sept 2016 (twice), Sept 2017 (twice), Sep 2018 (twice)), Sep 2019 (twice), Sep 2020 (twice), Sep 2021 (twice))	Fellows, junior faculty, and students from Department of Internal Medicine, OSU (about 20-25 per batch)
An Introduction to Extreme Order Statistics and Actuarial Applications (3 hour course), April 26, 2004, Chicago.	SOA/CAS /Bowles Enterprise Risk Management Symposium (Actuarial Society Meetings)
A Gentle Introduction to SAS JMP (A short course), September 2001, Nov. 2003, Sept. 2004.	Fellows, residents, students and faculty from OSU Medical School
Biostatistics for Medical Researchers, a 10 hour noncredit course offered under the auspices of General Clinical Research Center (twice a year 1994 -2000).	Fellows, residents and faculty members from OSU Medical School (Trained over 100 professionals)
'Sample Survey-Design and Analysis' - jointly with Professor D. R. Whitney during July, 1983. This 3-day course was offered under the auspices of the Office of Continuing Education.	Engineers and others from industry and government

### **Other Institutions**

<i>U. of Mysore</i>	Real Analysis, Point Estimation, Statistical Laboratory for graduate students in Statistics
<i>Iowa State U.</i>	Statistical Theory (Stat 447, 448) for graduate students minoring in Statistics
<i>U. California, Riverside</i>	Stochastic Processes, Order and Record Statistics for graduate students in Statistics
<i>Manipal U, India</i>	Clinical Trials, A short course (December 21, 22, 2011)
<i>National Centre for Biological Sciences, Bengaluru, India</i>	Biostatistics Course for Biomedical Researchers (A 15 hour course aimed at PhD students and post-doctoral researchers in Biological Sciences (January 25-29, 2016) [30+ students]
<i>South China Agricultural U, Guangzhou, China</i>	Five lectures on Statistical Methods and Scientific Writing. (Oct 19, 21, 28, Nov 2, 7, 2016) [50+ participants]
<i>Indian Institute of Science, Bengaluru</i>	Topics on Biostatistics (An 18 hour course aimed at PhD students and post-doctoral researchers in the Centre for Ecology (March 28- April 7, 2017) [25+ participants]
<i>Indian Institute of Science, Bengaluru</i>	Generalized, Linear Mixed Effect Models (A 15 hour course aimed at PhD students in the Centre for Ecological Sciences) (Jan 2-12, 2018)[20+ participants]; Basic Statistics for Ecologists (A 24 hour course, Jan 2019 [20+ participants] , Jan 2020 [15 participants]
<i>U. of International Business and Economics, Beijing</i>	Applied Stochastic Processes, July 2018 (2 credit course for undergraduates) [62 students]
<i>Joint Statistical Meetings, Vancouver, Canada</i>	Analysis of Continuous and Categorical Method Comparison Data (1 day ASA CE short course), July 30, 2018; co-taught with Dr. P. K. Choudhary.

### **Curriculum Development (at OSU)**

Order Statistics (Stat 764; 1982); Statistical Quality Control (Stat 664; 1985); Honors Course in Biostatistics (Bios/Stat 318; 1997) Record Values and Related Statistics (Stat 882; 1988); Probability Models in Reliability Theory (Stat 881; 1989); Distribution Theory (revised Stat 720; 1991); Seminar on Statistical Research (Stat 801, introduced components on survey of research resources and technical writing, 1994). Short course on Biostatistics for Medical Researchers (1994); Buzzwords in Biostatistics, Nephrology Fellow Training Course (2010); Basic Biostatistics for Medical

Researchers (2011); Field Experience in Global Public Health: India (2012).

#### **Ph.D. Students (Statistics and Biostatistics)**

1. John A. Bunge (1989): Distribution Theory for Record Statistics from Random Record Models (Professor, Department of Statistical Science, Cornell University, Ithaca, NY; Current/recent: Director of Professional Programs).
2. Mohammad Z. Raqab (1992): Predictors of Future Order Statistics from Type II Censored Samples (Professor of Statistics, Department of Mathematics, University of Jordan, Amman, Jordan).
3. Geraldine E. Baggs (1994): Properties of Order Statistics from Bivariate Exponential Distributions (Abbott Nutrition, Columbus, OH).
4. Glenn Hofmann (1997): A Family of General Record Models (Vice President of Analytic and Decision Services, TransUnion, Chicago).
5. Scott Linder (1998): Impact of Censoring on Sample Variances and Regression Coefficient in a Bivariate Normal Model (Professor of Statistics and Computer Science, Ohio Wesleyan University, Delaware).
6. Zaher A. Abo-Eleneen (co-Advisor) (2001): Fisher Information in Order Statistics and Their Concomitants (Associate Professor, Department of Computer Science, Zagazig University, Egypt; PhD degree from Zagazig Univ.).
7. Pankaj K. Choudhary (2002): Assessment of Agreement and Selection of the Best Instrument in Method Comparison Studies (Associate Professor of Mathematical Sciences, University of Texas at Dallas).
8. Sumithra J. Mandrekar (2002): Modeling of Heart Period Data and A Study of the Associated Spectral Measures. *One-of-A-Kind PhD program* (Associate Professor of Biostatistics, Mayo Clinic, Rochester, MN).
9. Yuxiao Tang (2004): Inference on Cross Correlation with Repeated Measures Data (Biostatistician, Meningitis Vaccine Project, PATH, Seattle).
10. Marilisa G. Gibellato (Elrod) (2005): Stochastic Modelling of the Sleep Process (MD, PhD in Biostat); (US Navy, NAVSUB Base, Groton, Connecticut)
11. Junfeng Sun (2005): Stochastic Models for Compliance Analysis and Applications (Biostatistics; Mathematical Statistician, National Institutes of Health, Bethesda).
12. Jesse C. Frey (2005): Inference Procedures Based on Order Statistics (Professor, Villanova University, Philadelphia)
13. Xiaobai Li (2006): Stochastic Models for MRI Lesion Count Sequences from Patients with Relapsing Remitting Multiple Sclerosis (Senior Consulting Biostatistician, Center for Biostatistics, Ohio State University)
14. Yanxing Zhao (2006): Parametric Inference from Window Censored Renewal Process Data (Senior Biostatistician at Otsuka Pharma, Rockville, MD)
15. Qinying He (2007): Inference on Correlation from Incomplete Bivariate Samples (Professor, School of Economics & Management, South China Agricultural University, Guangzhou, China).
16. Ke Wang (2008): On concomitants of order statistics (Assistant Professor, Department of Statistics, Fudan University, Shanghai, China).
17. Mallik Rettiganti (2010): Statistical Models for Count Data from Multiple Sclerosis Clinical Trials and their Applications (Assistant Professor, University of Arkansas for Medical Sciences, Little Rock).
18. Lira Pi (2012): Fisher Information in Censored Samples from Univariate and Bivariate Populations and Its Applications (Post Doc, UNC Chapel Hill).
19. Alice Hinton (2014): Contribution to discriminant analysis of cross-sectional and longitudinal data with applications (Biostatistics with spl. in Public Health; Biostatistician, College of Public Health and Department of Internal Medicine, OSU)

20. Shasha Bai (2014)(Co-advisor): Inference on intraclass correlation coefficients arising in a general clustered repeated measures design (Biostatistics with spl. in Public Health; Assistant Professor, University of Arkansas for Medical Sciences, Little Rock).

In addition, have served on Ph.D. dissertation reading committees of students from Accounting, Biostatistics, Civil Engineering, Computer & Information Science, Exercise Physiology, Immunology, Industrial & Systems Engineering, Nutrition, and Statistics. Also, served on MS thesis committee for two students in Dental Science.

### **Masters Students (with thesis)**

1. Ms. Jin Peng, MS in Public Health Spl. Biostatistics. Thesis: Count Data Models for Injury Data from the National Health Interview Survey (NHIS); Spring 2013
2. Mr. Habteab Gebreab, MS in Public Health, Spl. Biostatistics. Thesis: Perception of Ohio School Food Service Directors Towards Salad Bar and Its implications: An Exploratory Analysis; Summer 2013.
3. Ms. Lisa Yahle-Dunbar, MPH (Program for Experienced Professionals). Culminating Project: An Academic Pathology Service Line Evaluation Using Lean Management Principles; Spring 2015.
4. Mr. Alexander Ward, MS in Public Health Spl. Biostatistics. Thesis: Modeling Response Patterns for a Large-Scale Mail Survey Study Using Mixture Cure Models; Spring 2019.

### **Mentor, Summer Research Experience for Undergraduates**

Amy McGregor, Virginia Polytechnic Institute, 2001; Shannon Fraker, Virginia Tech, 2002; Peter Sprangers, St. Olaf College, Minnesota, 2002; Jason Rogowski, Gustavus Adolphus College, 2003; Lee Strassenburg, Pomona College, California, 2004; Jonathan F. Joseph, University of New Orleans, 2008.

