

# JOINT RESEARCH & DEVELOPMENT CENTER (JRDC)



**SHRI KRISHNA AYUSH UNIVERSITY, KURUKSHETRA**

Umri Road, Sector 8, Kurukshetra, Haryana – 136118

&

**INSTITUTE OF APPLIED STATISTICS, KANPUR**

A Statistical Training & Research Institute

*Jointly Organizing*



One-Month Online Certificate Programme in

## Statistical Analysis for Healthcare Research using Excel & Jamovi



01<sup>st</sup> August – 31<sup>st</sup> August, 2026



Live Session : 06:00 PM to 07:30 PM

*In Collaboration with*



**CENTRAL COUNCIL FOR RESEARCH IN  
AYURVEDIC SCIENCES (CCRAS), NEW DELHI**



**NATIONAL COMMISSION FOR  
INDIAN SYSTEM OF MEDICINE (NCISM), NEW DELHI**

*Under*

## MAHARSHI CHARAK AYURVEDA RESEARCH & DEVELOPMENT SCHEME

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Shri Krishna AYUSH University  
Kurukshetra, Haryana

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Institute of Applied Statistics  
Kanpur, Uttar Pradesh

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Kurukshetra, Haryana

**National Coordinator**



**Dr. Seema Dwivedi**  
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R&D Scheme

**State Coordinator**



**Dr. Prerna Sharma**  
Assistant Professor  
Research & Innovation  
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Kurukshetra, Haryana

**Organizing Secretary**



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**Project Coordinator**



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**Programme Coordinator**



**Dr. Anamika**  
Dept. of Shalya Tantra  
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Shri Krishna AYUSH University  
Kurukshetra, Haryana

# One-Month Online Certificate Programme in Statistical Analysis for Healthcare Research using Excel & Jamovi



## ABOUT CERTIFICATE PROGRAMME

This intensive one-month online certificate programme is designed to provide participants with strong conceptual and practical foundations in biostatistics, statistical analysis, and research data interpretation using SPSS and Jamovi/JASP. The programme integrates research methodology, exploratory data analysis, inferential statistics, regression modeling, and publication-oriented reporting with hands-on software training. The curriculum is specially tailored for healthcare, medical, AYUSH, nursing, public health, and interdisciplinary researchers aiming to strengthen their evidence-based research and data analysis skills.

## OBJECTIVE

**By the end of the programme, participants will be able to:**

- Understand core concepts of biostatistics and healthcare research
- Identify appropriate statistical methods based on research questions and data types
- Perform data coding, cleaning, and exploratory data analysis
- Conduct parametric and non-parametric statistical tests
- Interpret outputs scientifically
- Perform correlation and regression analysis
- Write publication-oriented statistical result sections
- Apply statistical reasoning in healthcare and AYUSH research

## WHO SHOULD ATTEND?

- Medical Faculty & Researchers
- AYUSH Faculty & Scholars
- Nursing & Allied Health Professionals
- PhD & PG Scholars
- Public Health Researchers
- Clinical Researchers
- Beginners in Biostatistics & Data Analysis

## PREREQUISITES

- Basic understanding of research methodology is desirable
- No prior programming knowledge required
- No prior experience with Jamovi necessary

## PROGRAMME FEE:

**1500/- INR Per Participant**

- **E-Certificates will be provided to all the registered participants on successful programme completion.**
- **Access of Recorded Session and PDF Notes will be provided.**

### REGISTRATION:

For registration please visit  
our official website (click link):  
[www.iasdcs.com](http://www.iasdcs.com)

OR

SCAN QR CODE

Institute of Applied Statistics



[www.iasdcs.com](http://www.iasdcs.com)



### DURATION OF THE PROGRAMME

01<sup>st</sup> August - 31<sup>st</sup> August, 2026



### SCHEDULE AND TIMINGS

06:00 to 07:30 PM (As per schedule)

### SESSIONS OFFERED ON PLATFORMS



### Program Coordinator



#### Dr. Prerna Sharma

**State Coordinator**  
**Joint R&D Center (SKAU & IAS)**  
Assistant Professor  
Research & Innovation Department  
Shri Krishna AYUSH University, Kurukshetra

#### Er. Amit Tiwari

**Organizing Secretary**  
IT Head & In-charge RD Cell  
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## PROGRAM SCHEDULE *Week 1*

