KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade

Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:25-12-2020

Department	MATHEMATICS	Application No.	202020203
Area of Research	REGRESSION ANALYSIS	Research Mode	PART TIME

Name :SALINI C G

Date of Birth / Age :08-04-1983 / 37 Years

Gender :FEMALE

Category :OC

e-Mail ID :gspthottu@gmail.com

Mobile :8281740971,8281608514

Father's/Husband's Name	SALINI C G	Father's/Husband's Occupation	GOVERNMENT SERVANT
Family Income	37500	Residental Type	RURAL
Birth Place	KULAKKADA EAST	Mother Tongue	MALAYALAM
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	212732609913	PAN No.	BOTPG2841H
Physically Challenged	NO	Type of Disability	-

Address for Communication:
THOTTAPPUZHAYATTIL,THONNALLOR.
PANDALAM P O
ADOOR
PATHANAMTHITTA DISTRICT
KERALA
INDIA
Pin-689501

Permenant Address:
THOTTAPPUZHAYATTIL,THONNALLOR
PANDALAM P O
ADOOR
PATHANAMTHOTTA DISTRICT
KERALA
INDIA
Pin-689501

Qualification

Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
BSC	MATHEMATICS	KERALA/ST GREGORIOUS COLLEGE KOTTARA	2003	893/1000	FIRST CLASS	REGULAR
MSC	MATHEMATICS	MG UNIVERSITY/MARTHOMA COLLEGE THIRUVALLA	2005	1638/2200	FIRST CLASS	REGULAR

Experience

Organization	Designation	Experience From	Experience TO	Work Nature
MOUNT ZION COLLEGE OF ENGINEERING,KADAMMANITTA	LECTURER	2008-09-04	2012-03-04	REGULAR
MUSALIAR COLLEGE OF ENGINEERING,PATHANAMTHITTA	ASSISTANT PROFESSOR	2012-03-05	2016-07-29	REGULAR
SREENARAYANA INSTITUTE OF TECHNOLOGY	ASSISTANT PROFESSOR	2016-08-01	2019-10-04	REGULAR
SREEBUDDHA COLLEGE OF ENGINEERING,PATTOOR,PADANILAM	ASSISTANT PROFESSOR	2019-10-09	1970-01-01	REGULAR

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202020203_201225174257	VUR29594292740	25-12-2020	600	SUCCESS

Proposed Area and Topic of Research

Name of the Candidate : SALINI C G

Field of Research : REGRESSION ANALYSIS

PROPOSED TITLE OF THE WORK:

ESTIMATION OF REGRESSION COEFFICIENTS IN THE PRESENCE OF SPATIALLY AUTO CORRELATED ERROR TERMS.

Statistics is the science of collecting, analysing, presenting, and interpreting data. Governmental needs for census data as well as information about a variety of economic activities provided much of the early impulsion for the field of statistics. Currently the need to turn the large amounts of data available in many applied fields into useful information has stimulated both theoretical and practical developments in statistics. Possible research areas in statistics are Bayesian Computation, Monte Carlo methods, Statistical Machine Learning, High dimensional Bayesian statistics and Bayesian nonparametrics, asymptotic theory, model selection, Bayesian tests and Bayesian computation. Latest research area in statistics are animal and plant demography, astrostatistics and model calibration, bioinformatics, biostatistics, data Science, decision analysis and support, ecological statistics, econometric modelling.

Statistics plays a vital role in every field of human activity. Statistics helps in determining the existing position of per capita income, unemployment, population growth rates, housing, schooling medical facilities etc in a country.

Regression coefficients are estimates of the unknown population parameters and describe the relationship between a predictor variable and the response variable. In linear regression, coefficients are the values that multiply the predictor values. My research topic is to estimation of regression coefficients in spatially auto correlated error terms. Spatial autocorrelation occurs when population members are related through their geographic location. In this study, we use a first-order spatial autoregressive formulation to model the correlation among the errors of a linear demand equation that explains origin-destination flows. The process splits the error term for each observation into a weighted sum of all the other errors and a purely random noise. The weights are new parametric

functional forms defined to measure the proximity between origins and destinations of flows. The parameters of these weights, along with the other parameters of the model, are estimated by the method of maximum likelihood. This paper presents a maximum likelihood procedure for simultaneously estimating the parameters of the correlation function and the regression coefficients. The purpose of this paper is to provide a third alternative to estimate the covariance matrix of the error terms so that this information can be used to obtain efficient estimates of the regression coefficients and the unbiased estimates of the standard errors. The method presented is based on the notion that the correlation between the error terms is a function of the distance between observations.

REFERENCES

1)ROBIN A DUBIN-THE REVIEW OF ECONOMICS AND STATISTICS VOL.70, NO.3(AUG..1988), PUBLISHED BY THE MIT PRESS.