**Other Mentoring:** Have mentored several fellows in the College of Medicine.

### **Local Seminar Organizations and Hosting of Visitors**

*Academic Year 1984-85:* Organized weekly seminar talks including 23 from out-of-town statisticians.

*Spring 1988:* Organized a series of lectures by Prof. Abram Kagan (now at Univ. of Maryland, College Park) on characterizations of distributions.

*Autumn 1992- Spring 1994:* Organized nine interdisciplinary seminar talks on heart rate variability including six from off-campus speakers. Members from Cardiology, Physiology, Psychology, Veterinary Medicine, Nursing, Electrical Engineering and several other medical disciplines actively participated in the series. It was funded by the Office of Research, OSU.

*January - June 1994:* Hosted the two-quarter visit of Professor Valery Nevzorov, Department of Mathematics and Mechanics, St. Petersburg State University, St. Petersburg, Russia. In addition to our collaborative research, he presented a special topic course on Record Statistics in Spring, 1994.

*November 1995:* Cohosted Sir David Cox, Nuffield College, Oxford, UK, during his 4-day visit to Ohio State campus.

*September 1996:* Hosted Professor N. Balakrishnan, Dept. of Math. and Stat., McMaster University, Ontario, Canada.

*August 1998, 1999:* Hosted Prof. Glenn Hofmann, Universidad de Concepcion, Chile.

*June 1999- June 2001:* Served as the Research Advisor of Mr. Z. A. Abo-Eleneen, a faculty member from Zagazig University, Egypt, who is on an Egyptian Government scholarship to obtain research training.

*Calendar Year 2003:* Organized weekly seminar talks in the Statistics Department.

*Autumn 2007:* Weekly seminar series organizer.

*2008:* Multiple visits by Dr. Eiichiro Kazumori, University of Tokyo; Autumn 2008: 1 week visit by Prof. Dr. Erhard Cramer, RWTH, Aachen, Germany.

Sep. 2008-Aug. 2009: Mr. Xiaobin Tang, Visiting Scholar with a scholarship from the Chinese Government (for PhD studies); Southwest University of Finance and Economics (SWUFE), Chengdu, China.

2009: Summer: Dr. Qinying He, Asst. Prof., SWUFE, Chengdu, China; October: Dr. Ke Wang, Asst. Prof., Fudan U, China.  
 2012-13: Konul Bayramoglu, Middle Eastern University, Ankara Turkey. Sept2012-Feb 2013 (Turkish Govt Scholarship (TUBITEK) for PhD research) on the topic of Interval Censored Data.  
 2016: Prof. Jafar Ahmadi, Ferdowsi University of Mashhad, Iran Feb-Aug 2016.

## Department/University Administration & Service

*Departmental(Statistics)*: Member, Executive Committee (1996-98; 2000-2; 2003-7, 2009-11); Graduate (Admissions, Curriculum, Biostatistics Admissions); Examination Committees (MS, MAS, Ph.D., Minor; Chair as well on many occasions); Chair, Promotions and Tenure Review (2008-2010) Committee; Colloquium; High School Day, Powers Teaching Award, Transfer of Credits, Industrial Relations, Departmental Handbook, Student Relations, Junior Faculty Mentor Committees; Strategic Planning Committee (2005); Committee on Combined Biostatistics Program (2006); Curriculum (Chair, 2007-08).

*College of Mathematical & Physical Sciences*: Curriculum (92-95), Science and Engineering Library (97-01), Promotion and Tenure (98- 99), Hiring and Retention Task Force (04-05), Curriculum (07-08).

*College of Public Health*: Member, APT Committee, 2010-2013; Executive Committee, 2010-2015; Combined PhD program in Biostatistics (Coordinator; 2010-11); Pattern of Administration Committee, 2011, 2013; Undergraduate Education (2010-11); Interdisciplinary Program Committee (2011-2); Hiring Committees.

*Other*: Faculty Advisor, India Student Association, 1985-89, Evaluated Dissertation Abstracts for Council of Graduate Students for University-wide Research Award, 2/96.

## Research

### Books

*A First Course in Order Statistics* - B. C. Arnold, N. Balakrishnan, and H. N. Nagaraja. John Wiley & Sons, 1992, 279 pp. (SIAM Reprint 2008).

*Statistical Theory and Applications - Papers in Honor of Herbert A. David* - H. N. Nagaraja, P. K. Sen and D. F. Morrison, Editors. Springer-Verlag, 1996, 334 pp.

*Records* - B. C. Arnold, N. Balakrishnan, and H. N. Nagaraja. John Wiley & Sons, 1998, 312 pp.

*Order Statistics, 3<sup>rd</sup> Edition* – H. A. David and H. N. Nagaraja, John Wiley & Sons, 2003, 458 pp.

*Advances in Ranking and Selection, Multiple Comparisons, and Reliability* - N. Balakrishnan, N. Kannan, and H. N. Nagaraja (Eds.), Birkhauser. (2005), 412 pp.

*Measuring Agreement: Models, Methods, and Applications* – Pankaj K. Choudhary, H. N. Nagaraja. John Wiley & Sons, 2017, 336 pp.

### Software

Yang, H., Nagaraja, H.N., Choudhary, P. and Nagaraja, C.H. R Package “BangdiwalaChart.” Published on Github on 12/5/2018. <https://github.com/hongbo-yang/BangdiwalaChart/>

## Theoretical/Methodological Papers

**Note:** Unless otherwise noted, all papers are single authored and when there are multiple authors the citation below lists all authors in the sequence in which they appear in the publication.

1. Characterization of some distributions by conditional moments. Journal of the Indian Statistical Association, Vol. 13, 1975, 57-61.
2. On a characterization based on record values. Australian Journal of Statistics, Vol. 19 (1), 1977, 70-73.
3. A note on testing for the existence of an outlier. Journal of the Indian Statistical Association, Vol. 15, 1977, 131-139.

4. On the expected values of record values. Australian Journal of Statistics, Vol. 20(2), 1978, 176-182.
5. A note on almost sure convergence of sums of order statistics. Journal of the Indian Statistical Association, Vol. 16, 1978, 131-133.
6. Some relations between order statistics generated by different methods. Communications in Statistics, Simulation and Computation, Vol. B8 (4), 1979, 369-377.
7. Some distributional problems connected with order statistics. Communications in Statistics, Theory and Methods, Vol. A9 (9), 1980, 935-942.
8. Some finite sample results for the selection differential. Annals of the Institute of Statistical Mathematics, Vol. 33 (3), Part A, 1981, 437-448.
9. Record values and extreme value distributions. Journal of Applied Probability, Vol. 19, 1982, 233-239.
10. Some asymptotic results for the induced selection differential. Journal of Applied Probability, Vol. 19, 1982, 253-261.
11. A note on linear functions of ordered correlated normal random variables. Biometrika, Vol. 69 (1), 1982, 284-285.
12. Some nondegenerate limit laws for the selection differential, Annals of Statistics, Vol. 10 (4), 1982, 1306-1310.
13. Nagaraja, H. N. and Mohan, N. R. On the independence of system life distribution and cause of failure Scandinavian Actuarial Journal, 1982, 188-198.
14. On the non-Markovian structure of discrete order statistics. Journal of Statistical Planning and Inference, Vol. 7, 1982, 29-33.
15. Two characterizations of a bivariate geometric distribution. Journal of the Indian Statistical Association, Vol. 21, 1983, 27-30.
16. Asymptotic linear prediction of extreme order statistics. Annals of the Institute of Statistical Mathematics, Vol. 36, Part A, 1984, 289-299.
17. Some nondegenerate limit laws for sample selection differential and selection differential, Sankhyā, Series A Vol. 46, 1984, 355-369.
18. A note on conditional Markov property of discrete order statistics. Journal of Statistical Planning and Inference, Vol. 13, 1986, 37-43.
19. Comparison of estimators and predictors from two-parameter exponential distribution. Sankhyā, Series B, Vol. 48, Pt. 1, 1986, 10-18.
20. Structure of discrete order statistics. Journal of Statistical Planning and Inference, Vol. 13, 1986, 165-177.
21. On the asymptotic properties of Hogg's Q statistic. Calcutta Statistical Association Bulletin, Vol. 35, March-June, 1986, 77-84. (Correction, p. 127, 1988).
22. Nagaraja, H. N. and Srivastava, R. C. Some characterizations of geometric type distribution based on order statistics, Journal of Statistical Planning and Inference, Vol. 17, 1987, 181-191.
23. Selection Differentials, Encyclopedia of Statistical Sciences, Vol. 8, 1987, 334-338.
24. Record values and related statistics - A review. Communications in Statistics, Theory and Methods, Vol. A17(7) 1988, 2223-2238.
25. Some characterizations of continuous distributions based on regressions of adjacent order statistics and record values, Sankhyā, Series A, Vol. 50, 1988, 70-73.

