




## Faculty Details proforma for DU Web-site

Title	<b>Prof.</b>	First Name	GURPRIT	Last Name	GROVER	Photograph																				
Designation	<b>Professor</b>																									
Address	Campus	Department of Statistics, Faculty of Mathematical Sciences, University of Delhi, Delhi -110007, India																								
	Residence	63, Sweet Homes Apartment, Sector 14, Rohini, Delhi-110085.																								
Phone No	Office	27666671/306																								
	Residence	9811077432																								
Mobile																										
Email	gurpritgrover@yahoo.com																									
Educational Qualifications																										
Degree	Institution				Year																					
Ph.D.	University of Delhi				1985																					
M.Phil.	University of Delhi				1982																					
PG	University of Delhi (Hindu College)				1980																					
UG	University of Delhi (Hindu College)				1978																					
Career Profile																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Organisation / Institution</th> <th style="width: 20%;">Designation</th> <th style="width: 20%;">Duration</th> <th style="width: 30%;">Role</th> </tr> </thead> <tbody> <tr> <td>University of Delhi</td> <td>Assistant Professor</td> <td>1983 - 1986</td> <td>Teaching</td> </tr> <tr> <td>University of Delhi</td> <td>Assistant Professor</td> <td>1986 -1997</td> <td>Teaching</td> </tr> <tr> <td>University of Delhi</td> <td>Associate Professor</td> <td>1997 – 2008</td> <td>Teaching and Research</td> </tr> <tr> <td>University of Delhi</td> <td>Professor</td> <td>2008 to date</td> <td>Teaching and Research</td> </tr> </tbody> </table>							Organisation / Institution	Designation	Duration	Role	University of Delhi	Assistant Professor	1983 - 1986	Teaching	University of Delhi	Assistant Professor	1986 -1997	Teaching	University of Delhi	Associate Professor	1997 – 2008	Teaching and Research	University of Delhi	Professor	2008 to date	Teaching and Research
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University of Delhi	Assistant Professor	1983 - 1986	Teaching																							
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University of Delhi	Professor	2008 to date	Teaching and Research																							
Administrative Assignments																										
As assigned by the Department.																										
Areas of Interest / Specialization																										
Biostatistics, Demography.																										
Subjects Taught																										
Biostatistics, Demography, Statistical Quality Control, Reliability.																										
Research Guidance																										
<ol style="list-style-type: none"> <li>1. <i>Supervision of Awarded Doctoral Thesis: Fourteen (one submitted)</i></li> <li>2. <i>Supervision of Doctoral Thesis, under progress: Four (under progress).</i></li> <li>3. <i>Supervision of Awarded M.Phil. Dissertation: Twenty (two under progress)</i></li> </ol>																										

**Books:**

1. Gurprit Grover and Nezhath Shakeri. 2009 (1<sup>st</sup> ed.). Estimation of Incidence and Survival Function of Doubly Censored Data: with application to HIV/AIDS. VDM Verlage, Germany, ISBN: 978-3-639-16724-5.
2. Neeta Makhija and Gurprit Grover. 2011 (1<sup>st</sup> ed). Statistical Estimation of Survival Time of Cardiac Patients: A Study under Various Conditions. LAP Lambert Academic Publishing, Germany, ISBN: 978-3-8465-5588-0.

