



SEC Registration No.  
CN201619200



1-2F Montblanc Building  
Burgos-Chaves Sts.  
Cagayan de Oro City,  
Philippines



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# TENTATIVE TRAINING OUTLINE

## Training-Workshop on Statistics for Research Teachers, Advisers, and Panelists in Multidisciplinary Fields Using Open-Source Software Applications

October 29-31, 2025

*Holiday Suites, Puerto Princesa, Palawan, Philippines*

### OBJECTIVES OF THE TRAINING-WORKSHOP:

- To enhance understanding of core statistical concepts and principles as research teachers, advisers, and panelists;
- To learn the practical application of statistical methods using open-source software;
- To develop expertise in interpreting and visualizing research data; and
- To critically evaluate the role of AI applications and tools in statistical analysis.

### Requirement:

*Participants should bring a laptop and mobile/pocket wi-fi for the discussion, exercises and workshops.*

### DAY 1: 29 October 2025

8:00 am- 5:00 pm

**Arrival of Participants**

**Pre-registration and distribution of training kits**

### DAY 1: 30 October 2025

8:00 am- 9:00 am

**Registration and distribution of training kits**

9:01 am-9:15 am

Opening Program Invocation

National Anthem

Introduction to the Resource Speaker

9:16-10:30 am

2015  
Session 1

**Core Statistical Concepts**



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10:31-12:00 nn

*Data Types and Measurement Scales*  
*Descriptive and Inferential Statistics*  
*Hypothesis Testing Fundamentals*  
*Effect Size and Confidence Intervals*

Session 2

***Introduction to Open-Source Software in Statistics***

*Why use open-source software?*  
*Introduction to open-source software: JASP/JAMOV*  
*Guided Installation and tour of user interface*

12:01-1:00 pm

**LUNCH BREAK**

1:01 pm –3:00 pm

Session 3

***Data Visualization for Research***

*Principles of effective Data Visualization*  
*Choosing the right graph for the right data*  
*(bar charts, histograms, scatter plots)*

3:00 pm – 4:30 pm

Session 4

***Introduction to Inferential Statistics***

*The Logic of Hypothesis Testing: Null and Alternative*  
*Hypotheses*  
*Understanding p-values and confidence intervals*

4:31 pm – 5:00 pm

***Open Forum/Sharing New Learning and Insights***



**Day 2: 31 October 2025**

8:00 am - 8:45 am

**Registration**

8:45 am - 9:00 am

**Opening Program**

Invocation

National Anthem

Synthesis of Day 2

9:01 am – 10:30 am

Session 5

**Exploring Relationships: Correlation and Regression**

*Understanding the difference between correlation and causation*

*Simple Linear Regression: Predicting an outcome based on a single predictor*

10:31-12:00 nn

Session 6

**Non-Parametric Alternatives**

*When to use non-parametric tests?*

*Introduction to common non-parametric tests*

12:01 pm – 1:00 pm

**LUNCH BREAK**

1:01 pm – 2:30 pm

Session 7

**Interpreting Results and Writing the Research Conclusion**

*Translating statistical output into clear, concise, and defensible research findings.*

*Writing an effective results and discussion section*



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2:30 pm – 4:30 pm

Session 8

### ***Role of AI in Statistical Analysis***

*Introduction of AI applications and tools for Data analysis*

*Leveraging AI for data cleaning, pattern recognition, and hypothesis generation*

*Teaching and monitoring students in the responsible use of AI as research teachers, advisers and panelists*

4:01 pm – 5:00 pm

Feedback

Open Forum/Sharing New Learnings and Insights

Presentation of Certificates

Closing Program

### ***ASTR, Inc. Institutional Members***

