

CV of Amar Nath Gill



Professor Emeritus IIIT Una (H.P.)

Previous Employment:

**Professor & Deputy Coordinator, UGC (SAP)
DSA-III (up to June 4, 2019)
Department of Statistics,
Panjab University, Chandigarh -160014**

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Date of Birth: 4. 6.1954.

Educational Qualifications

Class	Year	Univ./Board	Division	Distinction
Sr. Secondary	1971	H.P. Board	First	
B.Sc.	1975	H.P. Univ.	First	Got National Merit Scholarship
M.Sc. (statistics)	1984	P.U. Chandigarh	First	Medalist
M.Phil (statistics)	1985	P.U. Chandigarh	First	Topper
Ph.D. (Statistics)	1990	P.U. Chandigarh		

RESEARCH AREAS: (i) **MULTIPLE COMPARISON PROCEDURES**
(ii) **STATISTICAL INFERENCE**
(iii) **APPLIED STATISTICS**

TEACHING AND RESEARCH EXPERIENCE

A. Research Experience: Thirty-four years' research and teaching experience.

RESEARCH PUBLICATIONS

- (1) 'Selection procedures for scale parameters using two sample statistics' jointly with G.P.Mehta. *Sankhya* (1989), 51, Ser. B, 149-157.
- (2) 'Selection procedures for hazard rates based on two sample statistics' jointly with G.P.Mehta. *Indian Jl. of Pure and Applied Math.* (1989), 20, 773-781.
- (3) 'Selection procedures for scale parameters' jointly with G.P.Mehta. *Jl. of Indian statist. Assoc.* (1991), 29, 1-12.

- (4) 'Selection procedures for scale parameters using two sample U-statistics' jointly with G.P.Mehta. *Australian Jl. of Statist* (1991), 33, 347-362.
- (5) 'Some Characterizations of exponential distribution jointly with Harshinder Singh. *The Jl. of Indian Association on Productivity, Quality and Reliability (IAPQR)* (1992), 17(2), 51-54.
- (6) 'A Class of selection procedures for scale parameters' jointly with Narinder Kumar and G.P.Mehta. *Jl. of Indian Statist. Assoc.* (1992),30,75-88.
- (7) 'Selection procedures for location parameters based on two sample U-statistics' jointly with Narinder Kumar and G.P.Mehta. *Kolkata Statist. Assoc. Bulletin* (1992),42,201-219.
- (8) 'A selection procedure for selecting good exponential populations' jointly with S.K.Sharma. *Biometrical Jl.* (1993), 35, 361-369.
- (9) 'Selecting good populations: The scale parameter case' jointly with S.K.Sharma and Neeraj Misra. *South African Statistical Jl.* (1993),28,11-21.
- (10) 'Simultaneous confidence intervals for all ratios to the best: The exponential distributions' jointly with Narinder Kumar and Neeraj Misra. *IEEE Trans. Reliability* (1994), 43, 61-64.
- (11) 'Selecting populations better than the control: Scale parameter case' jointly with G.P.Mehta, *Statistics & Decisions* (1993),11,251-271.
- (12) 'A class of selection procedures for Weibull populations' jointly with G.P.Mehta. *IEEE Trans. Reliability* (1994),43,65-70.
- (13) 'A note on confidence intervals and probability of correct selection: scale parameter case' jointly with Suresh Kumar and Neeraj Misra. *Jl. of Indian statist. Association* (1993),31,115-123.
- (14) 'A distribution free test for homogeneity against ordered alternatives' jointly with Narinder Kumar and G.P.Mehta. *Comm. Statist. Theor. & Meth.* (1994), 23(4), 1247-1256.
- (15) 'A class of distribution-free tests for testing homogeneity of location against ordered alternatives' jointly with Narinder Kumar and Anil Kumar Dhawan. *South African Statistical Journal* (1994), 28, 55-65.
- (16) 'Selection procedures for scale parameters when the populations have a common known quantile' jointly with Narinder Kumar and G.P.Mehta. *Metron* (1994), LIII, 3-4, 171-196.