2)A K SHARMA-TEXTBOOK OF CORRELATIONS AND REGRESSION, DISCOVERY PUBLISHING HOUSE, NEW DELHI.

3)GRIFFITH, DANIEL A-SPATIAL AUTOCORRELATION AND SPATIAL FILTERING, SPRINGER SCIENCE AND BUSINESS MEDIA.

2)

UNIVERSITY OF KERALA
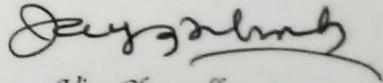
कर्मणि व्यज्यते प्रज्ञा
കേരള സർവകലാശാല

FACULTY OF EDUCATION

The Senate of the University of Kerala hereby makes known that **Salini, C.G.** has been admitted to the Degree of Bachelor of Education, she having been certified by duly appointed Examiners to be qualified to receive the same, and having been by them placed in the **Second** Class with the Optional Subject **Mathematics** at the examination held in **September 2007** .

Given under the seal of the University

University Buildings
Thiruvananthapuram **August 10, 2009**

Vice Chancellor

0097026

Register No. & Year | 72565
April 2005

Mahatma Gandhi University

FACULTY OF SCIENCE

The Syndicate of the Mahatma Gandhi University

hereby makes known that

Salini C.G.

has been admitted to the

Degree of Master of Science

he/she having been certified by duly appointed Examiners

to be qualified to receive the same and having been by them

placed in the .... First .... Class in Branch (I-a)

Mathematics

at the examination held in.............. April 2005..............

Given under the seal of the University.

University Buildings
Kottayam - 686 560
Kerala, India

19 July 2007

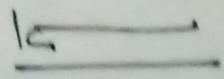Vice-Chancellor

UNIVERSITY OF KERALA

FACULTY OF SCIENCE

The Senate of the University of Kerala hereby makes known that

Salini, C.G. has been admitted to the Degree of Bachelor of Science, he/she having been certified by duly appointed examiners to be qualified to receive the same, and having been by them placed after passing the prescribed examinations in the ....Third.... Class in Part I- English in the ....First.... Class in Part II- Second Language (....Malayalam....) and in the ....First.... Class in Part III- Optional Subjects (....Mathematics.... Main ....Statistics.... and ....Physics.... Subsidiaries) in ....April 2002.... ....April 2002.... and ....April 2003.... respectively.

Given under the seal of the University.

University Buildings

Thiruvananthapuram, September 30, 2003

Vice-Chancellor

Mahatma Gandhi University

Book No.: 18

Serial No.: 80

Section : EH – I

KOTTAYAM,

Dated 3 1 AUG 2005

MEMORANDUM

The following marks were awarded to Sri/Smt. **Salini. C.G.**

candidate with Reg. No. **72.565** at the M. Sc. Degree IV Semester Examination

held in **April** 2005.

SUBJECTS	MARKS AWARDED			Minimum marks required for a pass	Maximum Marks
	University Examination	Internal Assessment	Total		
FACULTY OF SCIENCE					
BRANCH I (a) MATHEMATICS					
Elective I (Code – M.4.1.)	67	24	91	40	100
Elective II (Code – M.4.6.)	40	23	63	40	100
Elective III (Code – M.4.13)	64	24	88	40	100
Elective IV (Code – M.4.11.)	36	22	58	40	100
Elective V (Code – M.4.15)	72	25	97	40	100
Project Work	65	24	89	40	100
Comprehensive Viva – Voce			70	40	100
Total IV Semester			556	280	700
Marks Carried forward from I Semester			374	200	500
Marks Carried forward from II Semester			371	200	500
Marks Carried forward from III Semester			337	200	500
Grand Total			1638	880	2200
Grand Total In Words	One Six Three Eight				

Elective Code : M.4.1. Fuzzy Mathematics, M.4.2. Algorithmic Graph Theory, M.4.3. Coding Theory, M.4.4 Theory of Wavelets, M.4.5. Commutative Algebra, M.4.6. Mathematical Statistics, M.4.7. Algebraic Number Theory, M.4.8. Analytic Number Theory, M.4.9. Internet & Java Programming, M.4.10. Combinatorics, M.4.11. Operations Research, M.4.12. Signal Theory, M.4.13. Algebraic Topology, M.4.14. Classical Mechanics, M.4.15. Mathematical Economics, M.4.16. Mathematical Modelling.

Maximum Marks — University Examination — 75, Internal Assessment — 25

UNIVERSITY OF KERALA

Book No. 15

Serial No. 30

No. E. D. III

Thiruvananthapuram,

Dated 3 0 MAY 200 200 .

MEMORANDUM

The following marks were awarded to Shri / Smt. **Salini . C. G**

at the Final Year B. Sc. Degree Examination of April / ~~October~~ 2003.