### 1<sup>ST</sup> AUGUST, 2026 (SATURDAY) : INAUGURAL CEREMONY

#### WEEK 1: Foundations of Biostatistics & Research Design

| Session                      | Date                             | Topic                                              | Sub-topics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                            | 03 August 2026                   | Introduction to Biostatistics & Research Ecosystem | <ul style="list-style-type: none"> <li>Definition, scope, and evolution of Biostatistics in clinical and AYUSH systems</li> <li>Role in Evidence-Based Medicine (EBM) and decision-making hierarchy</li> <li>Types of data analysis: <ul style="list-style-type: none"> <li>Descriptive vs Inferential vs Predictive analytics</li> </ul> </li> <li>Data lifecycle: <ul style="list-style-type: none"> <li>Data collection → validation → preprocessing → analysis → interpretation → reporting</li> <li>Role of statistical thinking in reducing uncertainty in clinical decision-making</li> </ul> </li> </ul> <p><b>Hands-on</b></p> <ul style="list-style-type: none"> <li>Extract and identify: Study design, Type of variables</li> <li>Statistical tests used from 2 published research abstracts</li> </ul> |
| 2                            | 04 August 2026                   | Types of Data & Measurement Scales                 | <ul style="list-style-type: none"> <li>Classification of data: Qualitative vs Quantitative, Discrete vs Continuous</li> <li>Measurement scales: Nominal, Ordinal, Interval &amp; Ratio</li> <li>Implication of scale type on: Choice of statistical test, Data visualization</li> </ul> <p><b>Hands-on</b></p> <ul style="list-style-type: none"> <li>Classify variables from a clinical/AYUSH dataset</li> <li>Create a variable classification matrix</li> </ul>                                                                                                                                                                                                                                                                                                                                                  |
| 3                            | 05 August 2026                   | Variables, Hypothesis & Research Questions         | <ul style="list-style-type: none"> <li>Types of variables: Independent, dependent, Confounders, mediators, moderators</li> <li>Framing research questions using PICO framework</li> <li>Hypothesis formulation: Null hypothesis (<math>H_0</math>), Alternative hypothesis (<math>H_1</math>)</li> <li>Directional vs non-directional hypotheses</li> </ul> <p><b>Hands-on</b></p> <p>Convert: Clinical problem → structured research question → hypothesis formulation</p>                                                                                                                                                                                                                                                                                                                                         |
| 4                            | 06 August 2026                   | Study Designs in Medical Research                  | <ul style="list-style-type: none"> <li>Observational designs: Cross-sectional, case-control, cohort</li> <li>Experimental designs: RCT, Quasi-experimental studies</li> <li>Concepts of Internal validity vs External validity &amp; Bias vs confounding</li> </ul> <p><b>Hands-on</b></p> <ul style="list-style-type: none"> <li>Map: Study design → appropriate statistical test &amp; Identify design limitations</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                     |
| 5                            | 07 August 2026                   | Sampling, Bias & Sample Size Basics                | <ul style="list-style-type: none"> <li>Sampling techniques: <ul style="list-style-type: none"> <li>Probability: simple random, stratified, cluster</li> <li>Non-probability: convenience, purposive</li> </ul> </li> <li>Types of bias: Selection bias, measurement bias, recall bias</li> <li>Sample size fundamentals: Alpha (<math>\alpha</math>), Beta (<math>\beta</math>), power (<math>1-\beta</math>), effect size</li> <li>Statistical significance vs clinical significance</li> </ul> <p><b>Hands-on</b></p> <ul style="list-style-type: none"> <li>Identify bias in given research scenarios</li> <li>Conceptual demonstration of sample size impact</li> </ul>                                                                                                                                         |
| <b>Practice Assignment 1</b> | 03 August 2026 to 09 August 2026 | Research Conceptualization Assignment              | <p><b>Task Components:</b></p> <ul style="list-style-type: none"> <li>Select one research topic (clinical / AYUSH / public health)</li> <li>Define: Type of data (qualitative/quantitative) &amp; Variables (independent, dependent, confounders)</li> <li>Frame: Research question using PICO model &amp; Null &amp; alternative hypothesis</li> <li>Identify: Appropriate study design &amp; Possible biases and control strategies</li> </ul> <p><b>Submission Format: 1-2 pages (Word/PDF)</b></p>                                                                                                                                                                                                                                                                                                              |