26. Some characterizations of discrete distributions based on linear regressions of adjacent order statistics, Journal of Statistical Planning and Inference, Vol. 20, 1988, 65-75.
27. Nagaraja, H. N. and Chan, W. T. On the number of games played in a best of  $(2n-1)$  series , Naval Research Logistics , Vol. 36, 1989, 297-310.
28. Nagaraja, H. N., Sen, P., and Srivastava, R. C. Some characterizations of geometric tail distributions based on record values, Statistical Papers, Vol. 30, 1989, 147-155.
29. Two characterizations of the exponential laws. Sankhyā , Series A, Vol. 52, 1990, 387-390.
30. Some reliability properties of order statistics. Communications in Statistics, Theory and Methods, Vol. A19(1), 1990, 307-316.
31. Bunge, J. A. and Nagaraja, H. N. The distribution of certain record statistics from a random number of observations, Stochastic Processes and their Applications, Vol. 38, 1991, 167-183.
32. Arnold, B. C. and Nagaraja, H. N. Lorenz ordering of exponential order statistics, Statistics and Probability Letters, Vol. 11, 1991, 485-490.
33. Arnold, B. C. and Nagaraja, H. N. On some properties of bivariate weighted distributions, Communications in Statistics, Theory and Methods, Vol. 20(5&6), 1991, 1853-1860.
34. Order statistics from discrete distributions (With Discussion). Statistics, A Journal of Theoretical and Applied Statistics, Vol. 23, No. 2, 1992, 189-216.
35. Bunge, J. A. and Nagaraja, H. N. Exact distribution theory for some point process record models. Advances in Applied Probability, Vol. 24, 1992, 20-44.
36. Bunge, J. A. and Nagaraja, H. N. Dependence structure of Poisson paced records, Journal of Applied Probability, Vol. 29, 1992, 587-596.
37. Nagaraja, H. N. and David, H. A. Distribution of the maximum of concomitants of selected order statistics. Annals of Statistics, Vol. 22, 1994, 478-494.
38. Tukey's linear sensitivity and order statistics. Annals of the Institute of Statistical Mathematics, Vol. 46, No. 4, 1994, 757-768.
39. Record statistics from point process models. In *Extreme Value Theory And Applications, Vol.1*, Eds: J. Galambos, J. Lechner, E. Simiu, Kluwer Academic Publishers, 1994, 355-370.
40. Joshi, S. N. and Nagaraja, H. N. Joint distribution of maxima of concomitants of subsets of order statistics. Bernoulli, Vol.1, 1995, 245-255.
41. Raqab, M. Z. and Nagaraja, H. N. On some predictors of future order statistics. Metron, Vol.53, No. 1-2, 1995, 185-204.
42. Nagaraja, H. N. and Baggs, G. E. Order statistics of bivariate exponential random variables. In *Statistical Theory and Applications: Papers in Honor of Herbert A. David*. Eds: H. N. Nagaraja, P. K. Sen, and D. F. Morrison, Springer-Verlag, 1996, 129-142.
43. Prediction Problems. Chapter 9 in *The Exponential Distribution: Theory, Methods & Applications*. Eds: N. Balakrishnan and A. P. Basu, Gordon and Breach Publishers, 1995, 139-163.
44. Nagaraja, H. N. and Nevzorov, V.B. Correlations between functions of records can be negative. Statistics and Probability Letters, Vol. 29, 95-100, 1996.
45. Nagaraja, H. N., Sampath, S. and Binkley, P. F. Statistical modeling of heart period data. American Statistical Association 1995 Proceedings, Biometrics Section, 361-364. (Unrefereed)

46. Baggs, G. E. and Nagaraja, H. N. Reliability properties of order statistics from bivariate exponential distributions Stochastic Models, Vol. 12, #4, 1996, 611-631.
47. Nagaraja, H. N. and Nevzorov, V.B. On characterizations based on record values and order statistics. Journal of Statistical Planning and Inference, Vol. 63, 1997, 271-284.
48. David, H. A. and Nagaraja, H. N. Concomitants of order statistics. *Handbook of Statistics, Vol. 16, Order Statistics and Their Applications*. Eds: N. Balakrishnan and C. R. Rao, Elsevier, 1998, 487-513.
49. Hofmann, G. and Nagaraja, H. N. Random and Poisson paced record models in the  $F^{\alpha}$  set up. Journal of Applied Probability 2000, Vol. 32 (2), 374-389.
50. Nagaraja H. N. and Hofmann, G. Inter-record times in Poisson paced  $F^{\alpha}$  models. Chapter 26 in *Asymptotic Methods in Probability and Statistics with Applications*. Eds N. Balakrishnan, I. A. Ibragimov, and V. B. Nevzorov, Birkhauser, Boston, 2001, 363-374.
51. Hofmann, G. and Nagaraja, H.N. A Random Power Record Model. Statistics and Probability Letters, Vol. 56, 2002, 345-353. (top SPL paper downloaded during April-August 2002/Science Direct)
52. Abo-Eleneen, Z. and Nagaraja, H. N. Fisher information in an order statistic and its concomitant. Annals of the Institute of Statistical Mathematics, 2002, Vol. 54, No. 3, 667-680.
53. Nagaraja H. N. and Abo-Eleneen, Z. Fisher information in Farlie-Gumbel-Morgenstern Type Bivariate Exponential distribution. In *Uncertainty and Optimality* (IIT Karagpur, India, Golden Jubilee Celebration Volume) J. C. Misra (Ed.) World Scientific, November 2002, 319-330 (Invited paper).
54. Nagaraja H. N., Choudhary, P. K. and Matalas, N. Number of records in a bivariate sample with applications to Missouri river flood data. Methodology and Computing in Applied Probability, 2002, Vol. 4, 377-391.
55. Linder, R. S. and Nagaraja, H. N. Impact of censoring on sample variances in a bivariate normal model. Journal of Statistical Planning and Inference, 2003, Vol. 114, 145-160.
56. Hofmann, G. and Nagaraja, H. N. Fisher information in record data. Metrika, 2003, Vol. 57, No. 2, 177-193.
57. Nagaraja, H. N. and Abo-Eleneen, Z. Fisher information in order statistics. Pakistan Journal of Statistics, 2003, Vol. 19 (1), 161-173. (Invited paper).
58. Nagaraja, H. N. and Barlevy, G. Characterizations using record moments in a random record model and applications. Journal of Applied Probability, 2003, Vol. 40, 826-833.
59. Functions of concomitants of order statistics. Journal of the Indian Society for Probability and Statistics, December 2003, Vol. 7, 16-32.
60. Choudhary, P. K. and Nagaraja, H. N. Measuring agreement in method comparison studies -- A review. In *Advances in Ranking and Selection, Multiple Comparisons, and Reliability*. N. Balakrishnan, N. Kannan, and H. N. Nagaraja (Eds.), Birkhauser, Boston, 2005, 215-244.
61. Nagaraja, H. N. and Mohan, N. R. Asymptotic theory for the selection differential from a stratified random sample. In *Advances in Statistics- B. K. Kale Felicitation Volume*, Editors: B. C. Arnold, U. Gather, and S. M. Bendre, MacMillan Publishers India Ltd, New Delhi, 2008, pp. 120-133.
62. Nagaraja, H. N. and Baggs, G. E. (2003) On predicting the maximum component of a bivariate exponential variable. Journal of the Indian Statistical Association, Vol. 41, No. 2, 353-367.
63. David, H. A. and Nagaraja, H. N. Order Statistics. In *Encyclopedia of Statistical Sciences*, Second Edition, Vol.9, N. Balakrishnan, C. R. Read and B. Vidakovic (Eds.), (2006), Wiley, Hoboken, NJ, 5829-5838.
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8. Choudhary, P. and Nagaraja, H. N. Assessing Agreement Using Coverage Probability. Tech. Rep. 721, Stat. Dept., OSU, September 2003.
9. Sun, J., Nagaraja H. N. And Reynolds, N. Stochastic Models for Compliance Analysis Using Inter-Dosing Times. Tech. Rep. 751, Stat. Dept., OSU, March 2005.
10. Barlevy, Gadi and Nagaraja H. N. (2006). Identification of Search Models with Initial Condition Problems. Federal Reserve Bank of Chicago, Working Paper 2006-03 ([http://www.chicagofed.org/publications/workingpapers/wp2006\\_03.pdf](http://www.chicagofed.org/publications/workingpapers/wp2006_03.pdf))

### Papers Presented at Meetings of Learned Societies and Conferences (since 1986)

1. On the number of games played in a best of  $(2n-1)$  series. 200th meeting of the Institute of Mathematical Statistics, May 27-29, 1987, at VPI, Blacksburg.
2. Two characterizations of and a test for the exponential distribution. 208th meeting of the Institute of Mathematical Statistics, March 20-22, 1989, at Lexington, Kentucky.
3. The distribution of certain order statistics from a random number of observations. Presented by the co-author, J. Bunge at the 211th meeting of the Institute of Mathematical Statistics, August 16-19, 1989, at Sheffield, England.
4. Lorenz ordering of exponential order statistics. 215th meeting of the Institute of Mathematical Statistics, June 17-20, 1990, at Bozeman, Montana.
5. Some properties of Tukey's measure of information. IMS session during the Joint Statistical Meetings, August 18-22, 1991, at Atlanta, Georgia.
6. Record statistics from point process models. Conference on Extreme Value Theory and Applications, Gaithersburg, MD, May 2-7, 1993.
7. Joint distribution of the maxima of concomitants of selected order statistics. 230th Meeting of the Institute of Mathematical Statistics (Joint with Biometric Society ENAR, American Statistical Association), April 10-13, 1994, Cleveland, Ohio.
8. Reliability properties of generalized hyperexponential distributions with applications. Presented (by coauthor Geraldine E. Baggs) at a Biometric Society session during the Joint meetings of IMS, Biometric Society ENAR and ASA, April 10-13, 1994, Cleveland, Ohio.

