

## Research Profile of

# **Dr. Gani Shrishail Ramappa** M. Sc., PGDCA, Ph. D.

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### **PERSONAL DETAILS**

**Name:** Gani Shrishail Ramappa

**Father's Name:** Ramappa Basappa Gani

**Date of Birth :** 1<sup>st</sup> June 1977

**Gender:** Male



**Permanent Address:** H. No. 10, KHDC colony,  
At\Po: Hulyal Tq: Jamkhandi, Dist: Bagalkot  
-587301, Karnataka, India.

**Present Address:** H. No. 27/4, Vaasa  
Layout, Near Kalyan Nagar, Hattikolla,  
Dharwad - 580007, Karnataka, India.

## ACADEMIC BACKGROUND

- **Ph. D. in Statistics**, Karnatak University, Dharwad, India, April 2006.  
**Thesis:** A Study of Stochastic Epidemic Models with Preventive Measure.
- **M. Sc. in Statistics**, Karnatak University, Dharwad, India, May 2001 (*First Class with Distinction*).
- **P.G.D.C.A**, Karnatak University, Dharwad, India, June 2001 (*First Class with Distinction*).
- **B. Sc. (Statistics, Mathematics, Computer Applications)**, Com., BHS Arts and TGP Science College Jamkhandi, Karnatak University, Dharwad, India, April/May 1999 (*First Class with Distinction*).

## RESEARCH EXPERIENCE

- Worked as research scholar from July 2001 to April 2006 in the area of Stochastic Epidemic Models, in the Department of Statistics, Karnatak University, Dharwad.
- Principal Investigator of Major Research Project of worth **Rs. 6,56,800/-** in Statistics, entitled “New Developments in Stochastic Epidemic Models” sanctioned in the UGC eleventh plan grant by UGC.
- Co- Principal Investigator of DST Major Research Project of worth **Rs. 14.5 lacks** /- in Statistics, entitled “A Study of Stochastic Epidemic Models and Optimal Control Policies” with Principal Investigator Prof. A. S. Kadi.
- Recognized Research Guide in Department of Statistics, Karnatak University, Dharwad.

### Details of Ph.D. under my supervision:

1. *Scholar's Name* : Dr. (Smt.) Shreedevi Halawar  
*Title of the Thesis* : Methods of Studying Stochastic Optimal Control Theory for Epidemic Processes  
*Registration No. & Date*: 576/12.12.2013 and *Date of Award*: 11.10.2018  
*Name of the Institute*: Karnatak University, Dharwad

### DESIGNATION:

**Working as Professor in the Department of Statistics, Karnatak Science College, Karnatak University, Dharwad from 5<sup>th</sup> November 2022.**

## SOFTWARE PROFICIENCY

- **Programming** : Pascal, COBOL, Fortran, C, R-Programming.
- **Statistical Packages** : MATLAB, SPSS, SYSTAT.
- **Documentation** : Word Processing, Latex.

## PUBLICATIONS

1. Suhas Bhat, Surekha B. Munoli and **Shrishaail R. Gani** , A control theory based analysis of repairable system, *International Journal of Agricultural and Statistics Sciences* Vol. 17, Supplement 1, pp. 957-965, 2021.
2. Shankrevva Gani, **Shrishaail R. Gani** and Deterministic and stochastic models for unemployment , *Journal of Applied Probability and Statistics*, Volume 16, issue 1, 31-46, April 2021.
3. Shankrevva Gani, **Shrishaail R. Gani** and Surekha B. Munoli, Optimal control analysis of unemployment models-A Stochastic Approach. *International Journal of Mathematics and Statistics* Volume: 21 Issue: 3, 2020, online.
4. Shankrevva Gani, **Shrishaail R. Gani** and Surekha B. Munoli, Optimal control analysis for Stochastic Unemployment Model, *International Journal of Mathematics and Statistics*, Volume 20; Issue Number 2, 2019.
5. **S. R. Gani** and S. V. Halawar, Optimal Control Analysis of Deterministic and Stochastic Epidemic Model with Media Awareness Programs, *An International Journal of Optimization and Control: Theories & Applications*, Volume: 3 Issue: 1, 2018.
6. **S. R. Gani** and S. V. Halawar, Optimal control for the spread of infectious disease: The role of awareness programs by media and antiviral treatment, *Optimal Control Applications and Methods*, Volume: 39 Issue: 4, July/August 2018, pp. 1407-1430; <https://doi.org/10.1002/oca.2418>, Impact factor: 1.614
7. Surekha B. Munoli, Shankrevva R. Gani and **Shrishaail R. Gani**, A Mathematical Approach to Employment Policies: An Optimal Control Analysis, *International Journal of Statistics and Systems*, Volume: 12 Issue: 3, 2017, pp. 549-565.