# One-Month Online Certificate Programme in Statistical Analysis for Healthcare Research using Excel & Jamovi



## PROGRAM SCHEDULE

Week 2

### WEEK 2: Data Handling & Exploratory Data Analysis

| Session                      | Date                             | Topic                                         | Sub-topics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|----------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6                            | 10 August 2026                   | Introduction to Excel & Jamovi                | <ul style="list-style-type: none"> <li>Fundamentals of Excel &amp; Jamovi</li> <li>Interface overview: Data View vs Variable View</li> <li>Variable properties: Type, label, values, missing data handling</li> <li>Dataset structuring for clinical research</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Create dataset from a questionnaire template &amp; Define variables and labels</li> </ul>                                                                        |
| 7                            | 11 August 2026                   | Data Coding & Data Cleaning                   | <ul style="list-style-type: none"> <li>Coding techniques: Nominal and ordinal variable coding, Dummy variable creation</li> <li>Missing data mechanisms: MCAR, MAR, MNAR</li> <li>Outlier detection: Z-score, boxplot</li> <li>Data transformation: Log transformation (conceptual)</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Perform: Data cleaning, Missing value handling &amp; Outlier identification</li> </ul>                                                     |
| 8                            | 12 August 2026                   | Exploratory Data Analysis (EDA)               | <ul style="list-style-type: none"> <li>Understanding data distribution</li> <li>Skewness and kurtosis interpretation</li> <li>Identifying anomalies and trends</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Generate: Histogram, Boxplot, Q-Q plot</li> <li>Interpret distribution patterns</li> </ul>                                                                                                                                                                      |
| 9                            | 13 August 2026                   | Descriptive Statistics & Reliability Analysis | <ul style="list-style-type: none"> <li>Measures of central tendency: Mean, median, mode</li> <li>Measures of dispersion: Standard deviation, variance, range, IQR</li> <li>Percentiles and quartiles</li> <li>Reliability &amp; Validity: Cronbach's Alpha, Internal consistency, Introduction to validity concepts</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Compute descriptive statistics in SPSS/Jamovi</li> <li>Generate summary tables</li> </ul>                  |
| 10                           | 14 August 2026                   | Probability, Normality & Confidence Intervals | <ul style="list-style-type: none"> <li>Basic probability principles</li> <li>Normal distribution</li> <li>Central Limit Theorem (CLT)</li> <li>Confidence intervals</li> <li>Assumption checking: Normality, Homogeneity, Independence</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Perform Normality tests (Shapiro-Wilk, K-S test)</li> <li>Confidence interval estimation</li> </ul>                                                                                     |
| <b>Practice Assignment 2</b> | 10 August 2026 to 16 August 2026 | Data Handling & Exploratory Analysis          | <b>Task Components:</b> <ul style="list-style-type: none"> <li>Create a dataset (minimum 15–20 variables, 30+ observations) (can be simulated or questionnaire-based)</li> <li>Perform: Data coding (nominal/ordinal variables) &amp; Data cleaning (missing values, outliers)</li> <li>Conduct: Descriptive statistics &amp; EDA (histogram, boxplot, Q-Q plot)</li> <li>Assess: Normality of at least 2 variables</li> </ul> <b>Submission: Jamovi file, 2–3 page summary with screenshots</b> |