9. Characterizations based on the dependence structures of record values and order statistics. Presented (by coauthor V. B. Nevzorov) at a Bernoulli Society session during the Joint Meeting of IMS and the 3rd World Congress of the Bernoulli Society, Chapel Hill, June 20-25, 1994.
10. Statistical modeling of heart period data. ASA session during the Joint Statistical Meetings, August 13-17, 1995, at Orlando, Florida.
11. Symmetric functions of concomitants of selected order statistics. Conference in Honor of Herbert A. David's 70th Birthday, November 17-18, 1995, at Ames, Iowa.
12. Some Generalized Random Record Models. Presented by coauthor G. Hofmann at the 24th Conference on Stochastic Processes and their Applications, Vina Del Mar, Chile, June 1997.
13. Two families of record models. Presented by coauthor G. Hofmann at the Joint Statistical Meetings, Anaheim, August 1997.
14. Inter-record times in Poisson paced  $F$ -alpha-models. International Conference on Asymptotic Methods in Probability and Mathematical Statistics, St.Petersburg, Russia, June 24-28, 1998 (Invited).
15. Simulation of concomitants of order statistics. 3rd St. Petersburg Workshop on Simulation, St. Petersburg, Russia, June 28 - July 3, 1998 (Invited).
16. Impact of censoring on sample variances in a bivariate normal model. Presented by coauthor R. S. Linder at the Joint Statistical Meetings, Dallas, August 1998.
17. Concomitants of order statistics - A Review. IISA 1998 International Conference, MacMaster University, Hamilton, Canada, October 10-11, 1998 (Invited).
18. Concomitants of order statistics. Fifth International Conference of the Forum for Interdisciplinary Mathematics, University of Mysore, India, December 28-30, 1998 (Invited).
19. Measures of heart rate variability and related statistical issues. Northern Kentucky University Symposium for Integrative Sciences and Mathematics, April 14-15, 1999 (Invited).
20. Impact of censoring on sample variances in a bivariate normal model. Presented at the International Conference on Recent Advances in Probability and Statistics, Athens, Greece, June 3-5, 1999 (Invited).
21. Impact of Censoring on the Sample Regression Coefficient in a Bivariate Normal Model. Presented by coauthor R. S. Linder at the 1999 Joint Statistical Meetings, Baltimore, August 1999.
22. Fisher Information in an order statistic and its concomitant. Presented by coauthor Z. A. AboEleneen at the 2000 Joint Statistical Meetings, Indianapolis, August 2000.
23. Concomitants of Order Statistics - Recent Developments. International Conference on Mathematical Statistics - STAT'2000, Poland: Szklarska Poreba, August 21-25, 2000 (Invited).
24. Elements of extreme value theory. An invited panelist in the Panel Discussion Session "Managing Risk in Extreme Market Environments" in the Society of Actuaries Annual Meeting, Chicago, October 15-18, 2000.
25. Fisher information in order statistics and their concomitants. International Conference on Order Statistics and Extreme Values. Mysore, India, December 18-20, 2000 (Invited). (Two other papers that I co-authored were also presented).
26. Records in Bivariate Sequences. International Symposium on Advances in Statistical Methods and Applications, Madras, India, December 21-22, 2000 (Invited).
27. Fisher information in an order statistic and its concomitant. Biennial meeting of the International Indian Statistical Association and Joint Statistical Meeting Indian Statistical Associations, Delhi, India, December 30, 2000- Jan 2, 2001 (Invited).
28. Assessing agreement in method comparison studies. Presented by coauthor Pankaj Choudhary at the

2001 JSM, August 5-9, 2001 (Invited).

29. Number of records in a bivariate sample with application to Missouri river flood data. International Workshop on Applied Probability, Caracas, Venezuela, January 14-17, 2002 (Invited).

30. On selecting instruments closest to the gold standard. Biometric Society (ENAR) Spring 2002 Meetings, Arlington, VA. Presented by coauthor Pankaj Choudhary.

31. Fisher Information in univariate and bivariate incomplete samples. Fourth Biennial International Conference on Statistics, Probability and Related Areas, Northern Illinois University, DeKalb, IL, June 14-16, 2002 (Invited).

32. Statistical Modeling of the Differences Between Successive Heart Periods. 2002 Joint Statistical Meetings, New York, August 2002. Presented by co-author Sumithra Mandrekar.

33. Assessment of Agreement With A Gold Standard and Selection of the Closest Instrument. Conference on Ranking & Selection, Multiple Comparisons, Reliability, and Their Applications, December 28-30, 2002, Madras, India.

34. Characterizations Using Record Moments in a Random Record Model and Applications. Seventh Purdue International Symposium on Statistics, June 19-24, 2003 (Invited).

35. Number of records in a bivariate sample with application to Missouri river flood data. Joint Statistical Meetings, San Francisco, August 2003. Presented by co-author Pankaj K. Choudhary.

36. Estimating correlation in a longitudinal study with missing data. Joint Statistical Meetings, San Francisco, August 2003. Presented by co-author Yuxiao Tang.

37. Stochastic modeling of sleep duration data. Joint Statistical Meetings, San Francisco, August 2003. Presented by co-author Marilisa Gibellato.

38. On the reliability of a stress-strength system. International Symposium on Emerging Strategies for Improving Productivity, Quality and Reliability, Calcutta, December 12-14, 2003 (Invited).

39. Distribution of the sum of the top  $k$  order statistics from independent exponential variables. International Workshop on Applied Probability, Athens, Greece, March 22-25, 2004 (Invited).

40. Where is Waldo? A look at Barry's characterization expeditions. International Conference on Distribution Theory, Order Statistics and Inference, Santander, Spain, June 16-18, 2004 (Invited).

41. Distribution of the sum of the top order statistics from independent exponential random variables. Third International Conference on Probability and Statistics, McMaster U., Hamilton, Ontario, Canada, July 17, 2004 (Invited).

42. Stochastic Models for Compliance Analysis and Applications. Joint Statistical Meetings, Toronto, August 2004. Presented by co-author Junfeng Sun.

43. Stochastic Models for Compliance Analysis and Applications. International Conference on the Future of Statistical Theory, Practice, and Education. Hyderabad, India, December 29, 2004 – Jan. 1, 2005 (Invited).

44. Order statistics of concomitants of subsets of order statistics and applications. International Conference – “Ordered Statistical Data: Approximations, Bounds and Characterizations”, Izmir, Turkey, June 15-18, 2005 (Invited).

45. The Stochastic Modeling of the Sleep-Wakefulness Process with the Development of a Sleep Index for Clinical Applications. Joint Statistical Meetings, Minneapolis, August 2005. Presented by coauthor Marilisa Gibellato.

46. Stochastic Characterization of Compliance Indices. Joint Statistical Meetings, Minneapolis, August 2005. Presented by coauthor Junfeng Sun.

47. Stochastic Modeling of Sleep-Wake Process with Clinical Applications. 25<sup>th</sup> Annual Meeting of the Indian Society for Probability and Statistics, Bangalore, December 2005 (Invited).

