

## Dr. Arvind Pandey

Department of Statistics,  
Central University of Rajasthan,  
Bandar Sindri, Kishanghar NH-8,  
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- Objective** To Achieve excellence in teaching and specially in research work.
- Education** Ph. D. Title “Modeling Frailty for Bivariate Survival Data” (2015), Savitribai Phule Pune University, MH- 411007.  
Master of Science(1999) in Statistics from Department of Statistics, University of Allahabad, UP 211001.  
Bachelor of Science(1997), with Statistics, Physics and Mathematics from Ewing Christian College, University of Allahabad, UP 211001.
- Other Qualifications** GATE (2001) in Engineering Sciences.  
NET (2002) in Mathematical Sciences.  
JRF (2004) in Mathematical Sciences also qualify for SPM fellowship Exam.
- Projects Completed** Completed two minor research project funded by UGC in 2011 and 2014.
- Projects Ongoing**
- **Modeling Frailty for Bivariate Survival Data Based on Reversed Hazard Rate . Funded By UGC**
  - **Modeling Frailty for Survival Data. Funded by DST SERB.**
- Professional Experience** I am working as an Assistant Professor in Department of Statistics, Central University of Rajasthan, Bandar Sindri, from 26 Dec 2016.  
I had worked as an Assistant Professor & Head in Department of Statistics, Pachhunga University College (A constituent college of Mizoram University), since 2005.
- Computer Skills** Experienced in R, Matlab, Mathematica and SPSS.
- Publications**
- **(2017)** Shared Inverse Gaussian Frailty Models Based on Additive Hazards. **Communications in Statistics-Theory and Methods**. Co-author-David D. Hanagal.
  - **(2016)** Shared Gamma Frailty Models Based on Additive Hazards. **Journal of the Indian Society for Probability and Statistics** 17 (2), 161-184. Co-author-David D. Hanagal.
  - **(2016)** Gamma shared frailty model based on reversed hazard rate. **Communications in Statistics, Theory and Methods**, 45(7), 2071-2088. Co-author-David D. Hanagal. ISSN 0361-0926 (Print), 1532-415X (Online)
  - **(2016)** Correlated Gamma Frailty Models for Bivariate Survival Data Based on Reversed Hazard Rate. **International Journal of Data Science**. Co-author-David D. Hanagal. ISSN online: 2053-082X ISSN print: 2053-0811
  - **(2016)** Inverse Gaussian shared frailty models based on reversed hazard rate. **Model Assisted Statistics and Applications**, vol. 11, no. 2, pp. 137-151, 2016. Co-author-David D. Hanagal. ISBN/ ISSN No. 1574-1699.
  - **(2016)** O-Blue for Outlier Tests. **Journal of Statistics Applications & Probability** 5 (3), 1-11. Co-author-Nibha Srivastava.