# One-Month Online Certificate Programme in Statistical Analysis for Healthcare Research using Excel & Jamovi



## PROGRAM SCHEDULE *Week 3*

### WEEK 3: Hypothesis Testing & Core Statistical Methods

| Session                      | Date                             | Topic                                     | Sub-topics                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------|----------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11                           | 17 August 2026                   | Hypothesis Testing Framework              | <ul style="list-style-type: none"> <li>Steps in hypothesis testing</li> <li>p-value interpretation</li> <li>Statistical vs clinical significance</li> <li>One-tailed vs two-tailed testing</li> <li>Statistical vs clinical significance</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Execute hypothesis testing workflow on dataset</li> </ul>                                                                                                               |
| 12                           | 18 August 2026                   | Errors, Power & Test Selection            | <ul style="list-style-type: none"> <li>Type I error (<math>\alpha</math>) and Type II error (<math>\beta</math>)</li> <li>Statistical power</li> <li>Effect size interpretation</li> <li>Decision tree for test selection based on: Data type, Distribution, Number of groups</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Apply decision tree for selecting statistical tests</li> </ul>                                                                     |
| 13                           | 19 August 2026                   | t-tests (One-Sample, Paired, Independent) | <ul style="list-style-type: none"> <li>Comparing means</li> <li>Assumptions: Normality, Independence &amp; Homogeneity of variance</li> <li>Effect size (Cohen's d)</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Perform: One-sample t-test, Paired t-test, Independent t-test</li> <li>Interpret SPSS/Jamovi output</li> </ul>                                                                                                                               |
| 14                           | 20 August 2026                   | Correlation Analysis                      | <ul style="list-style-type: none"> <li>Pearson correlation</li> <li>Spearman correlation</li> <li>Strength and direction of association</li> <li>Correlation vs causation</li> <li>Scatterplot interpretation</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Generate correlation matrix</li> <li>Create and interpret scatterplots</li> </ul>                                                                                                                  |
| 15                           | 21 August 2026                   | ANOVA (One-Way & Repeated Measures)       | <ul style="list-style-type: none"> <li>Variance decomposition</li> <li>F-statistic interpretation</li> <li>Assumptions of ANOVA</li> <li>Post-hoc tests: Tukey, Bonferroni</li> <li>Repeated measures ANOVA</li> <li>Sphericity (Mauchly's test)</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Perform ANOVA and post-hoc analysis</li> <li>Interpret output and plots</li> </ul>                                                                              |
| <b>Practice Assignment 3</b> | 17 August 2026 to 23 August 2026 | Statistical Testing Assignment            | <b>Task Components:</b> <ol style="list-style-type: none"> <li>Using the dataset from Week 2, Formulate at least 3 hypotheses</li> <li>Perform: One t-test / ANOVA, One correlation analysis</li> <li>Justify: Why the selected test is appropriate</li> <li>Interpret: p-value, confidence interval, effect size (if applicable)</li> <li>Write: Result section (publication style)</li> </ol> <b>Submission: Output file (Jamovi/Excel) &amp; 2-3 page interpretation report</b> |



# One-Month Online Certificate Programme in Statistical Analysis for Healthcare Research using Excel & Jamovi



## PROGRAM SCHEDULE

Week 4

### WEEK 4: Advanced Methods & Research Application

| Session                      | Date                             | Topic                                         | Sub-topics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16                           | 24 August 2026                   | Non-Parametric Tests                          | <ul style="list-style-type: none"> <li>When to use non-parametric methods</li> <li>Mann-Whitney U test</li> <li>Wilcoxon Signed Rank test</li> <li>Kruskal-Wallis and Friedman test</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Perform non-parametric tests</li> <li>Compare with parametric outputs</li> </ul>                                                                                                                                                                                              |
| 17                           | 25 August 2026                   | Chi-square & Categorical Analysis             | <ul style="list-style-type: none"> <li>Association between categorical variables</li> <li>Expected frequency concept</li> <li>Assumptions of Chi-square</li> <li>Fisher's Exact test</li> <li>Odds ratio interpretation</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Cross-tabulation</li> <li>Chi-square test execution</li> </ul>                                                                                                                                                                            |
| 18                           | 26 August 2026                   | Regression Analysis                           | <ul style="list-style-type: none"> <li>Linear regression: Equation, coefficients, <math>R^2</math> and Adjusted <math>R^2</math></li> <li>Logistic regression: Odds Ratio, Probability interpretation</li> <li>Assumptions: Linearity, Multicollinearity, Independence</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Perform regression analysis</li> <li>Interpret coefficients and model fit</li> </ul>                                                                                                       |
| 19                           | 27 August 2026                   | Model Evaluation & ROC Curve                  | <ul style="list-style-type: none"> <li>Model performance metrics: Sensitivity, Specificity, Predictive values</li> <li>ROC curve and Area Under Curve (AUC)</li> <li>Diagnostic accuracy</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Generate ROC curve</li> <li>Interpret model performance</li> </ul>                                                                                                                                                                                                       |
| 20                           | 29 August 2026                   | Research Reporting & Integrated Data Analysis | <ul style="list-style-type: none"> <li>Writing statistical results &amp; Publication-oriented interpretation</li> <li>Reporting standards: APA, CONSORT, STROBE</li> <li>Reporting: p-values, Confidence intervals &amp; Effect sizes</li> <li>Tables and graphical presentation</li> <li>Interpretation vs conclusion</li> </ul> <b>Hands-on</b> <ul style="list-style-type: none"> <li>Complete end-to-end dataset analysis</li> <li>Convert statistical output → publication-ready results section</li> </ul>                    |
| <b>Practice Assignment 4</b> | 24 August 2026 to 30 August 2026 | Advanced Methods & Research Application       | <b>Task Components:</b> <ol style="list-style-type: none"> <li>Use your dataset (or improved version)</li> <li>Perform: One parametric or non-parametric test, One categorical analysis (Chi-square), One regression analysis, Optional: ROC curve</li> <li>Include: Data summary tables &amp; Graphs/plots</li> <li>Write: Structured Results section &amp; Brief Conclusion</li> <li>Ensure: Proper interpretation (not just software output)</li> </ol> <b>Submission: Jamovi/Excel file &amp; 4-5 page mini research report</b> |

