



# MANGALORE UNIVERSITY

(Accredited by NAAC)

DEPARTMENT OF POST GRADUATE STUDIES AND RESEARCH IN STATISTICS

## STATISTICS ASSOCIATION

**Two days Webinar on Topical Expansion of Statistics and its Applications**

**On 29<sup>th</sup> and 30<sup>th</sup> June 2022**

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### REPORT OF WEBINAR

*Number of participants registered: 106*

*Number of participants attended: 96*

*Platform: Google meet: <https://meet.google.com/xnv-uzkw-meg>*

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#### **Day 1**

Two days National level webinar on the topic “**Topical Expansion of Statistics and its Applications**” was organized by Department of PG Studies and Research in Statistics, Mangalore University, Mangalagangothri on the occasion of **National Statistics Day-2022** on 29<sup>th</sup> and 30<sup>th</sup> June 2022. The webinar intended to popularize the use of Statistics in everyday life and sensitize the public as to how Statistics helps in shaping and framing the policies.

The webinar was inaugurated by Prof. Ishwara P, Chairman, Department of PG Studies and Research in Statistics on 29<sup>th</sup> June 2022. He briefed about the current activities of the department and spoke about the use of the statistics in his inaugural address.

The invited speaker of the first session, **Prof. Nagaraj K. Neerchal**, Professor, Department of Mathematics and Statistics, Director of Center for Interdisciplinary Research and Consulting, UMBC;USA gave a presentation about Prof. P.C. Mahalanobis and his contributions to the field of statistics. Thereafter, Prof. Neerchal shed light on the uses of statistics in the current scenario. The audience got more information about Prof. P.C. Mahalanobis and motivated to take courses in statistics. Prof. K.K. Achary, Retired Professor of Statistics, Mangalore University added some more information about Prof. P.C.

Mahalanobis while interacting with invited speaker. Dr. Harsha S, Guest Faculty of the department introduced the invited speaker to the august gathering.

### **CONTRIBUTORY SESSION**

Following candidates presented their papers in the webinar. The session was chaired by Dr. Dileep Kumar Shetty, Assistant Professor, St. Joseph's College of Commerce, Bangalore.

#### Candidate Name and paper name:

1. SHRUTHI, *Statistics for finance: how statistics is helping the company to grow their finance.*
2. Subarna Bhattacharjee, *Aging properties of Weibull Models: A review.*
3. Vinitha Serrao, *Test for Autocorrelation in Regression Model using Least Square Ratio Residuals.*
4. Dr. C M Math, *A New Test procedure for testing Exponentiality Against NBU Alternatives.*

### **Day 2**

The invited speaker of second day, **PROF.HAIKADY N. NAGARAJA**, Professor Emeritus, College of Public Health Cunz Hall, Neil Avenue Columbus delivered a talk on the topic entitled "*Biostatistics: Backbone of Biosciences*". The audience got more information about role of biostatisticians in medical research from his talk and enjoyed the presentation. Ms. Sukshitha R introduced the invited speaker to the audience.

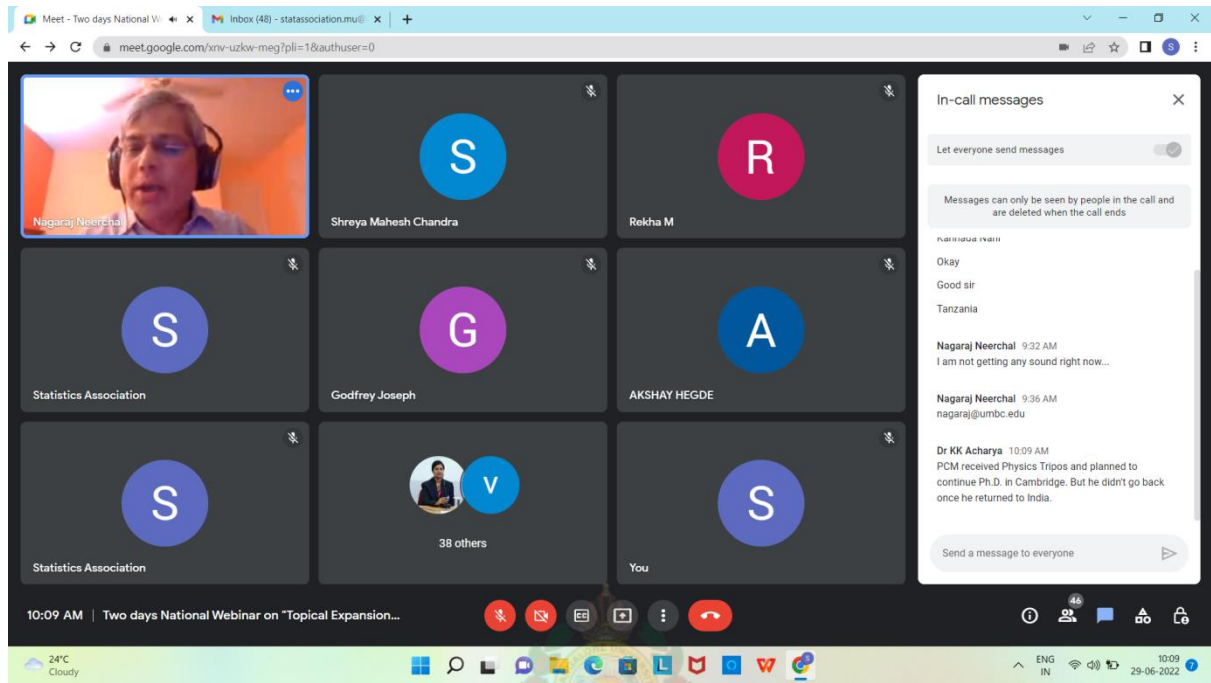
102 participants (Academicians, Teachers, Researchers and Students) from Karnataka, Kerala, Odhisa and Tamilnadu were participated in the webinar. The participants opined that the presentation given by two esteemed professors of statistics was subjective and informative.

