National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile:

       R. Gowthami was born in Puducherry, INDIA. She received her M.Sc. in Mathematics from Pondicherry University in 2017. She received her Ph.D. in Mathematics from Pondicherry University in 2021. Her area of research include classical/retrial queueing models and phase type queueing models with MAP arrival. She has published 8 articles in reputed journals. She has presented papers in 8 International/National Conferences. She has worked as a Temporary Faculty in the department of Mathematics, NIT Tiruchirappalli from August 2021 to July 2022. From September 2022 to till date, she has been working as an Assistant Professor in the department of Mathematics, NIT Tiruchirappalli.

Google Scholar: https://scholar.google.com/citations?user=JX3NNf0AAAAJ&hl=en&oi=sra

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57211802300

ORCiD: https://orcid.org/my-orcid?orcid=0000-0002-6868-0124

ResearchGate: https://www.researchgate.net/profile/Gowthami_Ranganathan

1. Name: Dr. R. GOWTHAMI

2. Designation: Assistant Professor-Grade II

3. Office Address: Department of Mathematics, NIT Tiruchirappalli

4. Telephone (Direct) (Optional): NIL

   Telephone :   Extn (Optional):

   Mobile (Optional):

5. Email (Primary):gowthami@nitt.edu   Email (Secondary) :gowthami9424@gmail.com

6. Field(s) of Specialization:

   Stochastic Processes-Queueing Theory

7.   Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Tiruchirappalli	23.09.2022	Present
Temporary Faculty	NIT Tiruchirappalli	August 2021	July 2022

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Pondicherry University	2021	NA	Mathematics
M.Sc.	Pondicherry University	2017	I	Mathematics
B.Ed.	Pondicherry University	2015	I	Mathematics
B.Sc.	Pondicherry University	2014	I	Mathematics
HSC	State board of Tamil Nadu	2011	I	Mathematics, Physics, Chemistry, Biology
SSLC	State board of Tamil Nadu	2009	I	General

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
-	-	-	-

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
-	-	-	-

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2017	Gold Medal	KMCPGS(Autonomous), Affiliated to Pondicherry University
2014	Gold Medal	BGCW(Autonomous), Affiliated to Pondicherry University
2009	State Third in SSLC Public Examination	Government of Puducherry

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2018	NFOBC	UGC	APR 2018	NOV 2021
2011	INSPIRE SCHOLARSHIP	DST	2011	2014

13. Details of Academic Work
   (i) Curriculum Development - NIL
   (ii) Courses taught at Postgraduate and Undergraduate levels
      UG:
      1. MAIR44 Partial Differential Equations ad Numerical Methods
      2. MAIR21 Complex Analysis and Differential Equations
      3. MAIR22 Complex Analysis and Differential Equations
      PG:
      1. MA601 Numerical Methods and Applied Statistics
      2. MA602 Applied Mathematics
      3. MA623 Applied Mathematics
      4. MA712 Statistical Computing - Lab
   (iii) Projects guided at Postgraduate level - NIL
   (iv) Other contribution(s) - NIL

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
-	-	-	-	-

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
-	-	-	-

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
January 7-10, 2019	International Conference on Advances in Applied Probability and Stochastic Processes (In Honour of Prof. A. Krishnamoorthy)	International	Paper presenter	CMS College, Kottayam, Kerala	CMS College, Kottayam, Kerala
August 1-3, 2019	34th Annual Conference of the Ramanujan Mathematical Society (RMS)	International	Paper presenter	Pondicherry University, Puducherry	Pondicherry University, Puducherry
December 28-30, 2019	International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics and Mathematics (AOSM 2019)	International	Paper presenter	Department of Mathematics, BITS Pilani – Pilani Campus, India	Department of Mathematics, BITS Pilani – Pilani Campus, India
21st, 22nd, 28th & 29th November 2020	International Virtual Conference on Prof. C. R. Rao's School of Thought on Statistical Sciences-2020(ICON-CRRAO-	International	Paper presenter	Department of Statistics, Ramanujan School of Mathematical Sciences, Pondicherry University(A Central University) & Department of Mathematics &	Department of Statistics, Ramanujan School of Mathematical Sciences, Pondicherry University(A Central University) & Department of Mathematics &

	STOSS-2020)			Statistics, Mrs. A.V.N. College(Almamater of Prof. CR RAO), Visakhapatnam, India	Statistics, Mrs. A.V.N. College(Almamater of Prof. CR RAO), Visakhapatnam, India
December 17-20, 2020	86th Annual Conference of Indian Mathematical Society-IMS 2020(An online conference)	International	Paper presenter	Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Vellore, India	Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Vellore, India
21st-22nd December 2020	International Conference on Mathematical Sciences and Computational Intelligence	International	Paper presenter	School of Mathematics, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, India	School of Mathematics, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, India
February 25-26, 2021	International Conference FMAACM2021 (An online conference)	International	Paper presenter	Pondicherry University (A Central University of India), India	Pondicherry University (A Central University of India), India
March 24-26, 2021	24th Ramanujan Symposium-National Conference on Stochastic Modeling and Computational Techniques	National	Paper presenter	Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, India	Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, India

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
-	-	-	-	-

18. Invited Talks delivered

Topic	Date	Inviting Organization
-	-	-

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
-	-	-

20. Academic Foreign Visits

Country	Duration of Visit	Programme
-	-	-

21. Publications

 (A) <u>Refereed Research Journals</u>:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
G. Ayyappan, R. Gowthami	Analysis of MAP/PH/1 retrial queue with constant retrial rate, Bernoulli schedule vacation, Bernoulli feedback, breakdown and repair	Reliability: Theory and Applications	14	2(53)	2019	
G. Ayyappan, R. Gowthami	Analysis of MAP/PH(1),PH(2)/2 Queue with Bernoulli Schedule Vacation, Bernoulli Feedback and Renege of Customers	Int. J. Appl. Comput. Math	5	159	2019	
G. Ayyappan, R. Gowthami	Analysis of $MAP, PH^{OA}_2 /PH^{I}_1, PH^{O}_2 /1$ retrial queueing system with two way communication, vacation, feedback and impatient customers	Soft Computing	25	15	2020	

G. Ayyappan, R. Gowthami	Analysis of MAP/PH/1 retrial queue with constant retrial rate, working vacations, abandonment, flush out, search of customers, breakdown and repair	International Journal of Operational Research, Inderscience Publishers	42	3	2021	
G. Ayyappan, R. Gowthami	A MAP/PH/1 queue with Setup time, Bernoulli vacation, Reneging, Balking, Bernoulli feedback, Breakdown and repair	Reliability: Theory and Applications	16	2(62)	2021	
G. Ayyappan, R. Gowthami	A MAP/PH/1 queue with Setup time, Bernoulli schedule vacation, Balking and Bernoulli feedback	Int. J. Appl. Comput. Math	8	2	2022	
G. Ayyappan, R. Gowthami	A MAP/PH1, PH2/1 system with two types of heterogeneous service, setup, closedown, vacation, immediate feedback, breakdown and repair	International Journal of Mathematics in Operational Research	22	3	2022	
G. Ayyappan, R. Gowthami	Analysis of MAP/PH1, PH2/2 Queue with Working Breakdown, Starting Failure, and Bernoulli Vacation	In Book: S. R. Kannan et al. (eds.), Fuzzy Mathematical Analysis and Advances in Computational Mathematics, Studies in Fuzziness and Soft Computing 419			2022	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
-	-	-	-	-	-	-

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
-	-	-	-	-