


ST GREGORIOS COLLEGE, KOTTARAKARA

FACULTY PROFILE

NAME	Dr SEEMA S NAIR		
DEPARTMENT	STATISTICS		
DESIGNATION	Assistant Professor		
ADDRESS	Chandra Vihar, Niranam North P.O., Thiruvalla, Pathanamthitta Kerala, PIN 689621		
TELEPHONE NUMBER(S)	9495256635		
EMAIL ID(S)	seema.cms@gmail.com , seemasgc@gmail.com		
ACADEMIC QUALIFICATIONS (with name of degree awarding University)	MSc Statistics (MG University, Kerala) PhD (Banaras Hindu University, Varanasi)		
TEACHING EXPERIENCE	6 years		
SPECIALIZATION	Generalized distributions and special functions		
PUBLICATIONS/ PARTICIPATION IN SEMINARS/ CONFERENCES ETC (Please attach a separate detailed list with titles of papers, names of conferences, etc)		INTERNATIONAL	NATIONAL
	NO. OF RESEARCH PAPERS IN JOURNALS	7	2
	NO. OF PUBLICATIONS IN CONFERENCE PROCEEDINGS	3	4
	NO. OF CONFERENCES PARTICIPATED IN	7	14
PROJECTS			
DETAILS OF RESEARCH SUPERVISION	NO OF STUDENTS AWARDED PHD NO. OF STUDENTS WITH SUBMITTED DISSERTATIONS NO. OF CURRENT STUDENTS:		
HONOURS AND AWARDS	<ul style="list-style-type: none"> • Professor A.K. Agrawal Prize for Best Paper Publication from India for Year 2009-10 in the 9th Annual Conference of the Society for Special Functions & Their Applications (SSFA-2010). • Best Paper Presentation Award in National Meet of Research Scholars in Mathematical Sciences (NMRSMS-2009), IIT Roorkee. • First Prize in SERC School Sponsored by DST on “Multivariate and Matrix Variable Calculus and Statistical Distributions” in 2009. 		

POSTS HELD	<ul style="list-style-type: none">• Co-ordinator of Walk with a Scholar Program• Website Admin• Convener, IQAC
ANY OTHER INFORMATION	
PHOTO (Please copy and paste the photograph you would like to have as your profile image)	

PUBLICATION DETAILS

Papers Published in Refereed International Journals

1. **Seema Nair, S.**, An Overview of the Generalized Gamma Mittag-Leffler Model and Its Applications, *Axioms*, 4(3), 365-384; doi:10.3390/axioms4030365 (2015).
2. Sebastian N., **Seema Nair S.**, Joseph D.P, An Overview of the Pathway Idea and Its Applications in Statistical and Physical Sciences, *Axioms* 4, 530-553; doi:10.3390/axioms4040530 (2015).
3. **Seema Nair S.**, Pathway fractional integral operator and matrix-variate functions, *Integral Transforms and Special Functions*, 22(3), (2011), 233-244.

Impact Factor:0.73, Citation Index:6, h Index:3.

4. Muralidharan, K. and **Seema Nair, S.**, A q-Weibull counting process through fractional differential operator, *International Journal of Stochastic Analysis*, (2011), doi: 10.1155/2011/797656.
5. Haubold, H.J., Kumar, D., **Seema Nair, S.**, Joseph, D.P., Special functions and pathways for problems in astrophysics: an essay in honor of A.M. Mathai, *Fractional Calculus and Applied Analysis*, 13(2), (2010), 133-157.

Impact Factor:1, Citation Index:4, h Index:3

6. **Seema Nair, S.**, Pathway fractional integration operator, *Fractional Calculus and Applied Analysis*, 12(3), (2009), 237-252.

Impact Factor:1, Citation Index:62, h Index:3.

7. Kilbas, A.A., **Seema Nair, S.**, Generalized fractional calculus of the generalized Wright function, *Mathematical Science Research Journal*, 13(3) (2009a), 48-67.

