



SEC Registration No.
CN201619200



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



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Tentative Training-Workshop Outline
Training-Workshop on Recent Trends in Statistical Modeling for
Research Teachers, Advisers, and Panelists
October 28-30, 2026
Pinnacle Hotel and Suites, Davao City, Philippines

Objectives of the Training-Workshop:

- (1) To evaluate recent trends in applied statistical modeling in the social sciences, with emphasis on selecting appropriate statistical techniques based on research questions, study designs, data characteristics, and underlying assumptions;
- (2) To apply selected statistical modeling techniques using JAMovi to analyze social science research data, including model specification, assumption checking, interpretation of outputs, and presentation of results according to accepted research reporting standards; and
- (3) To critically evaluate statistical analyses and statistical software-generated outputs in research manuscripts as research teachers, advisers, and panelists.

Requirement:

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

DAY 1: October 28, 2026

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

Session 1

**Recent Trends and Emerging Directions
in Applied Statistical Modeling**

Moving beyond significance testing; effect sizes and confidence intervals; prediction vs. explanation; model-based thinking; reproducibility and transparent reporting; emerging use of AI in statistical analysis



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10:31-12:00 nn

Session 2

Choosing the Right Statistical Model for Social Science Research

Research questions and hypotheses; levels of measurement; outcome and predictor variables; selecting appropriate models; statistical assumptions; avoiding common mismatches between research questions and statistical tests

12:01-1:00 pm

LUNCH BREAK

1:01 pm – 2:30 pm

Session 3

Getting Research Data Ready for Modeling in JAMOV

Data structure and coding; importing datasets; variable types, missing data, data screening, descriptive statistics, detecting outliers and potential data-quality problems

2:31 pm – 3:30 pm

2015
Session 4

Building and Interpreting Regression Models in JAMOV

Hands-on model specification; diagnostics; interpretation of coefficients and model fit; translating JAMOV outputs into thesis/dissertation results

3:31 pm- 4:30 pm

Session 5

Beyond the p-Value: Interpreting and Reporting Statistical Models

Statistical vs. practical significance; effect sizes; Confidence intervals; model comparison; interpreting Findings without overstating results; publication-ready tables and narratives



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4:31 pm – 5:00 pm

Open Forum/Sharing New Learning and Insights

Day 2: October 29, 2026

8:00 am - 8:45 am

8:45 am - 9:00 am

Opening Program

Invocation

National Anthem

Synthesis of Day 2

9:01 am – 10:30 am

Session 6

Logistic Regression for Categorical Outcomes

Binary outcomes; odds and odd ratios; predictors; model fit and classification; interpretation of logistic regression coefficients; applications in education, behavioral, organizational, and social research

2015

10:31-12:00 nn

Session 7

Mediation and Moderation Analysis

Direct, indirect and total effects; mediation models, Moderators and interaction effects; conditional Relationships; conceptual diagrams; applications to Contemporary social science research

12:01 pm – 1:00 pm

LUNCH BREAK

1:01 pm – 3:30 pm

Session 8

Introduction to Structural Equation Modeling (SEM)

From observed variables to latent constructs; measurement and structural models; path analysis; model fit indices; interpreting standardized paths;



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when to use SEM

3:31 pm – 4:30 pm

Session 9

Statistical Modeling for Research Advising and Paneling

*Questions advisers and panelists should ask;
Evaluating sample size and model appropriateness;
recognizing overfitting, assumption violations,
inappropriate causal claims, and misinterpretation of
statistical significance*

4:31 pm – 5:00 pm

Feedback

Open Forum/Sharing New Learnings and Insights
Presentation of Certificates
Closing Program

DAY 3: October 30, 2026

9:00 am – 5:00 pm

***Post-Training Reflection and Individual
Action Planning
Individual Exploration of Davao City, Philippines
Departure of Participants***

ASTR, Inc. Institutional Members