Ms. Preethi Jayarama Shetty, Guest Faculty of the department handled the technical issues throughout the webinar. Ms. Prajna R, Staff advisor of the statistics association delivered vote of thanks and concluded Two days National level webinar.

**Day- 1**

**29<sup>th</sup> June 2022**

**INVITED TALK (SESSION –I)**



*Invited speaker, Prof. Nagaraj K. Neerchal, Professor, Department of Mathematics and Statistics, Director of Center for Interdisciplinary Research and Consulting, UMBC;USA gave a presentation about Prof. P.C. Mahalanobis and his contributions to the field of statistics.*

Meet - Two days National Webinar on "Topical Expansion..." | 10:07 AM

Inbox (48) - statassociation.mu

meet.google.com/xnv-uzkw-meg?pli=1&authuser=0

Nagaraj Neerchal is presenting

### Highest Honors

1968

1993

2018

The Prophet of Statistics : PC Mahalanobis

Nagaraj K Neerchal

In-call messages

Let everyone send messages

Messages can only be seen by people in the call and are deleted when the call ends

Godfrey Joseph 9:29 AM  
Kannada Nahi  
Okay  
Good sir  
Tanzania

Nagaraj Neerchal 9:32 AM  
I am not getting any sound right now...

Nagaraj Neerchal 9:36 AM  
nagaraj@umbc.edu

Send a message to everyone

24°C Cloudy

ENG IN 10:07 29-06-2022

Meet - Two days National Webinar on "Topical Expansion..." | 10:08 AM

Inbox (48) - statassociation.mu

meet.google.com/xnv-uzkw-meg?pli=1&authuser=0

Nagaraj Neerchal is presenting

### Indian Statistical Institute

मिन्नेष्वैक्यस्य दर्शनम्