Papers Published in Refereed Conference Proceedings

1. **Seema Nair S.**, Generalized Gamma Model and Pathway Fractional Operator, *Applied Statistical Techniques and Stochastic Modelling- Proceedings of National Seminar in Applied Statistics and Symposium on Stochastic Modelling, NSASSM-2020*, (2020), 207-216.
2. **Seema Nair S.** and Nicy Sebastian, Generalized q-logistic Distribution and Its Characterizations, *Proceedings of 17th Annual Conference SSFA*, 17 (2018), 55-64.
3. **Seema Nair S.**, Generalized gamma Mittag-Leffler model via pathway operator, *Proceedings of the National Conference on Recent Advances in Statistical Theory and Computational Technique*, (2015), 57-77.
4. **Seema Nair S.**, q-gamma model associated with Mittag-Leffler function, *Proceedings of the International Conference on Mathematical Sciences*, (2011a), 237-246.

5. **Seema Nair, S.**, Kattuveetil, A., Some remarks on the paper ‘On the q-type distributions’, *Astrophysics and Space Science Proceedings*, (2010), 11-15.

Impact Factor:2.064, Citation Index:3, h Index:3

6. **Seema Nair, S.**, Some special cases of generalized H -function and fractional calculus operators, *Proceedings of the 9th Annual Conference on SSFA*, 9, (2010c), 39-51.
7. **Seema Nair, S.**, A matrix-variate pathway fractional operator and connections to statistical distributions, *Proceedings of the National workshop on Fractional calculus and Statistical distributions*, CMS Publication No. 41, (2010b),23-32.

Other Publications

1. **Seema Nair, S.**, Fractional calculus on H-function and its special cases, *STARS, Int. J. Sciences*, 2(1), (2008), 65-77.
2. **Seema Nair, S.**, Kattuveetil, A., Some aspects of Mittag-Leffler functions, their applications and some new insights, *STARS, Int. J. Sciences*, 1(2), (2007), 118-131.

BOOKS EDITED/CO-AUTHORED

Shanoja S. Pai, Nicy Sebastian, **Seema S. Nair**, Dhannya P. Joseph and Dilip Kumar, Proceedings of the National Workshop on Fractional Calculus and Statistical Distributions (CMS Publication-41) sponsored by Department of Science and Technology, Government of India, New Delhi, India.

INTERNATIONAL COLLABORATIONS IN RESEARCH

- **Dr H. J. Haubold**, Chief Scientist, Office of Outer Space Affairs, United Nations Office at Vienna, Vienna, Austria.
- **Dr Anatoly A. Kilbas**, Professor, Faculty of Mathematics and Mechanics, Belarusian State University, Minsk, Belarus.
- **Dr Rudolf Gorenflo**, Professor, Faculty of mathematics, Free University, Germany.

NATIONAL COLLABORATION IN RESEARCH

- **Dr K. Muralidharan**, Professor, M.S University of Baroda, Baroda, India.

INVITED TALKS

1. “Pathway Fractional Integral Operator and Related Distributions” in the National Workshop-cum-Colloquium on Applicable Mathematics in Basic Science Education and Research organized by Srinivasa Ramanujan Institute for Basic Sciences under KSCSTE during 5-7 April 2013 at Triruvananthapuram.
2. “A Pathway to Generalized Fractional Integral Operator and Statistical Distributions” in the Young scientist award competition-2013 of the Indian Science Congress Association Section: Mathematical Sciences (Including Statistics) held by Culcutta University, Culcutta during January 3-5, 2013.
3. “A Fractional Approach to Generalized Gamma Mittag-Leffler Model via Pathway Operator” in the 6th International Conference on “Analytic Methods

of Analysis and Differential Equations” dedicated to the memory of Professor Anatoly Kilbas held by Belarusian State University in Minsk, Belarus during September 11-18, 2011.