8. **S. R. Gani** and S. V. Halawar, Optimal Control Analysis of Deterministic and Stochastic Epidemic Model with Vaccination, *International Journal of Statistics and Systems*, Volume: 12 Issue: 2, 2017, pp. 251-263.
9. **S. R. Gani** and S. V. Halawar, Deterministic and Stochastic Optimal Control Analysis of an SIR Epidemic Model, *Global Journal of Pure and Applied Mathematics*, Volume: 13 Issue: 9, 2017, pp. 5761-4778.
10. **S. R. Gani** and S. V. Halawar, Analysis of an SIVR Epidemic Model with Different Optimal Control Strategies, *Research Journal of Mathematical and Statistical Sciences*, Volume: 5 Issue: 2, 2017, pp. 5-13.
11. A. S. Kadi, S. R. Itagimath and **S. R. Gani**, A Review of the HIV/AIDS Epidemic in Karnataka, *International Journal of Current Research*, Vol. 8, Issue, 09, pp.37916-37923, September, 2016.
12. S. L. Sangam1 , **S. R. Gani** and Preeti Patil, H1N1: A Webometrics Study, Proceedings of The International Conference on Big Data & Knowledge Discovery, Documentation Research and Training Centre (DRTC), *Indian Statistical Institute Bangalore*, March 2016.
13. A. S. Kadi, Sahana P. Hiremath and **S. R. Gani**, Optimal Control of an Influenza Model with Multiple Control Strategies, *International Journal on Recent Trends in Life Science and Mathematics*, Volume: 2 Issue: 5, May 2015.
14. A. S. Kadi, S. R. Itagimath and **S. R. Gani**, Dynamic characteristic analysis of mother to child transmission of HIV in India, *Global Journal of Medicine and Public Health*, 3 (6), 2014. (Corresponding author: **S. R. Gani**, ISSN No. 2277-9604).
15. S. L. Sangam ,U. B. Arali, C. G. Patil and **S. R. Gani**, Research Trends in Genetics: Scientometric Profile of Selected Asian Countries, *DESIDOC Journal of Library and Information Technology*, Vol. 34, No. 3, May 2014
16. A. S. Kadi and **S. R. Gani**, On the time to extinction of Recurrent Epidemics with Initial Preventive Measures, *International Journal of Agricultural and Statistical Sciences*, Vol.7,No.2,Dec. 2011.
17. **S. R. Gani**, Sk. Taslim Ali and A. S. Kadi, The Transmission Dynamics of Pandemic Influenza A/H1N1 2009-10 in India, *Current Science*, Vol. 101, No. 8, 25 October, 2011. Impact factor: 0.912.
18. A. S. Kadi and **S. R. Gani**, Four-Stage HIV/AIDS Epidemic Model, *Journal of the Indian Statistical Association*, Vol. 47, No. 2, 109-131, Dec., 2009.
19. A. S. Kadi and **S. R. Gani**, Size and Structure of Immigration to Canada, an exploratory Data Analysis, Published in *Karnatak University Journal of Science*, vol. 47, 2006 – 07.
20. A. S. Kadi and **S. R. Gani**, Population Aging and Problems in Canada and India, Published in proceedings of the Conference on “*Market Forces and Cultural Change: Canada and India*”, 2006.
21. A. S. Kadi and **S. R. Gani**, General Stochastic Epidemic Model with Preventive Measure, Published in proceedings of the *Seventh Conference of International Biometric Society (IR)* held at BHU, Varanasi, 2003.