The Prophet of Statistics : PC Mahalanobis

Nagaraj K Neerchal

In-call messages

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Godfrey Joseph 9:29 AM  
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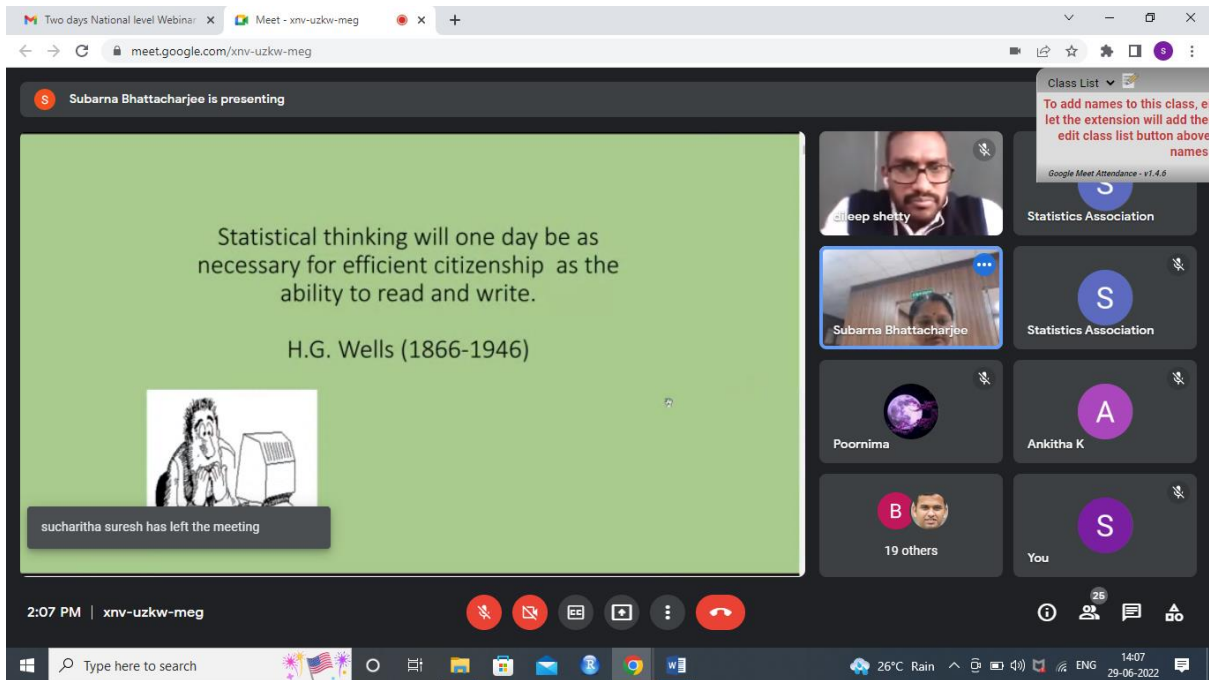
Nagaraj Neerchal 9:36 AM  
nagaraj@umbc.edu

Send a message to everyone

24°C Cloudy

ENG IN 10:08 29-06-2022

## CONTRIBUTORY SESSION

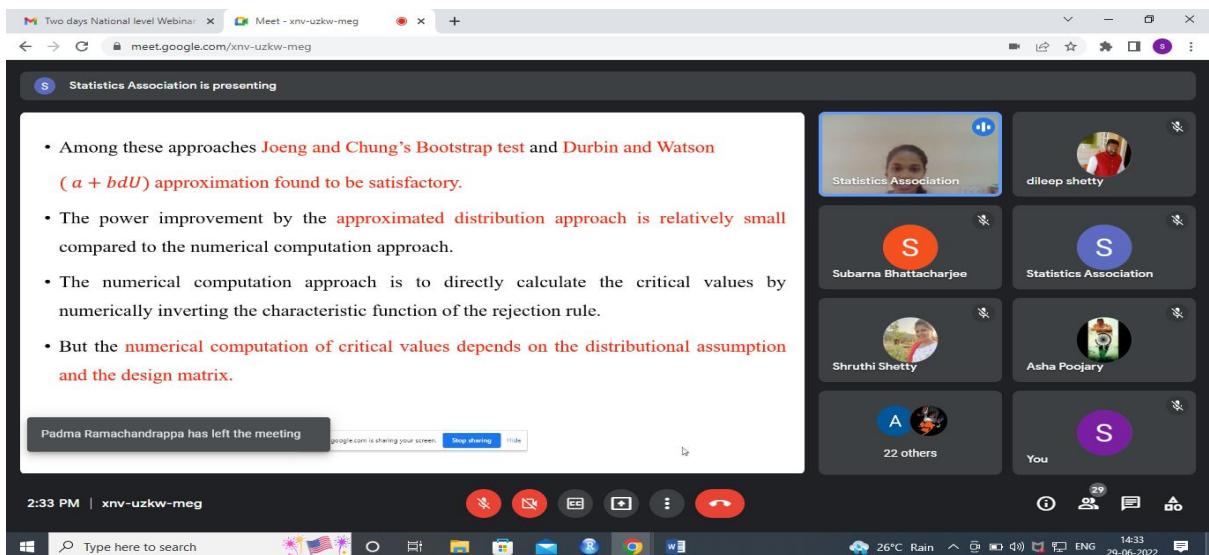


The screenshot shows a Google Meet interface. The main window displays a presentation slide with a green background. The slide text reads: "Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write. H.G. Wells (1866-1946)". Below the text is a small illustration of a man sitting at a desk with a typewriter. A notification at the bottom of the slide says "sucharitha suresh has left the meeting". The top of the slide indicates "Subarna Bhattacharjee is presenting".

On the right side, there is a grid of participant thumbnails. The top row shows "dileep shetty" and "Subarna Bhattacharjee". Below them are "Poornima", "Ankitha K", "19 others", and "You". A "Class List" button is visible at the top right of the grid, with a tooltip that says: "To add names to this class, edit the extension will add the edit class list button above names".

The bottom of the screen shows the Windows taskbar with the time 2:07 PM, the meeting ID "xnv-uzkw-meg", and system icons for weather (26°C Rain) and date (29-06-2022).

