

## Dr. Arpan Kumar Thakur

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### Education

**University of Delhi, Department of Statistics**  
Ph.D., Statistics  
Field: Bio-Statistics

New Delhi  
Dec 2021 **Awarded**

**University of Delhi, Department of Statistics**  
M.Phil., Statistics, 403/500  
Field: Bio-Statistics

New Delhi  
2015-17

Dissertation: *Cure rate model: a probable alternative to traditional survival model- a review and new dimension of its applications.*

**Pondicherry University, Department of Statistics**  
M.Sc., Statistics, 7.43/10.0

Puducherry  
2013-15

- University Merit Fellowship recipient
- Project: "*Terrors of Death: Suicide Statistics Using Correspondence and Association Analysis*" submitted to the Department of Statistics, Pondicherry University, Puducherry.

**Pondicherry University, Department of Computer Science**  
PGD., in computer Applications, 482/800

Puducherry  
2013-14

**University of Delhi, Maharaja Agrasen College**  
B.Sc., Mathematical Sciences, 1074/1350

New Delhi  
2010-13

- Meritorious Student Fee Reimbursement availed for three years
- Project: "*A case study on general Services Administration, USA*" using shortest Route Algorithm submitted to Department of Mathematics, Maharaja Agrasen College, University of Delhi.

### Skills and Interest

- Computer Skills: Proficient in R, SPSS, SYSTAT, WinBUGS, FTIR, MS Office suite, Basic SAS, STATA, MATLAB and Minitab, LaTeX and database searches.
- Language Skills: Hindi, English and Maithili

### **Workshops/Trainings/Online Courses**

- Attended winter school on Stochastic Methods for Uncertainty Quantification and Sensitivity Analysis of Complex models conducted by Indo-French Center for Applied Mathematics (IFCAM) at IISER, Kolkata during December 03-14, 2018.
- Attended Faculty Development Programme on Actuarial Statistics, December 27-28, 2017 organized by Department of Statistics, University of Delhi.
- Introduction to Research (IIT Madras, NPTEL17GE05S2260421, <http://nptel.ac.in/noc/>)
- One week course on MATLAB at computer centre, University of Delhi.
- Two week course on SPSS at computer centre, University of Delhi.
- Three Days Workshop on Statistical Computing using R-Software. Organized by International Biometric Society (Indian Region), NIRT-ICMR.
- Workshop on Census Data Dissemination organized by Govt. of India (Ministry of Home Affairs) & Department of Statistics, Pondicherry University.

### **Presentations in International/National Conference**

- Presented a research paper in International Conference on Quality, Reliability, Infocom Technologies,& Business Operations (Trends and Future Directions), December 27-29, 2018, conducted by Department of Operational Research, University of Delhi, Delhi, India.
- Presented a research paper in International Conference on Recent Trends of Computing in Mathematics, Statistics and Information Technologies, March 09-11, 2018, at Department of Mathematical Science & Computer Applications, Bundelkhand University, Jhansi, India.

### **Experience**

- Working as **Senior Biostatistician** in **Novartis Pharmaceutical** since 5<sup>th</sup> July 2021.
- Worked at Institute of Economic Growth (IEG) on the project funded by Ministry of Panchayati Raj entitled “*Utilization And Impact Evaluation Of 14th Finance Commission Grants To Gram Panchayats In Selected Indian States* ” as **Senior Research Analyst (SRA)** during April, 2019 to September, 2019.
- Took practical classes of M.Sc. students during January, 2018 to January 2021 at Department of Statistics, University of Delhi.
- Part time Faculty of Statistics and Business Analytics at Data Forum Institute (ISO 9001 : 2008 certified), Laxmi Nagar, New delhi-110092. During September, 2015 to January, 2018.

## **Publications**

1. **Gurprit G., Chakravarty, S., Thakur, A. K. (2021)** Estimation of Cure Fraction and Misclassification Probabilities for HIV/AIDS Patients Under ART Using Continuous Time Hidden Markov Model. *Statistics and Applications (ISSN 2454-7395 (online) (New Series))*, 19 (2), 127-138.
2. **Grover, G., & Thakur, A. K. (2020).** On Containment Plan Amid COVID-19 in Red Zone Districts of India: Using Clinical Life Table and Cure Fraction Model. *Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138)*, 52(4), 39-48.  
[DOI: <https://doi.org/10.24321/0019.5138.202039>]
3. Grover G, Sabharwal A, Kumar S, **Thakur A.K.** On the estimation of misclassification probabilities of chronic kidney disease using continuous time hidden Markov models. *J Nephropharmacol.* 2019;8(1):e073 [doi:[10.15171/npj.2019.07](https://doi.org/10.15171/npj.2019.07)]
4. **Thakur, Arpan Kumar**, Gurprit Grover, and Kazeem Adeleke. "Effect of Prognostic Factors on Survival Time of Patients of Cardiovascular Disease using Quantile Regression." *Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138)* 51.3 (2019): 15-21.
5. Varshney MK, Grover G, Ravi V, **Thakur AK.** Cure Fraction Model for the Estimation of Long-term Survivors of HIV/ AIDS Patients under Antiretroviral Therapy. *J Commun Dis* 2018; 50(3): 1-10. [ <https://doi.org/10.24321/0019.5138.201813> ]
6. Cure Fraction Estimation for Traumatic Lumbar Puncture in Patients with Acute Lymphoblastic Leukemia (ALL) [**Accepted**]  
**Authors:** Gurprit Grover, **Arpan Kumar Thakur**, Bhawna Garg
7. A Multi State Markov Model for the Progression of Chronic Kidney Disease [**Accepted**]  
**Authors:** Gurprit Grover, Alka Sabharwal, Shrawan Kumar, **Arpan Kumar Thakur**
8. Actuarial Modeling of Insurance Premium for Patients with Acute Lymphoblastic Leukemia (ALL) [**Communicated**]  
**Authors:** Gurprit Grover, Parmmeet Kumar Vinit, **Arpan Kumar Thakur**
9. On Semi parametric and Competing Risk Cure Fraction Model in Classical Estimation Set up [**Communicated**]  
**Authors:** Gurprit Grover, **Arpan Kumar Thakur**, Sejong Bae
10. On the Estimation of Cure Fraction and the Impact of Prognostic Factors on the Survival Time of HIV/AIDS Patients Using Quantile Regression [**Communicated**]  
**Authors:** Gurprit Grover, **Chakravarty, S., Arpan Kumar Thakur**

## References

Prof. Gurprit Grover

Professor and Head,  
Department of Statistics,  
University of Delhi,  
Delhi-110007.

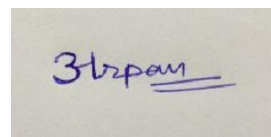
Email: [gurpritgrover@yahoo.com](mailto:gurpritgrover@yahoo.com)

Dr. Sangeeta Chakravorty

Associate Professor,  
Development Planning Centre,  
Institute of Economic Growth,  
Delhi-110007.

Email: [sangeeta@iegindia.org](mailto:sangeeta@iegindia.org)

I declare that above details are true to my knowledge.



(Arpan Kumar Thakur)