**31<sup>ST</sup> AUGUST - 1<sup>ST</sup> SEPTEMBER : ASSESSMENT TEST**



# One-Month Online Certificate Programme in Statistical Analysis for Healthcare Research using Excel & Jamovi



## ABOUT ORGANIZERS JOINT RESEARCH & DEVELOPMENT CENTER (JRDC)



### SHRI KRISHNA AYUSH UNIVERSITY KURUKSHETRA, HARYANA

Shri Krishna AYUSH University Act, 2016 vide No. 25 of 2017 vide Gazette notification No. Leg. 27/2017 dated 25th September, 2017 to incorporate a University in the State for the purpose of teaching affiliating and ensuring proper and systematic instructions, training and research in Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homeopathy system of medicines to achieve excellence in these and connected fields. Global acceptance of AYUSH system of medicine for creating a complete state of Physical, Mental, Social and Spiritual Wellbeing through the premier education provided to Under-Graduate & Post-Graduate leaders of the Nation and providing wealth of knowledge to the nation through research based on natural resources in the most natural way.



### INSTITUTE OF APPLIED STATISTICS, KANPUR, UTTAR PRADESH

The Institute of Applied Statistics is a premier institution dedicated to building human resource capacity in Statistics through specialized training and multidisciplinary research. It conducts training programmes across the country and regularly organizes International, National, State, and Institutional level workshops for researchers and academicians.

The Institute's mission is to develop skilled professionals to meet emerging research challenges. It offers short- and medium-term programmes, develops need-based training modules in collaboration with experts, and provides consultation to government and private sectors in training design, survey implementation, and research activities.

### In Collaboration with



### CENTRAL COUNCIL FOR RESEARCH IN AYURVEDIC SCIENCES, NEW DELHI

The Central Council for Research in Ayurvedic Sciences (CCRAS) in New Delhi is the apex autonomous body under the Ministry of Ayush, Government of India. It is primarily responsible for formulating, coordinating, and promoting scientific research in Ayurveda and Sowa-Rigpa systems of medicine.

The Central Council for Research in Ayurvedic Sciences (CCRAS) comprises a network of 30 institutes across different regions of India. These institutes are crucial in advancing Ayurvedic research, education, and healthcare practices. With a strong presence throughout the country, CCRAS institutes contribute to preserving, promoting, and disseminating Ayurvedic knowledge.



### NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE, NEW DELHI

The National Commission For Indian System Of Medicine is the statutory body constituted under NCISM Act, 2020 vide gazette notification extraordinary part (ii) section 3(ii) dated 21.09.2020.

The Aims and objectives of the National Commission for Indian System of Medicine are to Improve access to quality and affordable Ayurveda, Unani, Siddha and Sowa-Rigpa (AUS&SR) medical education, Ensure availability of adequate and high quality AUS&SR medical professionals in all parts of the country, Promote equitable and universal healthcare that encourages community health perspective and makes services of AUS&SR medical professionals accessible to all the citizens & Encourage medical professionals to adopt latest medical research in their work and to contribute to research.

## CERTIFICATE PROGRAMME HIGHLIGHTS

- ✓ Comprehensive live sessions on Statistical Analysis for Healthcare Research using Excel & Jamovi.
- ✓ Scientific session and query discussions during each session during the programme to address doubts.
- ✓ Online Assessment Tests at the end of the programme for E-Certification.
- ✓ Online Quiz at the end of each session & Weekly Practice Assignment for revision and practice purpose.
- ✓ Study material in the form of PDFs will be shared with all registered participants of the programme.
- ✓ All registered participants will receive an e-certificate after completion of the programme on their registered email ID.
- ✓ Access to all recorded sessions of the programme for revision purposes.
- ✓ Opportunity to network with researchers and professionals.