- (17) 'Testing homogeneity of scale parameters against ordered alternatives using Hodges-Lehman estimators' jointly with Anil Kumar Dhawan. *Statistics* (1996), 26, 1-12.
- (18) 'Ranking and subset selection procedures for populations with censored data: A review' jointly with Harshinder Singh. *Analysis of Survival Data. IMS-Lecture Notes-memograph Series* (1995),7,219-230.
- (19) 'Simultaneous one-sided confidence intervals for the ordered pair-wise differences of exponential location parameters'. *Comm. in Statist. Theor. & Meth.* (1997), 26(1),247-262.
- (20) 'Drug related involvement of specific sites in fixed eruptions: A statistical evaluation' jointly with V.K. Sharma and S. Dhar (PGIMER). *Journal of Dermatology (Jl. of Japanese Dermatological Association)* (1996), 23(8), 530-534.
- (21) 'Simultaneous confidence bounds for the ratios of scale parameters' jointly with Suresh Kumar Sharma and Neeraj Misra. *Statistics & Decisions* (1997), 15, 165-181.
- (22) 'A one-sided test for testing homogeneity of scale parameters against simple ordered alternative' jointly with Anil Kumar Dhawan. *Comm. Statist. Theor. & Methods* (1999), 28(10), 2417-2440.
- (23) 'A selection procedure for selecting least dispersive life distribution' jointly with Suresh Kumar Sharma. *Statistica*,(2000), anno LXn. 1, 87-96.
- (24) 'Selection procedures for selecting largest mean residual life distribution' jointly with H.J. Khamnei and Narinder Kumar. *Proceedings of the Fifth Iranian Statistics Conference*, August 22-24, (2000), 120-133.
- (25) 'Estimating the true probability of correct selection: two exponential distributions' jointly with Neeraj Mishra & S. K. Sharma. *American Jl. of Mathematical & Management Sciences* (2001), 21, 109-124.
- (26) 'Simultaneous multiple comparisons with the worst and best' jointly with Neeraj Mishra & S. K. Sharma. *American Jl. of Mathematical & Management Sciences* (2002), 22, 115-139.
- (27) 'A class of selection procedures based on sample quasi ranges' jointly with Parminder Singh and Satya N. Mishra. *American Jl. of Mathematical & Management Sciences* (2002), 22, 353-367.
- (28) 'Multiple Comparison of Ranked Location Parameters: Logistic Populations Case' jointly with Parminder Singh. *Jl. of Combinatorics, Information & System Sciences*, (2002), 27, 173-183.

- (29) 'Confidence intervals for the ratios of ranked scale parameters for the censored data' jointly with Parminder Singh. *American JI. of Mathematical & Management Sciences* (2003), 23, 323-345.
- (30) 'A selection procedure for good logistic populations' jointly with Parminder Singh. *Journal of the Korean Statistical Society* (2003), 32(3) 1-11.
- (31) 'A one sided test based on sample quasi-ranges' jointly with Parminder Singh. *Commun. Statist. Theory and Methods* (2004), 33(4), 835-849.
- (32) 'Some multiple comparisons using sample quasi ranges on censored data' jointly with Parminder Singh. *Test* (2004), 13, 313-334.
- (33) 'A multiple three-decision procedure: exponential case' jointly with Parminder Singh. *Panjab University Research Journal (Science)* (2004), 54, 27-36.
- (34) ' A Selection Procedure For Selecting Life Distribution with Least value of Measure Based on Reliability Function' Jointly with Parminder Singh. *Acta Ciencia Indica* (2004), XXX M No. I, 57 – 62.
- (35) ' Selection of good populations and related confidence intervals' jointly with Parminder Singh and S. N. Mishra. *American JI. of Mathematical and Management Sciences* (2005), 25, 121-148.
- (36) 'Simultaneous Confidence Intervals for the successive ratios of scale parameters' jointly with Parminder Singh. *Jl. of Statistics and Applications* (2007), 2, 33-49.
- (37) 'Simultaneous confidence bounds for all ratios to the best" Jointly with N. Kumar and G. P. Mehta. *Journal of Applied Statistical Science* (2009), 503-514.
- (38) 'Step-up tests for comparing several exponential populations with control: Location case' jointly with Parminder Singh. *America JI. of Mathematical and Management Sciences* (2009), 29, 189-199.
- (39) 'Distribution of ratio of extreme of isotonic estimators of Chi-square variables with applications' jointly with Parminder Singh and Narendra Kumar. *Jl. of Statistical Planning and Inference* (2009), 139, 3262-3269.
- (40) 'A test of homogeneity of several variances against tree ordered alternative' jointly with Parminder Singh and Narendra Kumar. *Statistics and Probability Letters* (2009), 79(22), 2315-2320.
- (41) 'A note on comparing several variances with a control variance' jointly with Parminder Singh and Anju Goyal. *Statistics and Probability Letters*, (2010), 80, 1995-2010.