**Research Paper published in Refereed/Peer Reviewed Journals :**

- Swain, P. K., Grover, G., Chakravorty, S., Goel, K., & Singh, V(2017). Estimation of Number of Involved Lymph Nodes in Breast Cancer Patients using Bayesian Regression Approach. *J. Stat. Appl. Pro. Lett. USA*; 4, No. 1, 17-25.
- Grover, G., Goel, K., & Seth, D.(2017). Application of Univariate Frailty Models in Modeling Survival Data with a Cured Fraction. *Journal of Applied Quantitative Methods, Italy*; Vol.11, Issue-4.
- Swain, P. K., Grover, G., & Goel, K. (2016). Mixture and Non-Mixture Cure fraction Models based on Generalized Gompertz Distribution under Bayesian approach. *Tatra Mountains Mathematical Publications, Slovakia*; Vol.66 , 121–135.
- Gupta, V. K., Grover, G., & Arora, M. (2016). Trend in BMI z-score among Private Schools' Students in Delhi using Multiple Imputation for Growth Curve Model. *Epidemiology, Biostatistics and Public Health, 13*(2).
- Grover, G., Gupta, V. K., & Kumar, P. (2016). Estimation of Sub-distribution Hazard ratio of HIV/AIDS Patients for Interval Censored Data with Loss to Follow up as a Competing Risk. *J. Commun. Dis, 48*(3), 22-28.
- Swain, P., & Grover, G. (2016). Accelerated Failure Time Shared Frailty Models: Application to HIV/AIDS Patients on Anti-Retroviral Therapy in Delhi, India. *Turkiye Klinikleri Journal of Biostatistics, 8*(1), 13-20.
- Swain, P., & Grover, G. (2016). Determination of Predictors Associated With HIV/AIDS Patients on ART Using Accelerated Failure Time Model for Interval Censored Survival Data. *American Journal of Biostatistics (USA)*. 6.1; ISSN: 1948-9897.
- Grover, G., Sabharwal, A. and Kaushik, S., (2015). Estimating Length of Stay and Duration of Illness for Psychiatric in patients using Multivariate Modelling. *American Journal of Mathematics and Statistics, 5*(6), pp.329-353.
- Sunil Kanti Mondal, Rabindra Nath Das, Sudip Kundu, Jinseog Kim , Gurprit Grover and Shamim Akhtar Ansari (2015), Mean Variance Relationships of Genome Size and GC Content, Annual Research & Review in Biology(USA), 7(4): 206-221. ISSN: 2347-565X.

- Gurprit Grover, Prafulla Kumar Swain, Vishal Deo and Manoj Kumar Varshney (2015), A joint modeling approach to assess the impact of CD4 cell count on the risk of loss to follow up in HIV/AIDS Patients on Antiretroviral Therapy, *International Journal of Statistics and Applications (USA)*, Vol- 5(3); 99-108, ISSN: 2168-5215.
- Gurprit Grover, Vajala Ravi and Prafulla Kumar Swain (2015) On the assessment of various factors effecting the improvement in CD4 count of aids patients undergoing antiretroviral therapy using generalized Poisson regression, *Journal of Applied Statistics (USA)*, 42(6), pp: 1291-1305, ISSN: 1360-0532.
- Gurprit Grover and Vinay Kumar Gupta (2014), Multiple imputation of censored survival data in the presence of missing covariates using restricted mean survival time, *Journal of Applied Statistics (USA)*, 42(4),pp: 817-827, ISSN: 1360-0532.
- Gurprit Grover, Alka Sabharwal, and Juhi Mittal (2014), Estimation of Survival Function and Probability of Onset of Diabetic Nephropathy using Path Analysis and Analysis of Covariance, *International Refereed Journal of Engineering and Science (IRJES) (India)*, 3(4), pp: 50-58. ISSN:2319- 183X
- Gurprit Grover, A.K. Gadpayle, M.K. Varshney and Vajala Ravi (2014) A Follow-Up Study on Survival Trend of AIDS Patients Reported at ART Center in Delhi & Variation According to Age, Sex, Stages & Mode of Transmissions, *Journal of Medical Education and Research (India)*, 16(2), pp: 76-88.
- Gurprit Grover, Divya Seth, Vajala Ravi and Prafulla Kumar Swain (2014) A Multistate Markov Model for the Progression of Liver Cirrhosis in the Presence of Various Prognostic Factors, *Chilean Journal of Statistics(Chile)*, 5(2),pp: 15-27. ISSN:0718-7920
- Gurprit Grover and Divya Seth (2014) Application of Frailty Models on Advance Liver Disease Using Gamma as Frailty Distribution, *Journal of Statistics Research Letters (USA)*, 3(1), pp: 42-50. ISSN: 2325-7059
- Gurprit Grover, Prafulla Kumar Swain and Vajala Ravi (2014). A Competing Risk Approach With Censoring to Estimate the Probability of Death of HIV/AIDS Patients on Antiretroviral Therapy in the Presence of Covariates, *Journal of Statistics Research Letters (USA)*, 3(1), pp: 7-16. ISSN: 2325-7059.
- Distributions to Estimate Duration of Diabetes, *International Journal of Statistics and Applications (USA)*, 4(1), pp: 46-57. ISSN: 2168-5215.
- Gurprit Grover and Vajala Ravi (2014). On the estimation of expected survival time of AIDS patients undergoing Antiretroviral therapy using censored generalized Poisson regression model, *Turkiye Klinikleri J Biostat (Turkey)*, 6(1): pp: 24-32. ISSN: 1308-7894
- Gurprit Grover and Barnali Deka (2013). Modeling the Risk of Renal Impairment using Current Status Chronic Kidney Disease Data: A Simulation based Analysis, *Indian journal of Applied Research (India)*, 3(12), 12, pp 538-541 . ISSN: 2249-555X
- Gurprit Grover and Barnali Deka (2013). Spline-based Hazards Regression Model for Current Status Data: An Application to Simulated Data on Renal Impairment, *Indian journal of Applied Research(India)*, 3(12), pp 534-537. ISSN: 2249-555X