- (2015) Gamma frailty models for bivariate survival data. **Journal of Statistical Computation and Simulation**, 85(15), 3172-3189. Co-author-David D. Hanagal. ISSN 0094-9655 (print) 1563-5163 (web)
- (2015) Modeling bivariate survival data based on reversed hazard rate. **International Journal of Mathematical Modelling and Numerical Optimisation**, 6(1), 72-100. Co-author-David D. Hanagal. ISSN 20403607, 20403615
- (2015) Shared Frailty Models Based on Reversed Hazard Rate for Modeling Australian Twin Data. **Indian Association for Product, Quality and Reliability Transactions**, 40(1), 61-93. Co-author-David D. Hanagal. ISSN: 0970-0102
- (2015) Inverse Gaussian Shared Frailty Models with Generalized Exponential and Generalized Inverted Exponential as Baseline Distributions. **Journal of Data Science**, 13(2), 569-602. Co-author-David D. Hanagal. ISSN 1680-743X
- (2015) Shared frailty models based on reversed hazard rate for modified inverse Weibull distribution as a baseline distribution. **Communications in Statistics, Theory and Methods**. Co-author-David D. Hanagal. ISSN 0361-0926 (Print), 1532-415X (Online) .
- (2015) Correlated gamma frailty models for bivariate survival data. **Communications in Statistics, Simulation and Computation**,. Co-author-David D. Hanagal and Ayon Ganguly. ISSN: 0361-0918.
- (2014) Gamma Shared Frailty Model Based on Reversed Hazard Rate for Bivariate Survival Data. **Statistics and Probability Letters**, 88, 190-196. Co-author-David D. Hanagal. ISSN: 0167-7152
- (2014) Shared frailty model based on reversed hazard rate for left censoring data. **Communications in Statistics: Simulation and Computation**. Co-author-David D. Hanagal and P.G. Shankaran ISSN 0361-0918 (Print), 1532-4141 (Online)
- (2014) Inverse Gaussian shared frailty for modeling kidney infection data. **Advances in Reliability**, 1, 1-14. (eSciTech Publishing). Co-author-David D. Hanagal. ISSN: 2377-1097
- (2011) A successive Sampling Strategy for Estimation of Population Mean Using Prior Information about Correlation Coefficient by Shashi Bhushan and Arvind Pandey. Appeared in **proceeding of Conference on Recent Developments in Statistics, Applied Econometrics and Forecasting**. ISBN-13: 978-1612335735 ISBN-10: 161233573X
- (2011) Bayes Estimate of Modified Weibull distribution by Arvind Pandey and Shashi Bhushan. Appeared in **proceeding of Conference on Recent Developments in Statistics, Applied Econometrics and Forecasting** ISBN-13: 978-1612335735 ISBN-10: 161233573X
- (2010) Modified Sampling Strategies Using Correlation Coefficient for Estimating Population Mean by Shashi Bhushan and Arvind Pandey, Published in **JOURNAL OF STATISTICAL RESEARCH OF IRAN (JSRI) DECEMBER 2010**, Volume 7 , Number 2; Page(s) 121 to 131. ISSN : 1735-1294

- (2010) Some Generalized Classes of Double Sampling Regression Estimators Using Auxiliary Information by Shashi Bhushan, R. Karan Singh and Arvind Pandey in **Science Vision**, 2011. ISSN-0975-6175 .
- (2009) Strong Law for Number of Edges on Surface of a unit Sphere by Bhupendra Gupta and Arvind Pandey, Published in **proceeding of Fifth International Conference on Wireless Communication and Sensor Networks (WCSN-2009)**. Print ISBN: 978-1-4244-5876-9 .

**Papers Presented** More than twelve papers are presented in international and national conferences.

**Invited Lectures**

- I delivered a series of talk on “Time series and its application”, at Central university of Bihar, Patana 2011.
- I delivered a talk on ”Frailty Models for Bivariate Survival Data in Research Scholars Meet on Reliability Theory, Survival Analysis and Related Topics at ISI Kolkata. 26 Feb to 28 Feb 2013.
- I delivered a talk on Survival Analysis and Frailty Models in Symposium of Applied Statistics, at Department of Statistics, University of Allahabad, 27 April 2013.
- I delivered a talk on Application of R in Statistics in workshop application of software in statistics, at Department of Statistics, University of BBAU, Lucknow 13 April 2013.
- I delivered a talk on Life time testing in national conference, at Department of Statistics, University of BBAU, Lucknow 13 April 2013.
- I delivered a talk on Research studies in Mizoram , at Science college Kohima, Organized by ISI Kolkata on 2-4 Nov 2015.
- I delivered a talk on “The Additive Shared Gamma Frailty Model”, at International Conference held in the Department of Statistics, SP Pune University during December 20-24, 2015..
- I delivered a talk on “REGRESSION ANALYSIS”, at statistical thinking held in the Department of Statistics, Allahabad University during May 16-22, 2016.
- I delivered a talk on “REGRESSION ANALYSIS & CORRELATION”, at National Workshop on Statistical Analysis Using Excel Software held in the Department of Statistics, Pachhunga University College Aizawl during July 13-15, 2016.
- I delivered a talk on “REGRESSION ANALYSIS, CORRELATION & Parametric Tests”, at Seven Day Training Course in SPSS for Ph. D Students in Social Science 20 to 26 September, 2016 at Assam University, Silchar, Assam 2016.