- (42) 'Subset Selection of Treatments ϵ -better than the best control' jointly with Anju Goyal and Parminder Singh. International Journal of Mathematics, Game Theory and Algebra (2010), 20, 1-18.
- (43) "Non-parametric multiple comparisons with more than one control for scale parameters using two-sample Statistics" jointly with Vishal and Parminder Singh. JI.of Combinatorics, Information and System Sciences (2011), 36 (1), 299-323, a special E.J. Dudewicz Festschrift issue.
- (44) 'Multiple comparisons with more than one control for exponential location parameters under heteroscedasticity, jointly with Vishal Maurya and Anju Goyal. Communication in Statistics-Simulation and Computation (2011), 40(5), 621-644.
- (45) 'A note on testing homogeneity of several exponential location parameters' jointly with Parminder Singh and Narendra Kumar. Communication in Statistics - Theory and Methods 2012, 41, 474-484.
- (46) ' Statistical analysis of air quality indices: A study' jointly with R. Nimesh, S. Arora and K.K. Mahajan. International journal of Ecological Economics and Statistics (IJEES) 2012 (4), 27, 89-103.
- (47) 'Simultaneous selection of treatments better and worse than the best and worst controls' jointly with Anju Goyal and Parminder Singh. Statistical Methodology, 2012, 9, 573-588.
- (48) Multiple Comparisons with a control for exponential parameters under heteroscedasticity, jointly with Vishal Mourya and Parminder Singh. Journal of Applied Statistics, 2013, 40(8), 1817-1830.
- (49) 'A multiple three-decision procedure for comparing several treatments with a control under heteroscedasticity' jointly with Anju Goyal and Vishal Maurya. Comm. Statist. - Simulation and Computation, 2013, 42, 1763-1784.
- (50) 'On a Multiple three decision problem for comparing several treatments with the best control' Jointly with Anju Goyal and Parminder Singh. Comm. Statist-Theory and Methods, 2013, 42, 3432-3452.
- (51) 'Predicting air quality using ARIMA, ARFIMA and H W Smoothing' jointly with R. Nimesh, S. Arora and K.K. Mahajan. Model Assisted Statistics and Applications Journal, 2014, 9(2),137-149.
- (52) 'Simultaneous confidence intervals for comparing several exponential location parameters with control' jointly with Parminder Singh and Anju Goyal. *Metron*, 2015, 73(1), 99-118.
- (53) 'Three-decision procedures with the best control under heteroscedasticity' jointly with Aarti Goyal and Vishal Maurya. American JI of Mathematical and Management Sciences, 2016, 36, 34-48.

- (54) 'A new two-stage multiple comparison procedure for comparing several exponential populations with a control under Heteroscedasticity' Jointly with Vishal Maurya and Aarti Goyal. Computational Statistics and Data Analysis, 2017, 108, 1-11.
- (55) 'Simultaneous inference for ordered exponential location parameters under unbalanced data and heteroscedasticity of scale parameters' jointly with Anju Goyal and Vishal Maurya. Comm. Statist.-Simulation and Computation, 2017, 46, 3129-3139.

B. RESEARCH SUPERVISION EXPERIENCE

Candidates Supervised for Ph. D.