## **INVITED TALKS/SPECIAL LECTURERS GIVEN IN CONFERENCE/WORKSHOPS**

1. Six lecturers given on R – programming in two days state level workshop on “Statistical Computing Using R” organized by St. Agnes College – Mangalore on 16<sup>th</sup> and 17<sup>th</sup> July, 2012.
2. Six expert lecturers given on “Modeling and system simulation & its implementation through GPSS” to M.Sc. Computer Science Course in P. C. Jabin Science College, Hubli on 17<sup>th</sup> and 18<sup>th</sup> May, 2012.
3. Delivered Invited talk on Excel, SPSS and R- programming in the Department of Computer science, Kuvempu University, Shankarghatta, Shimoga as a part of Computer Skill classes for MBA and M. Com Students from 07.03.2015 to 08.03.2015.
4. Delivered Invited talk in two-day workshop on R- programming in the department of Mathematics, Nehru Memorial College, Puthanampatty, Trichy District, Tamilnadu during 25 - 26 September 2015.
5. Delivered Invited talk on SPSS and R- programming in the Department of Computer science, Kuvempu University, Shankarghatta, Shimoga as a part of Computer Skill classes for MBA and M. Com Students from 07.03.2015 to 08.03.2015.

## **PAPERS PRESENTED IN CONFERENCE/WORKSHOPS/SEMINORS ATTENDED**

1. Recurrent Epidemic Model with Initial Preventive Measures, presented at VIII<sup>th</sup> Conference of the International Biometric Society (IR) held at University of Agricultural Science, Bangalore, October 2005.
2. Quasi-Stationary Distribution of Recurrent Epidemic Model with Initial Preventive Measures, presented at National Conference on Statistical Inference held at Department of Statistics and Center for Advanced Studies in Statistics, University of Pune, January 2006.
3. A Stochastic Model for Unemployment, presented in the ISBA Regional Meeting and International Workshop/Conference on Bayesian Theory and Applications (IWCBTA) held at BHU, Varanasi, India during January 6-10, 2013.
4. A Simple Stochastic Model for Employment, presented in National Conference on Recent Advances in Statistics held at Department of Statistics and Centre for Advanced Studies, Savitribai Phule Pune University, Pune, January 2-3, 2015.

## **CONFERENCE/WORKSHOPS/SEMINORS ATTENDED**

1. Seventh Conference of International Biometric Society (IR) held at BHU, Varanasi, 2003.
2. UGC sponsored Workshop on Electoral Reforms: Law and Campaign Finance, organized by Dept., of Studies in Law, University College of Law and Society for Human Rights law, Dharwad, 17 January 2010.
3. UGC sponsored Workshop on *Innovative Teaching Methods in Statistics*, organized by P. C. Jabin Science College, Hubli, 23 March 2010.
4. One day seminar on “ Statistics Day” organized by Department of Statistics, KUD and National Sample Survey Organization Hubli (Govt., of India), 29 June 2010.
5. One day workshop on “Simulation Techniques and Reliability Theory” organized by Department of Statistics, G.G.D. Arts B. P. Com., and S.V.S. Science College, Bailhongal, 27<sup>th</sup> March, 2011.

## REFERENCES

1. Dr. S. B. Munoli,  
Associate Professor,  
Department of Statistics,  
Karnatak University, Dharwad.  
Email:sbmunoli@yahoo.co.in, Mobile : 9480461295
2. Prof. N. M Bujurke  
Emeritus Fellow (UGC)  
Department of Mathematics,  
Karnatak University, Dharwad-580 003  
Email: bujurke@yahoo.com; Mobile : 9448424745

## SUMMARY

I am expertise in Stochastic Processes applications, Epidemic Models, Simulation, Statistical Inference, Operations Research and Econometrics. I have thorough knowledge in developing programmes for scientific applications using R, MATLAB, C, and Fortran programming languages.

My strengths are love for teaching and research, hard work and curiosity to learn new things.

**Dr. Gani Shrishail R.**