48. Stochastic Models for Compliance Analysis Using Inter-Dosing Times, 2006 ENAR Biometric Society Spring Meetings. Presented by coauthor Junfeng Sun, University of Nebraska Medical Center, March 2006.
49. Characterizations in a Random Record Model with a Non-Identically Distributed Initial Record, International Workshop on Applied Probability, U. of Connecticut, May 2006 (Invited).
50. Parametric Inference from Window Censored Renewal Processes and Applications. Joint Statistical Meetings, Seattle, August 2006. Presented by coauthor Yanxing Zhao.
51. Stochastic Models for MRI Lesion Count Data from Patients with Relapsing Remitting Multiple Sclerosis. Joint Statistical Meetings, Seattle, August 2006. Presented by coauthor Xiaobai Li.
52. Estimation of Correlation Coefficient in Bivariate Normal Population Based on Concomitants of Order Statistics. Joint Statistical Meetings, Seattle, August 2006.
53. Order Statistics of Concomitants of Order Statistics and Applications. Joint Statistical Meetings, Seattle, August 2006. Presented by coauthor Ke Wang.
54. Correlation Estimation from Incomplete Bivariate Samples. International Biometric Society, ENAR Spring Meetings, Atlanta, March 2007. Presented by coauthor Qinying He.
55. Correlation Estimation from Incomplete Bivariate Samples. International Conference on Ordered Statistical Data and Inequalities: Theory and Applications, June 14-17, 2007; University of Jordan, Amman.
56. Distribution Theory of Order Statistics of Subsets of Concomitants and Applications. Joint Statistical Meetings, Salt Lake City, July 2007. Presented by coauthor Ke Wang.
57. Functions of Concomitants of Order Statistics. Hyderabad Symposium on Statistics and Probability, December 17-19, 2007; University of Hyderabad, India (Invited).
58. Order Statistics Of Selected Concomitants. Conference on Ordered Statistical Data and Its Applications, March 7-8, 2008, RWTH Aachen University, Germany (Invited).
59. Order Statistics Of Selected Concomitants of Order Statistics. International Workshop on Applied Probability, July 7-10, 2008, Université de Technologie de Compiègne, France (Invited).
60. Correlation Estimation in the Downton's Bivariate Exponential Distribution Using Incomplete Samples, June 22-26, 2009, Mathematical Methods in Reliability 2009, Moscow, Russia (Invited).
61. Concomitants of Order Statistics, Sixth St. Petersburg Workshop on Simulation, June 28- July 4, 2009, St. Petersburg, Russia (Invited).
62. Correlation Estimation in the Downton's Bivariate Exponential Distribution Using Incomplete Samples, Joint Statistical Meetings, August 2009. Presented by coauthor Qinying He.
63. Stochastic Modeling of Stream Flow Measurements in the Mississippi and Missouri Rivers, Joint Statistical Meetings, August 2009. Presented by coauthor Jonathan Joseph.
64. Simulation of Concomitants of Order Statistics, Joint Statistical Meetings, Vishakhapatnam, India, January 2010. (Invited).
65. Asymptotic Finite-Time Ruin Probabilities for a Class of Path-Dependent Heavy-Tailed Claim Amounts Using Poisson Spacings. International Workshop on Applied Probability, July 2010 (presented by coauthor R. Biard; invited).
66. Correlation estimation using incomplete bivariate samples. Ninth Conference on Ordered Statistical Data and Its Applications, Zagazig University, Egypt (Plenary Talk; June 2010).
67. Power Analyses for Negative Binomial Models with Application to Multiple Sclerosis Clinical Trials — (presented by coauthor Mallikarjuna Rettiganti, contributed); Joint Statistical Meetings, Vancouver, BC, August 2010.

68. Fisher Information in Censored Samples from the Downton Bivariate Exponential Distribution H. N. Nagaraja, Ohio State University, 2011 IISA Conference at NC State University, Raleigh, NC, April 21-24, 2011 (Invited).
69. Inferences for the Poisson-Inverse Gaussian Distribution with Application to Multiple Sclerosis Clinical Trials, Joint Statistical Meetings, Miami Beach, FL, August 2011 (presented by co-author M. Rettiganti).
70. Fisher Information in Censored Samples from the Block-Basu Bivariate Exponential Distribution and Its Applications Joint Statistical Meetings, Miami Beach, FL, August 2011 (presented by coauthor Lira Pi).
71. Efficient simulation of order statistics and their concomitants. International Conference on Advances in Probability and Statistics, Hong Kong, December 28-31, 2011 (Invited).
72. Some applications of ordered data models. Tenth International Conference on Ordered Statistical Data and Their Applications, Murcia, Spain, May 23-25, 2012 (Invited).
73. Fisher Information, Order Statistics, and Folded Distributions. International Workshop on New Advances in Statistics: Theory and Applications, University of Manitoba, Winnipeg, Canada, July, 2012 (Invited).
74. Parametric Models for MRI Count Data in Multiple Sclerosis Clinical Trials: A Robustness Study, Joint Statistical Meetings, San Diego, CA, Aug 2012 (presented by co-author M. Rettiganti).
75. Connections Between Fisher Information in Censored Samples from Folded and Unfolded Distributions Joint Statistical Meetings, San Diego, CA, Aug 2012 (presented by co-author Lira Pi).
76. A Discriminant Function for Renal Inflammatory Activity Associated with Lupus Nephritis. Joint Statistical Meetings, San Diego, CA, Aug 2012 (poster presented by co-author Alice Hinton).
77. Properties of the Vacancy Statistic in the Discrete Circle Covering Problem. Statistics, Science, and Society: New Challenges and Opportunities, International Indian Statistical Association Conference, January 2-5, 2013, Chennai, India (Invited)
78. Negative Binomial Models for Two Period Cross-Over Trials Involving Overdispersed Count Data. Joint Statistical Meetings, Montreal, Aug 2013 (presented by co-author Mallikarjuna Rettiganti, University of Arkansas for Medical Sciences)
79. Estimation of Misclassification Rates in Discriminant Analysis with Normal Populations, Joint Statistical Meetings, Montreal, Aug 2013 (presented by co-author Alice Hinton, The Ohio State University).
80. Simultaneous Inference of Method Agreement and Rater Reliability Through General Clustered Repeated-Measures Data, Joint Statistical Meetings, Montreal, Aug 2013 (presented by co-author Shasha Bai, The Ohio State University).
81. On the Poisson-Type Arrival of Order Statistics. Joint Statistical Meetings, Montreal, Aug 2013 (presented by co-author Karthik Bharath, Ohio State University).
82. Spacings Around an Order Statistic. Eleventh International Conference on Ordered Statistical Data and Their Applications, Bedlewo, Poland, June 5, 2014 (Invited).
83. Spacings Around an Order Statistic. IISA Conference on Research Innovations in Statistics for Health, Education, Technology, and Society, July 11, 2014, Riverside California (Invited).
84. Confidence Intervals for the Odds Ratio Estimated from Count Models — Joint Statistical Meetings, Boston, Aug 2014 (Presented by coauthor, Christopher Sroka, Battelle).
85. Comparison of Parametric and Empirical Estimators of Misclassification Rates in Discriminant Analysis Joint Statistical Meetings, Boston, Aug 2014 (Presented by coauthor, Alice Hinton, The Ohio State University).
86. Power Analyses Based on Negative Binomial Models for Two Period Cross-Over Trials Involving Overdispersed Count Data Joint Statistical Meetings, Boston, Aug 2014 (Presented by coauthor, M. Rettiganti, Univ of Arkansas for Medical Sciences).
87. A Statistical Journey into the Fields of Medicine and Public Health. Statistics and Society in the New

Information Age: Challenges and Opportunities- An International Conference. Colombo, Sri Lanka, December 29, 2014 (Invited).

88. Statistical Methods for Public Health and Medicine. 103rd Indian Science Congress, Mathematical Sciences (including Statistics) Section, Mysore, January 6, 2016 (Invited).

89. Odds ratio from Logistic, Geometric, Poisson, and Negative Binomial Models. Ordered Data and Applications to Reliability and Survival Analysis. McMaster University, Hamilton, Canada, August 8, 2016 (Invited).

90. Statistical Methods for Public Health and Medicine. International Indian Statistical Association Meeting, Corvallis, Oregon, August 21, 2016 (Invited).

91. Functions of Spacings of Discrete Uniform Order Statistics and Applications. Indian Society for Probability and Statistics Annual Conference, Aligarh, India, December 18, 2016 (Invited).

92. Statistical Methods for Public Health and Medicine. Regional Statistical Conference, International Statistical Institute, Bali, Indonesia, March 23, 2017 (Invited).

93. Tobacco Product Transition Patterns in Rural and Urban Cohorts (Poster Presentation). Fall 2017 TCORS Grantee Meeting, NIH campus, Bethesda, October 23, 2017.

93. Agreement Measurement in Arthroscopic Measurements of Articular Cartilage Defects in the Knee, International Indian Statistical Association Meeting, Hyderabad, India, December 28, 2017 (Invited).

94. Large-Sample Properties of Jackknife Estimators of the Variance of a Sample Quantile. Thirteenth International Conference on Ordered Statistical Data, May 22-25, 2018.

95. A New Distribution-Free Method for Constructing Confidence Intervals for Quantiles. Joint Statistical Meetings, Vancouver, July 31, 2018 (presented by co-author C. H. Nagaraja)

96. Measuring Agreement in Method Comparison Studies, Plenary Talk. International Conference on Emerging Innovation in Statistics & Operations Research (EISOR-2018), MD University Rohtak, India, Dec 28, 2018.