- (1) One candidate (Narinder Kumar, Professor, Dept. of Statistics, P.U.) completed his Ph.D. degree under the joint supervision of Dr. G.P.Mehta and myself in Feb., 1994.
- (2) Second candidate (S.K.Sharma, Professor, Dept. of Statistics, P.U.) completed his Ph.D. degree under the joint supervision of myself and Dr. Neeraj Misra in Oct., 1995.
- (3) Third candidate (Parminder Singh, Professor Department of Mathematics, Guru Nanak Dev University, Amritsar) completed his Ph. D. Degree in Dec., 2002 under my supervision.
- (4) Fourth candidate (Anil Kumar Dhawan, Now in USA) completed his Ph. D. in Nov., 2003 under my supervision.
- (5) Fifth Candidate (Anju Goyal, Assistant Professor, Department of Statistics, Panjab University, Chandigarh) completed her Ph. D in Jan., 2012 under the joint supervision of myself and Parminder Singh (Professor, Department of Mathematics, GNDU, Amritsar).
- (6) Sixth Candidate (Vishal Maurya, Research Officer Department of Statistics and Information Managemant, RBI, Mumbai)) completed his Ph. D in June, 2012 under the joint supervision of myself and Parminder Singh (Associate Professor, Department of Mathematics, GNDU, Amritsar).
- (7) Seventh candidate (Ruby Nimesh) completed her Ph. D. in March, 2014 under the joint supervision of S. Arora, K.K.Mahajan and myself.
- (8) Eighth Candidate Narindra Kumar completed his Ph. D under joint supervision of myself and Parminder Singh in August, 2015.

- (9) Ninth candidate, Aarti Goyal, completed her Ph.D. under the joint supervision of myself and Vishal Maurya in March, 2018.

Candidates Supervised for M.Phil.

Supervised twelve M. Phil students towards their synopses.

Candidates Pursuing Ph. D.

Currently one student is pursuing Ph.D. research work under my supervision. His work is in the final stage

C. Editorial Work

Regularly referring research papers of the journals: (i) Communication in Statistics- Theory and Methods (ii) Computational Statistics and Data Analysis; (iii) American Journal of Mathematical and Management Sciences (iv) Statistical Methodology; (v) Communication in Statistics- Simulation and Computation; (vi) Statistics and Probability Letters.

D. Teaching Experience

- (i) Thirty-four years teaching experience. Taught following Statistics Courses in Ph.D. Course (Statistics), M. Phil (Statistics) , Post-graduate (M.Sc. and M. Tech) and under graduate [B.Sc.(honours) and B. Tech.] classes.

Courses Taught	Class
Foundations of Measurement	M. Tech (Instrumentation)
Trunking theory and Random Processes	M. Tech (Optical Wireless Communication Technology)
Operations Research	B.Tech.(Electronics , computer, IT) and M.Sc.
Quantitative Methods	MBA.
Theory of Statistics	M.A. (Economics).
Statistics for Economic Analysis	B.A. (Hons. Economics).
Bio-Statistics	M.Sc. (Biochemistry), B.Sc. (Hons, Microbiology, Bio-physics), B. Tech (Bio-informatics).
Statistical and System Analysis	M.Sc. (Environment).
Biostatistics	M. Sc.(System Biology and Bio-informatics).
Probability and Mathematical Statistics	M.Sc. (Mathematics).
Quantitative Techniques:	MBA (P.U. as guest faculty)
Probability, Sampling, Inference I & II, Stochastic Processes, Design of	M.Sc. & M. Phil (Statistics)

Experiments, Statistical Methods, Reliability, Queuing Theory, Order Statistics, Non-parametric Methods, Multivariate Analysis, Operations research, Statistical Quality Control), Probability and Measures, Ranking and Selection, Numerical Analysis.

E. Visiting Professor

Appointed as visiting Professor of Statistics by Central University of Punjab, Bathinda, for a period of One Year from Sept., 2017.

Administrative Experience: Chairperson Department of Statistics (April 2000 to March, 2003).

Also served as:

- (i) Advisory committee member of UGC DRS, Department of Statistics, Sardar Patel University, Gujarat (2011-2014).
- (ii) Member P G & UG Board of Studies in Statistics Panjab University.
- (iv) Member PG Board of studies, Department of Mathematics , P U.
- (v) Member, PG Board of Mathematics, GNDU, Amritsar (2012-2014).
- (vi) Member DRC of the Department of Statistics, Central University of Haryana, Mahendergard.
- (vii) Member UG board of studies in Statistics, MDU, Rohtak.