- Gurprit Grover, V Sreenivas, Sudeep Khanna, Divya Seth (2013). Multi state markov model: an application to liver cirrhosis. *Statistics in Transition-new series,(Poland)*; 14(3), pp: 429-442. ISSN 1234-7655
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- Gurprit Grover, Alka Sabharwal, and Juhi Mittal (2013). An Application of Gamma Generalized Linear Model for Estimation of Survival Function of Diabetic Nephropathy Patients, *International Journal of Statistics in Medical Research (Canada)*, vol-2, pp: 209-219. ISSN: 1929-6029/13
- Gurprit Grover, V.Sreenivas, Sudeep Khanna and Divya Seth (2013). Estimation of Survival of Liver Cirrhosis Patients, in the Presence of Prognostic Factors Using Accelerated Failure Time Model as an Alternative to Proportional Hazard Model, *International Journal of Statistics and Applications (USA)*, 3(4), pp: 113-122. ISSN: 2168-5215
- Gurprit Grover, Ravi Vajala and Manoj Kumar Varshney (2013). On the estimation of Average HIV population using various Bayesian techniques, *Applied Mathematics (USA)*, 3(3), pp: 98-106. ISSN: 2163-1425
- Gurprit Grover, Rabindranath Das, Prafulla Kumar Swain and Barnali Deka, (2013). On the Estimation of Survival of HIV/AIDS Patients on Antiretroviral Therapy Using NPMLE Method: An Application to Interval Censored Data, *American Journal of Mathematics and Statistics (USA)*, 3(4); pp: 213-219. ISSN: 2162-8475
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- Gurprit Grover, Alka Sabharwal, and Juhi Mittal (2013). A Bayesian Approach for Estimating Onset Time of Nephropathy for Type 2 Diabetic Patients Under Various Health Conditions. *International Journal of Statistics and Probability(Canada)*, 2(2), pp: 89-101. ISSN: 1927-7040
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- Gurprit Grover, A.K.Gadpayle, Alka Sabharwal (2012). Identifying patients with diabetic nephropathy based on serum creatinine in the presence of covariates in type-2 diabetes: A retrospective study. *Biomed Res- India*, 23 (4), pp. 615-624( ISSN 0970-938X).
- Gurprit Grover and T. Banerjee, T. Pensi and D. Banerjee (2011) Estimation of hazard of death

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- Suddhendu Biswas, Gurprit Grover, Manoj Kumar Varshney (2011). A method of construction: A multiple increment- decrement life table of HIV population. *International Journal of Medical and Biological Frontiers*, Vol. 17, Issue 3, pp 187-200 (ISSN 1081-3829).
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- Gurprit Grover and Neeta Makhija (2010). On the estimation of survival and death probabilities under myocardial infarctions in the presence of competing risks based on an illness-death model. *Journal of Communicable Diseases*, Vol. 42, pp. 1-17, ISSN 0019-5138.
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- Gurprit Grover, A.K.Gadpayle and Neeta Makhija (2010). On the estimation of survival time of cardio-vascular disease patients using parametric and semi-parametric methods. *Electronic Journal of Applied Statistical Analysis (EJASA)*, vol. 3 Issue 1, pp. 1-17, ISSN 2070-5948.
- Gurprit Grover, A.K.Gadpayle, Alka Sabharwal (2010). Identifying patients with diabetic nephropathy based on serum creatinine under zero truncated model, *Electronic Journal of Applied Statistical Analysis*, Vol. 3, Issue 1, pp. 28-43, ISSN 2070-5948.
- Gurprit Grover and Rumi Dutta (2009): Survival analysis of acute myocardial infarction patients using non- www.du.ac.in Page 5 parametric and parametric approaches. *Electronic Journal of Applied Statistical Analysis (EJASA)* 1, pp.22-36. ISSN 2070-5948.
- Gurprit Grover, A.K Gadpayle and Rumi Dutta (2009): A study of cardiovascular risk factors in Delhi, India. *Journal of Communicable Diseases (JCD)* 41(2), pp. 71-80 , ISSN 0019-5138.
- Gurprit Grover, Rumi Dutta, A.K. Gadpayle, Salil Saha (2009): Changing patterns of cardiovascular risk factors and heart related sickness in relation with acute myocardial infarction in Delhi, India. *Journal of Indian Medical Association*, Vol. 107, pp. 636-642.