**Memberships**

Life Member of Indian Society for Probability and Statistics  
Life Member of Journal of the Indian Statistical Association

**Other Memberships**

Member in Board of Under Graduate Studies, Mizoram University since 2005.  
Member in School Board of SMES, Mizoram University since 2011.  
Member in Research, Information Technology and Project Committee of Pachhunga University College Aizawl, since 2008.

## Workshop and Conference Organized

- Workshop on Statistical Quality Control and Operation Research Practice- Methods and Application Using Software. Sponsored by ISI Kolkata, Organized by Department of Statistics, Pachhunga University College, (A Constituent College of Mizoram University, Aizawl, Mizoram. 17-18 nov 2008)
- Workshop on Statistical Methods with Applications. Sponsored by ISI Kolkata, Organized by Department of Statistics, Pachhunga University College, (A Constituent College of Mizoram University, Aizawl, Mizoram. 21-23 nov 2011)
- UGC sponsored National Conference on "CONFERENCE ON STATISTICS AND ITS APPLICATIONS" on 18th and 19th May, 2012 organized by Dept. of Statistics, Pachhunga University College, Aizawl, Mizoram.
- Program on Data Mining & Business Analytics Workshop on 2-4 March, 2015 (Organised by Indian Statistical Institute Bangalore & Pachhunga University College Aizawl)
- Fourth Workshop on Official Statistics in North Eastern States, November, 7-13, 2016 Venue: Department of Statistics, PUC, Aizawl (Organised by Indian Statistical Institute Bangalore & Pachhunga University College Aizawl)

## Some Workshop and Conference Up to 2014

- I have attended workshop on "National Workshop on Mathematical Modeling & Analysis of Financial Data" September 24-29, 2012, at Department of Statistics, University of Pune, Pune. (6 Days)
- I have attended workshop on "National Workshop on Reliability, Survival Analysis & Industrial Statistics" November 9-10, 2012, at Department of Statistics, University of Pune, Pune. (2 Days)
- I delivered a talk on "Frailty Models for Bivariate Survival Data" in Research Scholars Meet on Reliability Theory, Survival Analysis and Related Topics at ISI Kolkata. 26 Feb to 28 Feb 2013. (3 Days)
- I delivered a talk on "Application of Software's in Statistics" March 14-15, 2013 at Department of Applied Statistics, Babasaheb Bhimarao Ambedkar University, Lucknow 226025. (2 Days)
- I delivered a talk on "Testing Exponeality of Survival Data" March 16-17, 2013 at Department of Applied Statistics, Babasaheb Bhimarao Ambedkar University, Lucknow 226025. (2 Days)
- I delivered a talk on "Survival Analysis and Frailty Models" in Symposium of Applied Statistics, at Department of Statistics, University of Allahabad, 27 April 2013. (1 Day)
- I present the paper "Shared Frailty Model Based on Reversed Hazard Rate for Left Censored Data" in International conference at Pune University. 16 Dec to 18 Dec 2013. (3Days)
- I present the paper "Gamma Shared Frailty Model Based on Reversed Hazard Rate for Generalized Log- Logistic Distribution as Baseline Distribution" in ISPS Aurangabad. 26 Dec to 28 Dec 2013. (3 Days)
- I present the paper "Gamma Shared Frailty Model Based on Reversed Hazard Rate" in Cochin IWRS- 2013, 31 Dec 2013 to 2 Jan 2014. (3 Days).
- I attended "Research Scholars Meet on Reliability Theory, Survival Analysis and Related Topics" at ISI Kolkata. 19-21 February, 2014). (3 Days)

## References

1- Prof Anoop Chaturvedi.  
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3- Professor David D. Hanagal,  
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4- Professor Dilip C. Nath, Ph.D, FSMS, FRSS  
V. C.,  
Assam University Silcher  
Assam:INDIA  
Coordinator UGC (SAP) DRS-I  
Member, PAC-Math.Sc, DST, Government of India  
Member, Executive Committee , Dibrugarh University, Assam  
Member, Governing Body of NEF College of Management & Technology, Guwahati  
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