CONFERENCES/SEMINARS/ WORKSHOPS ATTENDED/ORGANIZED

1. Delivered two extension lectures on Non-parametric Statistical Inferences to the Faculty, Research scholars and P. G. students of the Department of Statistics, Central University of Haryana, Mahendergarh, on 23-8-2018.
2. Delivered two lectures on Cluster Analysis , Curve fitting and Over View of Statistics on May 31, 2018 and July 15, 2018 to the Participants in each of the two SPSS workshops organized by the Department of Statistics from May 25-31, 2018 and July 9-16, 2018

3. Delivered six lectures on Factor analysis, Cluster Analysis, Discriminant Analysis, Regression and Curve Fitting, to the participants of “Workshop on Statistical Techniques in Biological and Medical Sciences” from June 8-9, 2018. This workshop was organized by the Department of Biotechnology and Bioinformatics, Jaypee University of Information and Technology, Wagnaghat, Distt. Solan, H.P. from June 4-9, 2018.
4. Chaired a session on 4.4.2018 from 11.30 to 1.15 pm in the international Conference on “Responsible Research and Innovation in Science, Management and Education” organized by Research Promotion Cell, Panjab University, Chandigarh (India) and London School of Management Education (UK) from 4-6 April, 2018.
5. Delivered four lectures in the National Workshop on “Research Methodology using Statistical Tools, Techniques and Packages” organized by the Department of Agricultural Economics and Agricultural Statistics (Palli Siksha Bhavana) VISVA-BHARATI, SRINIKETAN, from March 16-22, 2018. Topics covered in the talks were Regression Analysis, Cluster analysis, Discriminant analysis, Curve fitting.
6. Attended and delivered an invited talk titled “Power based two-stage multiple comparison procedure for comparing several exponential populations with a control under heteroscedasticity” in the National Conference on Statistics and Optimization Techniques (NCSOT) In Conjunction with 2nd Convention of Indian Association for Reliability and Statistics (CIARS-2017) organized by the Department of Statistics, M D U Rohtak from Feb. 11-13, 2017.
7. Delivered lectures on Data Exploratory Techniques, Regression and Correlation to the participants of UGC sponsored Refresher Course titled “Research Methodology and Data Analysis” on 3.12.2016 organized by the Department of Geography, Panjab University, Chandigarh, from Nov. 24 to Dec. 14, 2016
8. Attended workshop on Reliability Theory and Survival Analysis organized by the Department of Statistics, Panjab University, Chandigarh, from Nov. 2-6, 2015.
9. Attended and delivered an invited talk titled “ Simultaneous Inferences for Exponential Location Parameters Under Unbalanced data and Heteroscedasticity of Scale Parameters” in National Conference on Recent Trends and Development in Statistics organized by the Department of Statistics, M D U Rohtak from Feb. 21-23, 2015.
10. Delivered an invited talk “ Stochastic and Mathematical modeling using data exploratory techniques” in the International Conference on Recent Trends in Mathematical Modeling and Statistical Analysis organized by Post Graduate Department of Mathematics J C D A V College Dasuya on 30-9-2014.
11. Delivered an invited talk in the two days UGC sponsored National Seminar on “Research in Statistical Science: Past, Present and Future” organized by the Department of Statistics, Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat) from Feb 21-22, 2014.

