

# PROGRAMME

## Training-Workshop on Basic and Intermediate Statistics: Analysis, Interpretations, and Sensemaking via Open-Source Statistical Freewares

September 11-13, 2025 | The Orchard Hotel Baguio, Baguio City

At the end of the training, participants are expected to:

1. Demonstrate competence in performing basic and intermediate statistical analyses (e.g., t-tests, ANOVA, correlation, regression) using open-source software such as JASP or Jamovi.
2. Interpret statistical outputs correctly and translate findings into meaningful conclusions applicable to research and classroom assessment.
3. Appreciate the value of open-access statistical tools as viable alternatives to commercial packages for sustainable, inclusive, and research-oriented academic work.

### DAY 1

**September 11, 2025**

*Arrival of Participants*

*Individual Exploration of Baguio City*

### DAY 2

**September 12, 2025**

8:00am – 9:00am	Registration Distribution of Training Kit
9:01am – 9:10am	Invocation National Anthem
9:11am – 9:20am	Opening Remarks
9:21am – 9:30am	Introduction of the Resource Speaker <b>DR. JOHN VIANNE MURCIA</b> Director of the Research Development and Publication Office (RDPO) Head of Institutional Accreditations Jose Maria College Foundation, Inc.

### BASIC STATISTICAL FOUNDATIONS AND SOFTWARE ORIENTATION

9:31am – 10:30am	<b>Session 1: Understanding Data Structures and Basic Statistical Thinking</b> <ul style="list-style-type: none"><li>▪ Types of Data and Variables</li><li>▪ Scales of Measurement</li><li>▪ Data Entry and Coding in JASP and JAMOVI</li></ul>
10:31am – 12:00am	<b>Session 2: Descriptive Statistics and Data Visualization</b> <ul style="list-style-type: none"><li>▪ Measures of Central Tendency and Dispersion</li><li>▪ Generating Tables and Graphs in JASP and JAMOVI</li><li>▪ Interpreting Outputs for Decision-Making</li></ul>

### VISION

A community of ethical and scholarly publishing practitioners.

### MISSION

We commit to advance the professional expertise of the scholarly publishers, editors and reviewers; to provide expert services in scholarly journals; to promote publication ethics in scholarly journals; and to support various causes in the promotion, development and advancement of scientific publication.

12:01nn – 1:00pm	LUNCH BREAK
1:01pm – 3:00pm	<b>Session 3: Inferential Statistics I: Estimation and Hypothesis Testing</b> <ul style="list-style-type: none"> <li>Confidence Intervals and Effect Sizes</li> <li>One-Sample and Two-Sample t-tests</li> <li>Application and Output Analysis in JASP and JAMOV</li> </ul>
3:01pm – 4:30pm	<b>Session 4: Assumptions Testing and Parametric Test Diagnostics</b> <ul style="list-style-type: none"> <li>Normality, Homoscedasticity, and Independence</li> <li>Tools: Shapiro-Wilk, Levene's Test, Q-Q Plot</li> <li>Visuals and Diagnostics in JAMOV and JASP</li> </ul>
4:31pm – 5:00pm	Day 1 Synthesis and Open Forum
<b>DAY 3</b> <b>September 13, 2025</b>	
8:00am – 9:00am	Registration
9:01am – 9:10am	Invocation National Anthem
<b>ADVANCED APPLICATIONS AND FACTOR ANALYSIS</b>	
9:11am – 9:40am	<b>Recap of EFA and its applications</b>
9:41am – 10:30am	<b>Session 5: Non-Parametric Alternatives</b> <ul style="list-style-type: none"> <li>Mann-Whitney U, Wilcoxon Signed-Rank, Kruskal-Wallis H</li> <li>Spearman's Rank Correlation</li> <li>Applications and Output Interpretation in JAMOV and JASP</li> </ul>
10:31am – 12:00nn	<b>Session 6: Reliability Statistics for Instrument Validation</b> <ul style="list-style-type: none"> <li>Cronbach's Alpha and Item-Total Correlation</li> <li>Practical Demonstration using JASP and JAMOV</li> <li>Improving Instrument Consistency</li> </ul>
12:01nn – 1:00pm	LUNCH BREAK
1:01pm – 3:00pm	<b>Session 7: Exploratory Factor Analysis (EFA) using JAMOV and JASP</b> <ul style="list-style-type: none"> <li>Assumptions, KMO, Bartlett's Test</li> <li>Factor Extraction (PCA, Maximum Likelihood)</li> <li>Rotation Methods (Varimax, Oblimin)</li> <li>Interpretation of Factor Loadings and Scree Plot</li> </ul>
3:01pm – 4:30pm	<b>Session 8: Communalities, Residuals, and Model Fit in Factor Analysis</b> <ul style="list-style-type: none"> <li>Understanding Model Diagnostics</li> <li>Refining Factor Models</li> <li>Reporting Factor Analysis Results for Publication</li> </ul>
4:31pm – 4:45pm	Feedback and Sharing of Insights

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4:46pm - 5:00pm

Closing Ceremonies  
Awarding of Certificates

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