Register Number **507031**

Subjects	Marks awarded	In words	Minimum for a pass	Maximum Marks
PART III — OPTIONAL SUBJECTS				
(a) **Mathematics** Main				
1. Written Examination	459			530/520
Internal assessment	80			70/80
Total for Main	539	Five Three nine	210	600
(b) Subsidiary Subjects				
1. Statistics	190	one nine zero	70	200
2. Physics	163	One Six Three	70	200
Total for Part III	892	Eight nine two	350	1000

Prepared by

Marks checked by

Section Officer

Controller of Examinations

K. U. P. 299 / 2002-'03 100 x 60 bks.

15

UNIVERSITY OF KERALA

KERALA UNIVERSITY COLLEGE OF TEACHER EDUCATION, ADOOR

No. 11

Academic Year 2005-'06

TRANSFER CERTIFICATE

Admission No. 3632

Name of Student Salini. C. G.

Date of Birth as entered in the Admission Register (in words and figures) — 8. 4. 1983 Eighth April Nineteen Eighty Three

Admitted on 18. 06. 2005

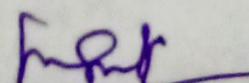Left on 09. 05. 2006

Optional Subject Mathematics

Whether completed the course of study Yes

Whether presented for the University Examination Yes

Whether all the dues have been paid Yes

Place Adoor

Date 9/5/2006

PRINCIPAL

M.K.G.A.M.
HIGHER SECONDARY SCHOOL

MANNADY P.O., Pin - 691 530

Ph : 04734-222495

Date ....

From,

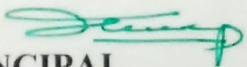   The Manager/Principal

To,

Sub:-

Ref:-

CERTIFICATE

Certified that Ms: Salini,C.G., daughter of Sri: J.Gopinathan,

Kulamamvila Veedu,Kulakkada East. P.O.,was working as

Lecturer in Mathematics in this Institution for the period from

4.6.2007. to 31.3.2008. During her tenure she was diligently carrying

out her work to our entire satisfaction.

Mannady

23.7.2008.

PRINCIPAL

K. R, GOPALAKRISHNA KURUP
PRINCIPAL
M.K.G.A.M.HIGHER SECONDARY SCHOOL
MANNADY P.O,   PIN- 691 530

MZC/244/2012   Date: 06.03.2012

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. SALINI C G**,   Thottappuzhayattil, Thonnalloor, Pandalam P.O., Pathanamthitta Dist., Kerala has been working in this institution from 4th August, 2008 to 05th March, 2012 as Lecturer in Mathematics in the **Basics Department**.   During her tenure, I have found her to be hardworking, sincere and efficient. She proved herself to be a good teacher.

She is leaving the institution on her own. I wish her all success in her future endeavours.

PRINCIPAL

Principal
Mount Zion College of Engineering
Kadammanitta

Musaliar

MCET/A1/07-2016   29.07.2016

EXPERIENCE CERTIFICATE

This is to certify that Mrs Salini C.G, Thottappuzhayattil, Thonnalloor, Pandalam

P.O, Pathanamthitta was working as an Assistant Professor in Department of

Mathematics of this College from 05.03.2012 to 29.07.2016. Her conduct and

character is good.

This certificate is issued on her request.

PRINCIPAL

PRINCIPAL
Musaliar College of Engineering &
Technology, Pathanamthitta

MUSALIAR COLLEGE
OF ENGINEERING
AND TECHNOLOGY
PATHANAMTHITTA

SREE NARAYANA INSTITUTE OF TECHNOLOGY ®

Approved to AICTE, New Delhi & Affiliated to APJ Abdul Kalam Technological University

Theppupara .P.O, Adoor, Pathanamthitta (Dist.), Kerala - 691554

Ph: 04734-244600,244700 Fax: 04734-243400

www.snit.edu.in, Email: info@snit.edu.in

An ISO 9001: 2008 Certified Institution

Managed by: Pattayil Kunjukunju Memorial Charitable Trust, Adoor

Date:04.10.2019

EXPERIENCE CERTIFICATE

This is to certify that Mrs Salini C G, Thottappuzhayattil, Thonnallor, Pandalam P O, Pathanamthitta was working as an Assistant Professor in Department of Basic Science of this college from 01.08.2016 to 04.10.2019. During her tenure, I have found her to be hardworking, sincere and efficient. Her conduct and character are good.

PRINCIPAL

Dr. J. George Chellin Chandran.,
B.E., M.E., Ph.D., PGDBM
Sree Narayana Institute of Technology
Theppupara P.O, Adoor
Pathanamthitta,Kerala-691554

आयकर विभाग

INCOME TAX DEPARTMENT

भारत सरकार

GOVT. OF INDIA

SALINI C G

GOPINATHAN

08/04/1983

Permanent Account Number

BOTPG2841H

Salini

Signature

ശാലിനി സീ ജീ
Salini C G
ജനന വർഷം / Year of Birth : 1983
സ്ത്രീ / Female

2127 3260 9913