*Dr. Dileep Kumar Shetty, Assistant Professor, St. Joseph's College of Commerce, Bangalore, chairing the contributory session.*



The screenshot shows a Google Meet interface. The main window displays a presentation slide with a white background. The slide contains a list of bullet points:

- Among these approaches **Joeng and Chung's Bootstrap test** and **Durbin and Watson** ( $\alpha + bDU$ ) approximation found to be satisfactory.
- The power improvement by the **approximated distribution approach** is relatively small compared to the numerical computation approach.
- The numerical computation approach is to directly calculate the critical values by numerically inverting the characteristic function of the rejection rule.
- But the **numerical computation of critical values depends on the distributional assumption and the design matrix.**

A notification at the bottom of the slide says "Padma Ramachandrappa has left the meeting". The top of the slide indicates "Statistics Association is presenting".

On the right side, there is a grid of participant thumbnails. The top row shows "Statistics Association" and "dileep shetty". Below them are "Subarna Bhattacharjee", "Shruthi Shetty", "Asha Poojary", "22 others", and "You".

The bottom of the screen shows the Windows taskbar with the time 2:33 PM, the meeting ID "xnv-uzkw-meg", and system icons for weather (26°C Rain) and date (29-06-2022).

Shruthi Shetty is presenting

**Statistics for finance:  
how statistics is helping  
the company to grow  
their finance.**

SHRUTHI  
Faculty of commerce and Management  
U. G centre of Mangalore University  
University First Grade College Mangalagangothri.  
shetty\_shruthi33@gmail.com  
8904049247

To return to your call, open Meet

Akshara Ns has left the meeting

Shruthi Shetty

2:42 PM | Two days National Webinar on "Topical Expansion o...

26°C Cloudy

14:42 29-06-2022

Day- 2

30<sup>th</sup> June 2022

INVITED TALK (SESSION –II)



Statistics Association is presenting

**Study Designs  
-Observational Studies**

A. Case-series or descriptive  
B. Case-control studies (retrospective)  
C. Cross-sectional studies, surveys (prevalence)  
D. Cohort studies (prospective)

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nagaraja.1@osu.edu...5

H. N. Nagaraja

Ms.Shwetha Kumari, Ass...

Deepthi A

Dhanuja M J

Samhitha M

harsha s Prabhu

33 others

You

9:16 AM | xnv-uzkw-meg

26°C Rain

09:16 30-06-2022




*Invited speaker, PROF.HAIKADY N. NAGARAJA, Professor Emeritus, College of Public Health Cunz Hall, Neil Avenue Columbus delivered a talk on the topic entitled “Biostatistics: Backbone of Biosciences”.*

Statistics Association is presenting

### Nominal Data Summaries

- Proportion and Percentages
- Ratio and Rate (Risk Ratio or Relative Risk; Odds Ratio; Incidence Rate)
- Examples:
  - Hypertension is twice as common in persons with diabetes as it is in others.
  - Cancer incidence rate in the US is 442.4 per 100,000 men and women per year (based on 2013–2017 cases).

THE OHIO STATE UNIVERSITY



H. N. Nagaraja

- Aswini Narayanan
- KAVYA PV
- Ms.Shwetha Kumar...
- SAHANA S POOJARY
- Samhitha M
- Nausheeda B S
- 39 others
- You

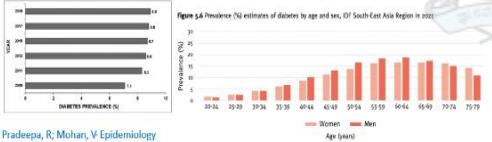
Class List

To add names to this class, edit the extension will add them edit class list button above

xnv-uzkw-meg

Statistics Association is presenting

### Trends - Prevalence of Diabetes in India



Pradeepa, R, Mohan, V Epidemiology of type 2 diabetes in India, Indian Journal of Ophthalmology-2021 – 69(11) p 2932-2938

IDF\_Atlas\_10th\_Edition\_2021.pdf

Raw Prevalence vs standardized (age-adjusted) prevalence.

MU Webinar, June 30, 2022 THE OHIO STATE UNIVERSITY nagaraja.1@osu.edu...21

- Aswini Narayanan
- KAVYA PV
- Ms.Shwetha Kumar...
- SAHANA S POOJA...
- Samhitha M
- Nausheeda B S
- H. N. Nagaraja
- 40 others
- You

9:43 AM | xnv-uzkw-meg







*Participants (Students of Department of Post Graduate Studies and Research in Statistics, Mangalore University) attending the webinar.*