97. Joint and Conditional Distributions of Unordered and Ordered Data, Plenary Talk. Recent Advances in Probability and Statistics (RAPS2019), Istanbul, Turkey, June 24-25, 2019.

98. Distributions of Order Statistics and Their Applications to the Study of System Reliability. Plenary Talk, International Workshop, Hong Kong, December 2019.

99. Large Sample Properties of Jackknife Estimators of the Variance of a Sample Quantile. Prof. Arnold 80<sup>th</sup> Birthday Celebration Conference (Virtual), May 7, 2021.

100. Order Statistics and Their Applications to the Study of System Reliability, Keynote address. 7th International Conference on Advances in Statistics (ICAS) October 15-17, 2021; Istanbul, Turkey (virtual).

101. Managing Concurrency in Projects under Stochastic Environments: Understanding Vaccine Development for Pandemics (Murthy, Nagaraja, Berenji). Decision Sciences Institute 52<sup>nd</sup> Annual Conference (virtual), Nov 17-20, 2021. Presented by Berenji; “Best Problem-Driven Analytical Research Paper” award winner.

102. Managing Concurrency in Projects under Stochastic Environments: Understanding Vaccine Development for Pandemics (Murthy, Nagaraja, Berenji), Invited Talk. 2<sup>nd</sup> International E-conference on Mathematical and Statistical Sciences (ICOMSS 23) Selsuk University, Turkey, June 5-7, 2023 (virtual).

103. Odds ratios from logistic, geometric, Poisson, and negative binomial regression models, Keynote address. 9th International Conference on Advances in Statistics (ICAS) October 20-22, 2023; Istanbul, Turkey (virtual).

### **Colloquium Talks (Since 1986) - By Topic**

1. On the number of games played in a best of  $(2n-1)$  series.

Ohio State University, Statistics

Dept., January 26, 1988

- Indian Statistical Institute, Bangalore Centre, June 23, 1988  
 University of California, Riverside, October 10, 1989  
 The University of Akron, Akron, Ohio, November 11, 1994.
2. The distributions of certain record statistics from a random number of observations.  
 University of California, Santa Barbara, March 6, 1990  
 Iowa State University, June 27, 1990.
  3. Some properties of Tukey's measure of information.  
 University of California, Riverside, June 3, 1991.
  4. Distribution theory for some point process record models.  
 Indian Statistical Institute, Bangalore Centre, June 23, 1991.
  5. Tukey's measure of information and order statistics.  
 McMaster University, Hamilton, Canada, November 26, 1991.
  6. Distribution of the maximum of concomitants of selected order statistics.  
 Ohio State University, Statistics Department, May 12, 1992.
  7. Measures of heart rate variability and related statistical issues.  
 Ohio State University, Statistics Department, October 1, 1992.  
 University of Concepcion, Chile, Statistics Dept., March 23, 2000.  
 Catholic University, Santiago, Chile, March 30, 2000.  
 Technical U. of Catalunya, Barcelona, Spain, June 14, 2004.  
 Mangalore University, Mangalore, India, December 24, 2004.  
 Biophysics (Ohio State U.) seminar, February 9, 2005.
  8. Distribution of functions of concomitants of selected order statistics.  
 Indian Statistical Institute, Bangalore Centre, June 1997.  
 Northern Illinois University, DeKalb, October 31, 1997.
  9. Concomitants of Order Statistics.  
 Ohio State University, Statistics Department, October 27, 1998.  
 Bangalore University, Statistics Department, India, December 31, 1998.  
 University of Texas, El Paso, November 4, 1999.  
 University of Texas, San Antonio, November 5, 1999.  
 Hebrew University of Jerusalem, March 16, 2009.
  10. Statistics in Action - Two stories from Medicine.  
 University of Concepcion, Chile, Statistics Dept., Apr. 5, 2000.
  11. Fisher information in order statistics and their concomitants.  
 Wright State University, Dayton, Math & Stat Dept., May 11, 2001.
  12. Number of records in a bivariate sample with application to Missouri river flood data.  
 Assiut University, Assiut, Egypt, December 8, 2001.  
 Alexandria University/Arab Academy of Sciences, December 11, 2001.
  13. Fisher Information in incomplete univariate and bivariate samples.  
 Ohio State University, January 29, 2002  
 University of Connecticut, Storrs, April 12, 2002.  
 Mangalore University, India, December, 2002.  
 Southern Methodist University, April 25, 2003.  
 University of Pune, Pune, December 11, 2003.
  14. Number of records in univariate and bivariate samples with applications.  
 University of Texas at Dallas, April 24, 2003.
  15. Stochastic Modeling of the Sleep-Wake Process with Clinical Applications  
 Medical College of Wisconsin, March 28, 2006.  
 IBM Thomas J. Watson Research Center, Yorktown Heights, New York, July 19, 2006.

University at Buffalo, April 17, 2008.  
 CWRU/CCF/The Ohio State University Joint Biostatistics Symposium, May 15, 2008.  
 Cochin University of Science and Technology, December 17, 2008.

16. Functions of concomitants of order statistics.  
 McMaster University, Hamilton, Ontario, Canada, April 13, 2007.
17. Correlation estimation using incomplete bivariate samples.  
 Southern Methodist University, Dallas, March 5, 2010.
18. Power Analyses for Negative Binomial Models with Application to Multiple Sclerosis Clinical Trials.  
 University of Texas at El Paso, March 3, 2010.  
 University of Texas at Dallas, March 4, 2010.  
 Manipal University, India, December 24, 2010.
19. Some Models for Ordered Data and Their Applications to Business and Economics.  
 Fudan University, Shanghai, China, November 2, 2010.  
 Shanghai University of Finance and Economics, November 3, 2010.  
 Southwest University of Finance and Economics, Chengdu, China, November 10, 2010.  
 Wright State University, Dayton, Ohio, June 3, 2011 (Muzumdar Lecture).  
 Iowa State University, Ames, Iowa, March 19, 2012 (HADavid Lecture).  
 Purdue University, W. Lafayette, September 7, 2012.  
 Western Illinois University, Macomb, November 7, 2014  
 University of International Business and Economics, Beijing, China, October 27, 2016
20. Properties of the Vacancy Statistic in the Discrete Circle Covering Problem.  
 Manipal University, Dept of Mathematics, May 25, 2013.
21. Public Health and Hydraulic Fracturing for Shale Gas in the USA.  
 Manipal University, International Workshop on Environment and Occupational Health, Dec 16, 2013.
22. A Statistical Journey into the Fields of Medicine and Public Health.  
 Yenepoya University, Mangalore, India, January 7, 2015.  
 College of Public Health, The Ohio State University, April 30, 2015.
23. Odds ratio from Logistic, Geometric, Poisson, and Negative Binomial Models.  
 University of Cincinnati, September 9, 2016.
24. Spacings Around an Order Statistic and Their Applications.  
 Chinese University of Hong Kong, November 1, 2016.
25. Statistical Methods for Medicine and Public Health.  
 University of South Alabama, Mobile, October 18, 2017, Mishra Memorial Lecture.  
 GSK Pharmaceuticals, Bengaluru, India (Biostatistics group), January 10, 2018.
26. Some Applications of Ordered Data Models.  
 University of South Alabama, Dept. of Mathematics and Statistics, Mobile, October 19, 2017.
27. Tobacco Product Transition Patterns in Rural and Urban Cohorts.  
 Tobacco Control Seminar (OSU CERTS), Columbus, November 13, 2017.
28. Measuring Agreement in Method Comparison Studies.  
 School of Statistics, Univ of International Business and Economics, Beijing, July 12, 2018.
29. Assessing Agreement.  
 Department of Statistics, University of Mysore, Manasagangotri, India, January 14, 2019.
30. Biostatistics- Backbone of Biomedical Research. (Zoom Talk)  
 Adichunchanagiri University, B. G. Nagara, India, Sep 29, 2020.  
 Mangalore University, Department of Statistics, June 30, 2022
31. World Statistics Day (WSD), A Celebration. (Short Talk)  
 Mangalore University, Department of Statistics, Oct 20, 2020 (Zoom Talk)
32. A Statistical Journey from Mathematical to Medical Statistics, NMIMS School of Mathematics, Applied Statistics & Analytics, Mumbai, India, October 15, 2022.

### **Grant Support (\*Current)**

Internal: University Small Research Grant by the Graduate School, OSU, 1981.  
 Interdisciplinary Research Seminar Series Program by Office of Research, OSU, 1992 -94.  
 University Honors Program Competition, 1997-99.  
 Small Research Opportunities Program, summer 2008.