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- Gurprit Grover, Tripti Pensi, A.K. Gadpayle and Tanushree Banerjee (2008): Evaluation of the WHO Clinical Case Definition of AIDS among children in India. Journal of Communicable Diseases, 40(1), pp. 5-11. ISSN 0019-5138.
- Gurprit Grover and Nezhat Shakeri (2007): Estimation of incidence of HIV using modified back-projection method and a lognormal incubation distribution. Journal of Applied Probability and Statistics, Vol.2, No. 2, pp. 227-239. ISSN 1930-6792.
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- Gurprit Grover and Dulumoni Das (2004): Estimation of survivability of clinically diagnosed AIDS cases under competing risks using Cox's regression model. International Journal of Statistical Sciences, vol.3, pp. 21-27. ISSN 1683-5603.
- Gurprit Grover and Dulumoni Das (2004): Empirical Bayes estimate of survival time for clinically diagnosed AIDS cases. Assam Statistical review, pp. 75-80.
- Gurprit Grover and Nezhat Shakeri (2004): Comparison of Survival time Distributions Based on Doubly Interval Censored Data. Proceeding of the 7<sup>th</sup> Iranian Statistics Conference, pp 69-86.
- Gurprit Grover and Swami Onkar Shivraj (2004): Survival pattern of reported HIV infected individuals in the city of Delhi. Journal of communicable Diseases, 36(2), pp. 83-92. ISSN 0019-5138.

- Suddhendu Biswas, Gurprit Grover and Amar Bahadur Grung (2003): On a method to estimate the probability of the period of abstinence exceeding the period of past partum amenorrhea. *Demography India*, vol. 32, no. 2, pp. 201-213. ISSN 0970-454X.
- Gurprit Grover and Neeta Makhija (2003): On the estimation of expected survival time of heart patients based on preventive maintenance policy. *Assam Statistical Review*, vol.21, No.1-2, pp. 115-124.
- Gurprit Grover and Neeta Makhija (2002): Cox's regression model for the growth of a tumor followed by death from that tumor. *The Nepali Mathematical Science Report*, vol 20, no. 1&2, pp. 33-41.
- Suddhendu Biswas, Gurprit Nair and Vijay Kumar Sehgal (1987): Successive damage shock models predicting system survival time. *International Journal of Systems sciences*, vol. 18, no. 5, pp. 831-836. ISSN 1464-5319.
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- Suddhendu Biswas, Gurprit Nair (1984): A generalization of Freund's model for a repairable paired component based on a bivariate Geiger Muller counter. *Micro Electronics and Reliability*, Great Britain, vol. 24, no.4, pp. 671-675. ISSN 0026 2714.
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#### Conference Organization/ Presentations

- **Participated and Chaired a session in the 30<sup>th</sup> Annual Conference of the Indian Society for Medical Statistics, October 6-8, 2012 at DM College, Ludhiana.**
- **Participated and chaired a session in the 5<sup>th</sup> IASC (International Association for Statistical Computing) Asian Conference on Statistical Computing, December 15 – 17, 2005, Hong Kong.**

#### Awards and Distinctions

- **Awarded UGC fellowship during M.Phil. and Ph.D.**
- **Awarded National scholarship during M.Sc.**

#### Association With Professional Bodies

##### **Memberships:**

- **International Statistical Society.**
- **International Biometric Society.**
- **Indian Society for Medical Statistics.**