CONTRIBUTORY TALKS

1. “Generalized Gamma Model and Pathway Fractional Operator” in the National Seminar in Applied Statistics and Symposium on Stochastic Modelling, NSASSSM-2020 organized by St. Thomas College, Thrissur during 4-6 February 2020.
2. “On Generalized q -logistic Distribution and Its Applications in Production - Growth Process” in the international Conference on Special Functions and Their Applications organized by Amal Jyothi College of Engineering, from 22nd to 24th November 2018.
3. “A q -Weibull process through fractional differential operator” in the UGC sponsored National Seminar on held at Chatholocate College, Pathanamthitta during February 6-7, 2015.
4. “On q -logistic Distribution and Its Characterizations” in the National Conference on “Statistics for twenty first century” held at University of Kerala, Kariavattom during March 20-22, 2014.
5. “A Counting Process with q -Weibull Inter Arrival Times via Fractional Calculus” in the National Conference on “Advances in Statistical Theory and Applications” held by Bangalore University, Bangalore during November 16-18, 2011.
6. “On Matrix-variate Pathway Fractional Integral Operator” in the International Conference on Special Functions and Their Applications (ICSFA-2011) & Symposium on Works of Ramanujan held during July 28-30, 2011 at Jodhpur.
7. “Some Aspects of Extended Gamma Model Through Mittag-Leffler Function” in the International Conference on New Trends in Life Testing, Bayesian Inference, Sampling theory, Bio-Statistics, Bio-Informatics and Computer Applications held at the Department of Statistics, Banaras Hindu University, Varanasi, India, from 5-8 January 2011.
8. “A Fractional Approach to Matrix-Variate Gaussian Density through Pathway Fractional Integral Operator” in the International Conference on Mathematical Sciences in Honour of Professor A. M. Mathai Held at Department of Statistics St Thomas College Pala, Kerala, India from 3-5 January 2011.
9. “ q -Gamma Model Associated with Mittag-Leffler Function” in the UGC Sponsored National Seminar on Recent Trends in Mathematical Modelling & Statistical Applications held at the Department of mathematics, Devamatha College, Kuravilangad, Kerala India.
10. “Some Aspects of Generalized Gamma Model Via Mittag-Leffler Function” presented in the seminar on New Trends in Applied Statistical Methodology and Annual Conference of the Kerala Statistical Association held at Postgraduate & Research Department of Statistics, Nirmala college Muvattupuzha, from 25-27 February 2010.
11. “Mittag-Leffler Function, Pathway Model and Their Applications in Fractional Calculus” on 97th Indian Science Congress Association held at University of Kerala, Thiruvananthapuram, India, January 3-7, 2009.
12. “On a Generalized Riemann-Liouville Fractional Operator Through Pathway Model” on National Meet of Research Scholars in Mathematical Sciences held at IIT Roorkee, U.P., India, from December 19-23, 2009.

13. "Pathway Fractional Integration Operator" on National Workshop on Fractional Calculus and Statistical Distributions held at CMS Pala Campus, Kerala, India, from November 25-27, 2009.
14. "Certain Fractional Integral and Differential Formulae Based on Wright and Related Functions" on 96th Indian Science Congress Association held at Nehu, Shillong, India, from January 2-8, 2009.
15. "A Few Comments on a Recently Published Paper" on National Conference on Statistics, Computer and Applications as a part of the 10th Annual Conference of the Society of Statistics, Computer & Applications (SSCA), held at St Thomas College Pala, Kerala, India, from November 16-18, 2007.
16. "Some Remarks on the Paper 'On the q-type Distributions' "on 12-th Annual Conference of Vijnana Parishad of India and National Symposium on Applications of Special Functions, Jodhpur, India, from October 25-27, 2007.

COURSEWORK/WORKSHOP ATTENDED

1. Participated in the Workshop on Reliability Theory and Survival Analysis held at Indian Statistical Institute, Bangalore, during 28-30 November 2018.
2. Participated in the International Seminar on Stochastic Processes and Applications conducted as part of Scholar in Residence Programme under the Erudite Scheme, approved and supported by the Kerala State Higher Education Council at B.K. College for Women, Amalagiri, on 26th June 2017.
3. Attended a International Conference on Statistics, Probability and Related Areas held at the Department of Statistics, Cochin University of Science and Technology, Kerala from 19-22 December 2011.
4. Attended a National Seminar on Stochastic Modeling and Analysis held at the Department of Statistics, Cochin University of Science and Technology, Kerala from 24-25 March 2011.