12. Organizing secretary of Twenty First International Conference of Forum for Interdisciplinary Mathematics on Interdisciplinary Mathematics, Statistics and Computational Techniques (IMSCT 2012 FIM XXI) from Dec 15- 17, 2012 at Department of Statistics, Panjab University Chandigarh.
13. Attended workshop on Reliability Theory and Survival Analysis from December 3-5, 2012 organized by Department of Mathematics and Statistics, IIT Kanpur.
14. Delivered an invited talk titled "Statistical modeling of real life data using SPSS" to the participants of national workshop on data analysis using SPSS, organized by the Department of Statistics and Operation Research, Kurukshetra University Kurukshetra, from Sept. 21-22, 2012.
15. Delivered Key note address titled " Data reduction techniques" in the UGC sponsored National Workshop on Sparse Statistics, optimization and Machine Learning on 31st March, 2012 at Lyallpur Khalsa College Jalandhar.
16. Attended 6th Chandigarh Science Congress, organized by Panjab University, Chandigarh, from 26-28 Feb., 2012.
17. Attended National Conference on Advances and Applications in Statistics, organized by Dept. of Statistics, PU Chandigarh from Feb 20-21, 2012.
18. Attended International Conference on Industrial and Applied Mathematics (ICIAM) at Vancouver, Canada from 18-22 July, 2011 Sponsored by NBHM through national level selection.
19. Delivered an Invited talk titled "Isotonic estimators based distribution with applications: Chi-Square variable case" in the "International Conference on New Trends in Life Testing, Bayesian Inference, Sampling Theory, Bio-statistics, Bio-informatics and Computer Applications" organized by Banaras Hindu University from 5-8 Jan., 2011.
20. Delivered Key note Address in the UGC sponsored National Seminar on Role of Statistics in Physiotherapy organized by Lyallpur Khalsa College Jalandhar from Nov. 25 - 27, 2010.
21. Delivered lecture on Discriminant analysis, factor analysis and survival analysis to the participants of workshop on Research and Data Analysis Using SPSS 18.0 organized by the Department of Statistics and SPSS (IBM) during Dec. 16-17, 2010.
22. Delivered an invited talk titled "Distribution of ratio of extreme of isotonic estimators of Chi-square variables with applications" in the Indian Science Congress held at Trivendrum (Kerala) from Jan. 3-8, 2009.
23. Attended and presented a paper titled "Non-parametric tests for testing simple ordered alternative for scale parameters using two sample statistics" in the XVIII International conference of the Forum for Interdisciplinary Mathematics (FIM) on

Interdisciplinary Mathematical and Statistical Techniques held from August 2-4, 2009 at Jaypee University of Information and Technology (JUIT), Himachal Pradesh.

24. Delivered an invited talk to the participants of Diamond Jubilee Workshop on Applied Statistical Techniques for Social Scientists organized by the Department of Statistics Panjab University on 20-3-2008.
25. Delivered an invited talk to the participants of Diamond Jubilee Symposium on Statistical Techniques: Recent Trends and Advances organized by the Department of Statistics, Panjab University, Chandigarh during March 18-19, 2008.
26. Attended and presented a paper titled 'Step-up tests for comparing several exponential populations with control : Location case' in the International Conference on Statistical Science, OR & IT held at TIRUPATI during Jan., 7-9, 2007.
27. Delivered an invited talk titled 'Simultaneous Confidence Intervals for the Successive Ratios of Scale Parameters' in the International Conference on Recent Advances in Statistics organized by the Department of Mathematics and Statistics, IIT, Kanpur during Jan., 04 – 06, 2005.
28. Delivered an invited talk titled 'Simultaneous multiple comparisons with the worst and best' in the XXII Annual Conference of Indian Society for Probability and Statistics, organized by the Department and Center for Advanced Studies in Statistics, Pune University, Pune during August 11-14, 2002.
29. Attended and presented a paper titled "A class of asymptotically distribution free tests for symmetry" in an International Conference on Statistical Inference & Reliability to honour Prof. J.V. Deshpande concurrently with the XXI Annual Conference of Indian Society for Probability and Statistics (ISPS) and Annual Conference of Indian Chapter of International Society of Bayesian Analysis, organized by the Department of Statistics, Panjab University, Chandigarh, during Dec. 21- 24, 2001.
30. Attended an International Conference on Recent Developments in Statistics and Probability and Their Applications organized by International Indian Statistical Association (IISA) and other Indian Statistical Organizations at India International Center, New Delhi, from Dec. 30, 2000 to Jan. 2, 2001 and presented a paper entitled "A class of selection procedures based on sample quasi ranges".
31. Attended International Conference on Order Statistics and Extreme Values Theory and Applications organized by the Dept. of Studies in Statistics, University of Mysore, from Dec. 18-20, 2000 and presented a paper entitled "Simultaneous selection of Extreme populations based on sample quasi ranges".
32. Attended National Conference on Statistical Inferences and Reliability organized by the Dept. of Statistics, P.U., Chandigarh from Nov. 15-17, 2000 and presented a paper entitled " A class of selection procedures for selecting good populations" jointly with Parminder Singh.