CCTS, Dept of Internal Medicine, MOU, 2011-12 (PI).  
 OSU Office of International Affairs, India Public Health Course Development, 2011-2013 (PI)  
 Dept. of Internal Medicine, MOU, 2011-22 (PI 2011-15)  
 Mangurian Foundation Fund (PI D Scharre, OSU Neurology, Diagnosing Dementia with Lewy Bodies and Parkinson's Disease Dementia; 08/01/2011-07/31/2015)  
 BrainTest Inc Fund (PI D Scharre, OSU Neurology 09/01/2015-08/31/2017)  
 \*Dept. of Neurology (PI D Scharre, 09/01/2017-08/31/2024)

External: American Heart Association, Ohio Affiliate, 1993-95 (PI).  
 National Institutes of Health, National Center for Research Resources  
 (Annual support: 25% 1993- 96; 40% 1996-2001; 60% 2002-05; 35% 2006-08)  
 National Institutes of Health, National Heart Lung and Blood Institute  
 (2 grants, Co-I, Annual salary support: 10%, 1995- 99)  
 National Institutes of Health (Co-I; Annual support: 10%, 1998-2002);  
 National Institute on Disability and Rehabilitation Research (Co-I; Annual support: 5%, 1998-2000);  
 National Science Foundation (REU Site Grant; Co-PI, 2001);  
 National Institutes of Health (NINR) (Co-I; Annual support 5% 2000-04);  
 National Institutes of Health (NIDDK; PO1 DK55546, Program Project, PI Hebert, MD  
 2001-2006 Genetic and Clinical Risk Factors for Human SLE Nephritis)  
 (Co-I; Annual support 20% 2001-06)  
 National Institutes of Health (NINDS) (Biostatistician; Annual support 5% 2002-5)  
 US Department of Education (PI Izzo; Statistician, Annual Support 5% 2007-2008)  
 National Institutes of Health (NIDDK) (Co-I; PI Rovin; Annual support 8% 2008-11)  
 National Institutes of Health (CTSA grant) (25% 2008-09; 20% 2009 Oct)  
 National Institutes of Health (NIDDK R21 DK077331) (Co-I; PI Rovin; Protein phenotyping of SLE  
 nephritis flare cycle; Annual support 3% 2008-10)  
 US Department of Education (PI Izzo; Statistician, Annual Support 4%, 2009-2013)  
 National Institute of Environmental Health Sciences (NIH)-Nationwide Children's subcontract (PI; 5%  
 2009-2011; Vascular toxicities of environmental tobacco particulates in children)  
 National Institutes of Health (NIDDK R21DK084330) (co-PI; PI Miller, Mindfulness-based approach  
 to the treatment of obesity and diabetes. 5%; 07/20/2009 - 06/30/2012).  
 National Institute of Dental and Craniofacial Health (R01 DE022579). (co-PI, PI P. Kumar, Tobacco  
 smoking and perturbations in the subgingival ecosystem, Acad Yr support 5%; 4/13/2012-1/30/2017.  
 National Institutes of Health (NIDDK R34DK093907) ) (co-PI; PI Miller, Evaluation of a  
 lifestyle intervention for employees with prediabetes. 5%; 07/01/2012 - 06/30/2015).  
 National Institute of Health (NIDDK U01DK085673 (PI B Rovin, Forecasters of future and  
 progressive CDK in patients with microvascular glomerul; 04/30/2013 – 04/30/2015  
 NIH/FDA P50 Tobacco Centers of Regulatory Science (TCORS): P50-CA-180908-01 OSU Center of  
 Excellence in Regulatory Tobacco Science (OSU-CERTS) (PI P Shields and ME Wewers; Sept 2013-  
 Aug 2019; Role: Director, Biostatistics and Data Resources Core, and Project 3 Biostatistician)  
 NIH/National Inst. of Arthritis and Muscular and Skin Diseases: 1R21AR070509-01A1 (PI C-Y Yu,  
 Nationwide Children's Research Institute) MCH Complement Variants in Disease Susceptibility of  
 Idiopathic Inflammatory Myopathies; 4/15/2017-3/31/2019 (OSU subcontract PI)  
 \*NIH/National Institute for Diabetes & Digestive & Kidney Diseases R01DK112930 (PI C. Miller)  
 Impact of augmented care at the worksite for diabetes prevention 09/15/2017 - 06/30/2024;  
 \*NIH/ National Institute of Arthritis, Musculoskeletal and Skin Diseases R01AR073311 (PI C-Y Yu,  
 Nationwide Children's Research Institute) Complement in Human Lupus: Deficiencies, Profiles and  
 Complications, July 2018-June 2023.  
 \*NIH/National Institute of Dental and Craniofacial Research R01DE027857 (PI P Kumar) E-cigarettes and  
 perturbations in the subgingival ecosystem 08/16/2018-05/31/2024  
 NIH/National Institute of Dental and Craniofacial Research 1R03DE027492-01A1(PI Dabdoub)  
 Uncovering the functional potential of the developing peri-implant microbiome 08/16/2018-07/31/2020

## Professional Service

### Editorial/Refereeing/Reviewing

#### Books and Monographs

Editorial Advisory Board Member, *Encyclopedia of Statistical Sciences, Revised Edition*.

Principal co-editor: *Statistical Theory and Applications - Papers in Honor of Herbert A. David*, Springer-Verlag, 1996, 334 pp.

Editorial Advisory Board Member: Book series *Statistical Distributions and Models with Applications*, Gordon & Breach Publishers, 1998-.

Regularly review manuscripts/book proposals for publishers. Have reviewed for Springer-Verlag, Gordon & Breach, McGraw Hill, MacMillan & Co, Duxbury, and Wadsworth & Brooks/Cole.

#### Journals

Associate Editor, *Communications in Statistics, Theory and Methods*, January 2002 – 2012.

Associate Editor, *Journal of Statistical Planning & Inference* Jan. 2004- Dec 2011.

Member, Editorial Board, *Journal of the Indian Society for Probability and Statistics*, 2003 – 2008.

Editorial Board Member, Research Design and Statistics Panel, *Annals of Pharmacotherapy*, 2007-2015.

Co-Editor, Special Issue on Ordered Data, *Communications in Statistics, Theory and Methods*, 2009.

Refereeing (selected journals):

Advances in Applied Probability, Annals of Applied Probability, Annals of the Institute of Statistical Mathematics, Annals of Statistics, American Statistician, Arab Journal of Mathematical Sciences, Australian Journal of Statistics, Canadian Journal of Statistics, Communications in Statistics (series A and series B), Computational Statistics and Data Analysis, Computers and Mathematics with Applications, Extremes, IEEE Transactions on Information Theory, Indian Journal of Pure and Applied Mathematics, Institute of Industrial Engineering Transactions, Journal of the American Statistical Association, Journal of Applied Probability, Journal of Applied Statistical Science, Journal of Climate, Journal of Computers & Mathematics, Journal of Indian Society for Probability and Statistics, Journal of the Indian Statistical Association, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Journal of Quantitative Finance, Journal of the Royal Statistical Society (Ser. B), Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Journal of Statistical Research, Management Science, Mathematical Methods of Statistics, Methodology and Computing in Applied Probability, Metrika, Naval Research Logistics Journal, Neurology, Pakistan Journal of Statistics, Proceedings of American Mathematical Society, Psychological Review, Psychophysiology, Statistical Methodology, Statistica Sinica, Statistical Papers, Statistics, Statistics and Probability Letters, Sankhya, Stochastic Models, Technometrics, Test, Theoretical Biology and Medical Modelling.

Regular reviewer of articles for *Zentralblatt für Mathematik* (Publisher: Springer-Verlag) 1984-2021.

#### Book Reviews

1. The Inverse Gaussian Distribution: A Case Study in Exponential Families. SIAM Review, Vol. 38, No. 2, p.350, June 1996.
2. The Exponential Distribution: Theory, Methods and Applications, SIAM Review, Vol. 40, No. 1, 167-168, March 1998.
3. CRC handbook of tables for the use of order statistics in estimation. Zbl.870.62002.
4. An Introduction to Statistical Modeling of Extreme Values, 2002, Zbl. 0980.62043
5. Measuring Interobserver Agreement, Technometrics, vol. 46, no. 3, pp. 367-368; 2004.
6. Statistics of extremes. Theory and Applications, 2005, [Zbl 1070.62036](#)
7. Extreme Value and Related Models with Applications in Engineering and Science, 2005, [Zbl 1072.62045](#).
8. Inference in Hidden Markov Models, by Olivier Cappé, Eric Moulines, and Tobias Rydén; *Technometrics*, Vol. 48, No. 4, November 2006, pp.574-575.
9. Scan Statistics: Methods and Applications by Joseph Glaz; Vladimir Pozdnyakov; Sylvan Wallenstein. *Technometrics* 53(1), p. 103.

10. Clinical Pharmacist's Guide to Biostatistics and Literature Evaluation, by editor Robert DiCenzo; Annals of Pharmacotherapy, Vol. 45, December 2011, 1596.