33. Attended & presented a research paper in National Conference on Applied Statistics and Operations Research organized by Department of Statistics, Nagpur University, Nagpur from Nov. 05-6,1998.
34. Attended International Conference on Combinatorics, Statistics, Pattern Recognition and Related Areas hosted jointly by the Departments of Mathematics, Statistics and Computer science, University of Mysore, Mysore from Dec. 28 -30,1998 and presented a paper entitled "A multiple three-decision procedure: exponential case."
35. Attended International Conference on recent advances in Statistics and Probability organized jointly by ISI (Kolkata) and Bernoulli Society for mathematical statistics and probability from Dec. 29, 1997 to Jan. 1, 1998. A research paper titled "Testing homogeneity against simple ordered alternative: scale parameter case" was presented.
36. Visited ISI, Delhi from March 18, 1996 to March 29, 1996 as a visiting fellow to collaborate research with Dr. S.C. Kochar.
37. Attended a Workshop on "Statistical Inference under Non-standard Conditions" and presented a research paper entitled "Simultaneous confidence bounds for the ratios of scale parameters" organized by the Department of Statistics, Panjab University, Chandigarh during January 9-12, 1996.
38. Attended 83rd Indian Science Congress held in Punjabi University Patiala during January 3-8, 1996 and a paper "A selection procedure for selecting least dispersive life distribution" was presented by my co-author Dr.S. K. Sharma.
39. Attended second International Triennial Calcutta symposium on Probability and Statistics from Dec. 30, 1994 to Jan. 2, 1995 held at Kolkata University, Kolkata and presented a paper "Simultaneous one- sided confidence intervals for the ordered pair-wise differences of exponential location parameters".
40. Attended 80th Indian Science Congress held at NIO, Goa from January 3, 1993 to January 8, 1993 and presented a paper titled " A class of subset selection procedures for Weibull populations".
41. Attended and presented a paper "Some characterizations of exponential distribution in the XIIth Annual Conference of Indian Society for Probability and Statistics (ISPS) organized by the Department of Mathematics and Statistics, Cochin University of Science and Technology, Cochin from December 9-12, 1991.
42. Attended and presented a research paper titled "Selection procedures for scale parameters" in the annual ISPS conference held at IIT Bombay from December, 27-30, 1990.

AWARDS/ PRIZES

1. Conferred JACOB WOLFOWITZ prize for theoretical advances in Mathematical and Management Sciences for the year 2003 to my research paper titled “ Simultaneous Multiple Comparisons with the Worst and Best” jointly with Dr. Neeraj Misra (I.I.T., Kanpur) and Dr. S. K. Sharma (P.U., Chandigarh) by the American Journal of Mathematical and Management Sciences. The prize consists of monetary award and an engraved certificate. This work was a part of Ph.D. Thesis of Dr. S. K. Sharma under the joint supervision of myself and Dr. Neeraj Misra.
2. Awarded “SHIKSHA RATTAN PURASKAR” in July, 2007 by India International Friendship Society, New Delhi.
3. Conferred “ Best Citizens of India Award” in Oct., 2007 by International Publishing House, New Delhi in recognition to my:(i) teaching at school (rural and tribal areas of Himachal Pradesh), College and University levels; (ii) Research.

INVOLEMENT IN RESEARCH SCHEMES/THRUST AREAS OF THE DEPARTMENT

- (i) Prepared and presented the proposal of our Department for the sanction of FIST Program of the DST (Govt. of India) during my term as Chairperson. Consequently, our Department got this program for a period of five years from April, 2000 to March, 2005. Under this program Rs. 31.5 lacs were sanctioned for the improvement of infrastructure facilities (computer equipments, statistical packages and books). Out of these Grants the Department could install 24 latest Pentiums and Software (SPSS, MATHEMATICA, LINGO, DINGO, SHEHZAM and MINITAB) in the computer laboratory which were urgently needed by the faculty for research & teaching, and to impart training to the students of the Department and researchers of the sister Departments in computer related courses since prior to this program the Department had only 3 Pentium-2 Machines. The Department also purchased latest books worth Rs 9 lacs out of these grants.
- (ii) Actively involved in the UGC DSA Programme sanctioned to our Department. Published more than 45 research papers in international journals of repute in the UGC DSA identified thrust area “Multiple Comparison Procedures” of the Department.
- (iii) Deputy coordinator of UGC DSA - III programme sanctioned to our department.

REFRESHER/ORIENTATION COURSES ATTENDED

1. Attended UGC sponsored Orientation Course organized by the Academic Staff College, Panjab University, Chandigarh from June 30, 1993 to July 27, 1993.
2. Attended UGC sponsored Refresher Course, in statistics, organized by the Academic Staff College, Gujrat University, Ahmedabad w.e.f. January 10 to January 30, 1994.

EXTENSION LECTURES/ LECTURES AS RESOURCE PERSON

1. Invited as a resource person in the UGC sponsored refresher course organized by the Department of Statistics, Panjab University, Chandigarh from March 24, 1995 to April 20, 1995.
2. Invited as a resource person in the UGC sponsored refresher course organized jointly by the Departments of Mathematics and Statistics, Panjab University, Chandigarh from Oct. 18, 2001 to Nov. 7, 2001.
3. Invited as a resource person in the UGC sponsored refresher course organized jointly by the Departments of mathematics and Statistics, Panjab University, Chandigarh from Jan. 28, 2003 to Feb. 17, 2003.
4. Invited as a resource person and delivered three lectures to the participants of the UGC sponsored refresher course organized by the Department of mathematics, Himachal Pradesh University, Simla, from Oct. 04- 24, 2004.
5. Invited as a resource person and delivered two lectures to the participants of the UGC sponsored refresher course organized by the Department of mathematics, Guru Nanak Dev University, Amritsar, from May 04- 24, 2005.
6. Invited as a resource person in the UGC sponsored refresher course organized jointly by the Departments of mathematics and Statistics, Panjab University, Chandigarh in 2010.
7. Delivered 3 extension lectures to the Scientists of SASE (Snow and Avalanche Study Establishment) on Data Reduction, Classification, Clustering and Hypothesis testing on 9.7.2015.

PARTICIPATION IN INHOUSE TRAINING PROGRAMS:

Acted as a resource person to impart training to the professionals of sister departments and the researchers/Professionals of neighboring institutes

(like Semi-Conductors Ltd. (Mohali), Ranbaxy (Mohali), BEL (Panchkula), PGIMER (Chandigarh), SASE (Him Parishar, (Manali)), GMCH (Chandigarh)) on statistical methodology for the analyses and interpretations of data using software, during in-house training programs organized by our Department at various time points in the past.

RESOURCE GENERATION:

1. Got a project in June, 2017 from HMEL (Bathinda Refinery) as advisory consultant , to conduct need based cum socio-economic survey of seven villages in the periphery of Bathinda Refinery. This project completed in Sept., 2017 with the concurrence of CIIP Program of the Panjab University.

Amount Generated to the University: Rs. 165200.00 (including 18% GSDT

2. A Project as Advisory consultant of Socio Economic and need based Survey of 4 more villages in the periphery of HMEL (Bathinda Refinery) completed in Jan, 2018.

Amount Generated to the University: Rs. 177000.00 (including 18% GST).

3. A project as Advisory consultant in the Pilot survey of 9 villages in the periphery of HMEL (Bathinda Refinery), to identify the urgent need based welfare schemes to be undertaken by HMEL on priority basis, completed in August, 2018.

Amount Generated to the University: Rs. 57000 (including 18% GST)

4. . A Project as Advisory consultant of Socio Economic and need based Survey of 16 more villages in the periphery of HMEL (Bathinda Refinery) completed in Dec., 2018.

Final report of the project has been submitted to HMEL in March, 2019.

The committed amount by HMEL is Rs 350000.

(Amar Nath Gill)

Personal Information: Belong to Vill. Pandher, P.O. Thathwani, District Hamirpur (HP) 177501. Worked as a TGT in H.P. Education Department from 7.4.1977 to 19.7.1982 after completing Graduation from Govt. College Hamirpur (HP) for financial support in order to pursue higher studies. As TGT, I served in remote areas of Distt. Shimla (KUNGAL BALTI, NANKHRI BLOCK) and Distt. Kinnaur (High School Katgaon,

Bhawa). Joined M.Sc. Statistics Programme of Panjab University in July, 1982 and completed M.Sc. Statistics in 1984 (Medalist) and M.Phil Statistics in 1985 (Topper) and Ph. D. (1990) in Statistics.

(Amar Nath Gill)