Promotion & Tenure Cases: Polish Academy of Sciences; Cornell University; Indian Statistical Institute; Florida International University (3 cases); Southwest Missouri State University; University of Texas at El Paso; University of Calgary, Alberta, Canada; University of Florida; Cornell University College of Medicine; University of Texas at San Antonio; University at Buffalo (2 cases); UCLA; Pennsylvania State University; Duke University; Portland State University; Kuwait University; Southern Methodist University; University of Texas at Dallas, Griffith University, Queensland, Australia (Autumn 2011); Drexel University (Autumn 2011); University of the Sciences, Philadelphia (Autumn 2011, Autumn 2012); University of Jordan, Amman (Winter 2012), East Carolina University, NC (Autumn 2012), Qassim University (Autumn 2012), University of Kentucky (Spring 2013). Southern Methodist University (Au 2014); Cleveland Clinic Lerner College of Medicine (Sp 2015); Indiana University School of Public Health (Su 2015; Su 2018), University of the West Indies (July 2017), Univ of Texas at Dallas (September 2017), New York University School of Medicine (Feb 2019), University of Manitoba, Winnipeg (3 cases), Syracuse University (Aug 2022), University of Gujrat, Pakistan (Sep 2022).

Research Grant Applications: National Science Foundation; USArmy Research Office; International Science Foundation; Chilean National Science Foundation (FONDECYT); Research Grant Commission, Hong Kong; National Institutes of Health; National Science and Engineering Research Council (Canada); The Netherlands Organisation for Health Research and Development (2015), Kuwait University (2019, 2021).

External Refereeing of PhD (M Phil.) Dissertations: MS University, Baroda, India; Alexandria University, Egypt; University of Delhi, India; Gulbarga University, India; McMaster University, Canada; Chinese University of Hong Kong (M Phil.); Mangalore University, India (2008); Mansoura University, Egypt (2011); Mysore University, India (Jan 2012); University of Manitoba, Winnipeg, Canada (August 2014); Kalinga Institute of Industrial Technology, Bhubhaneswar, India (October 2014); Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, India (April, 2015); Indian Institute of Technology, Patna (July 2016); Mansoura University, Egypt (November 2016), Aachen University, Germany (October 2018), Alexandria University, Egypt (November 2018), National College of Business Administration & Economics, Lahore, Pakistan (January 2019), Indian Institute of Technology, Patna (April 2019).

Advisory Boards/Committees: Member, External Advisory Board, Border Biomedical Research Center, UT El Paso, TX; 2009-; Evaluator, Third World Academy of Science, 2005; Senior Research Prize; Faiza Al-Kharafi Prize, Kuwait University Senior Research Award (2005); Chair, Young Researcher Award Committee, Int. Indian Statistical Association (2008); External Review Board Member, Department of Biostatistics, University at Buffalo, NY, (June 2012). Reviewer, 2018-23 Strategic Plan, MRC Biostatistics Unit, University of Cambridge, England (August, 2017)

## **Conference Related Organization**

### Conferences

1. Ohio Statistical Conference, Columbus, Ohio, November 16, 1995 (Co-organizer)
2. Conference in Honor of Herbert A. David's 70th Birthday, Ames, November 17-18, 1995 (Co-organizer).
3. Silver Anniversary Conference, Department of Statistics, OSU, and Sixteenth Ohio Statistical Conference, Columbus, Ohio, October, 1999 (Chair, Organizing Committee).
4. Order Statistics and Extreme Values - Theory and Applications, Mysore, India, December 2000 (Co-Chair, Organizing Committee).
5. Conference on Ranking & Selection, Multiple Comparisons, Reliability, and Their Applications, Madras, India, December 28-30, 2002 (Member, International Organizing Committee).
6. International Conference on the Future of Statistical Theory, Practice and Education, Hyderabad, India, December 29, 2004 – January 1, 2005 (Member, International Organizing Committee).
7. Joint Statistical Meeting and International Conference on Statistics, Probability and Related Areas, January 2 - 5, 2007, Cochin, India (Member, International Organizing Committee).
8. Ordered Statistical Data and Inequalities: Theory and Applications, June 14-17, 2007; University of Jordan, Amman, Co-Chair, Organizing Committee.
9. Conference on Ordered Statistical Data and Its Applications, March 7-9, 2008; RWTH Aachen University, Germany; Member, Program Committee.
10. Member, International Organizing Committee, International Conference on Frontiers of Interface between Statistics and Sciences, Dec 30 2009 – Jan 2 2010, Hyderabad, India.
11. Co-Chair, International Organizing Committee, Ninth International Conference on Ordered Statistical Data And Its Applications, Zagazig, Egypt, July 11-13, 2010.

12. Member, Advisory Committee, 2011 International Indian Statistical Association Conference at NCState University, April 21-24, 2011.
13. Member, International Advisory Committee, 31<sup>st</sup> Annual Conference of the Indian Society for Probability and Statistics, Cochin, India, December 19-22, 2011 (organized 1 session).
14. Member, International Organizing Committee, International Conference on Advances in Probability and Statistics - Theory and Applications, Hong Kong, December 28-31, 2011.
15. Member, International Program Committee, Tenth International Conference on Ordered Data, Murcia, Spain, May 2012.
16. Co-Chair, Scientific Program Committee, 2013 International Indian Statistical Association Conference at Chennai, India, January 2-5, 2013; Member, International Organizing Committee.
17. Member, Scientific Committee, 11th Intl Conference on Ordered Data, Bedlewo, Poland, June 2-6, 2014.
18. Member, Scientific Committee, 13th Intl Conference on Ordered Data, Cadiz, Spain, May 22-25, 2018.

#### Invited Sessions

1. Two sessions on order statistics and record values in the Fifth International Conference of the Forum for Interdisciplinary Mathematics, University of Mysore, India, December 28-30, 1998, Organizer.
2. Order Statistics and Record Values, Joint Statistical Meetings of Indian Statistical Associations, December 2000, New Delhi, India, Co-organizer.
3. Measuring Agreement, Joint Statistical Meetings, Atlanta, August 2001.
4. Order statistics and record values, International Workshop on Applied Probability, Caracas, Venezuela, January 2002.
5. Order statistics and record values, Fourth Biennial International Conference on Statistics, Probability and Related Areas, Northern Illinois University, DeKalb, IL, June 14-16, 2002.
6. Order statistics and record values, International Workshop on Applied Probability, Athens, Greece, March 22-25, 2004.
7. Order statistics, Fifth Biennial International Conference on Statistics, Probability and Related Areas, Athens, Georgia, May 14-16, 2004.
8. 2 sessions (Order Statistics and Biostatistical Methods) in the International Conference on the Future of Statistical Theory, Practice and Education, Hyderabad, India, December 29, 2004 – January 1, 2005.
9. Biostatistics, Joint Statistical Meeting and International Conference on Statistics, Probability and Related Areas, January 2 - 5, 2007, Cochin, India.
10. Models and Methods for Ordered Data, Int. Workshop on Applied Probability, Compiègne, France, June 2008.
11. Ordered Data, 75<sup>th</sup> Anniversary Celebration Conference, Stat Dept, Iowa State University, June 2-5, 2009.
12. Statistical Methods for Medical Research, Statistics and Society in the New Information Age: Challenges and Opportunities, Colombo, Sri Lanka, Dec 28-30, 2014.
13. Biostatistics, Ordered data and their applications in reliability and survival analysis, Hamilton, Ontario, Canada, Aug 7-10, 2016.

#### **Consultation (industry, academia, government)**

Serve several on-campus and a few off-campus clients (academic, government, business). Notable off-campus consulting clients are NHTSA, US Dept. of Transportation, Columbus EPA, Nestle, 3M, Fair Isaac Co., State of Ohio, Abbott Nutrition, and Qardio. During 1993-2009, as a biostatistician in General Clinical Research Center, College of Medicine, I provided assistance on statistical issues related to the design and analysis of clinical trials for numerous medical researchers. Major project involvement in Pulmonary and Critical Care (Longitudinal study of lung functions of HIV+ patients), Nephrology (A study of Lupus), Neurology (gene therapy for muscular dystrophy, sleep research, Parkinson Disease study, Multiple Sclerosis study, Alzheimer Patient Study, autism study, Multiple Sclerosis studies), Cardiology, Anesthesiology, Endocrinology, Asthma study, Otolaryngology, Physical Medicine (Spinal cord injury study), Exercise Physiology (Daily caloric expenditure measurements), and Obstetrics and Gynecology, and Sports Medicine.

#### **Offices Held and Other Service to Professional Societies**

President Elect, International Indian Statistical Association, 2009-2010; President 2010-2011; Past President, 2011-12. Member, Committee on Nominations (Pres. and VP), American Statistical Association. 2010, 2011. Secretary, Association of General Clinical Research Center Statisticians, 2000-2002. Secretary, International Indian Statistical Association, 1999-2001, (created and maintained website during 1999-2009: <http://www.stat.ohio-state.edu/~hnn/IISA.html>). Member, Committee on Heart Period Variability, Society for Psychophysiology Research, 1995-97. Columbus Chapter Representative, American Statistical Association, 1992-95.