

Call for Proposals: Quantitative Methods Workshop Series

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The Office of the ADR is launching a new **Quantitative Methods Workshop Series** to strengthen our College's research capacity and to support faculty, staff, and graduate students in developing advanced data analysis skills.

In Academic Year 2024-2025, a quantitative needs assessment was conducted. **A (condensed) summary of the results of that survey is as follows:**



- Approximately half of HEST researchers surveyed perform quantitative analyses regularly.
 - Researchers vary widely in experience level.
 - Most use SPSS or R for their statistics, but many other programs are used as well.
 - Most perform inferential statistics ranging from basic comparisons to advanced, specialized techniques.
- Many researchers reported that they were **not** confident in their quantitative skills
 - Reasons specified included forgetting what they once knew or because they needed more training.
 - HEST researchers would benefit from periodic refresher courses on common statistical methods and software.
- HEST researchers reported interest in learning more about advanced methods.
 - Structural equation modeling was most frequently mentioned.
 - Well-timed workshops on SEM and other advanced techniques would be appropriate and useful.

To respond to HEST researchers' quantitative needs:

We are seeking proposals from faculty and staff to present interactive, hybrid-format workshops on quantitative research methods.

- Each selected presenter will receive \$500 in professional development funds.

Evaluation of proposals will be conducted on a rolling basis (at the end of each month) by the [Associate Dean of Research](#) until such time as funding is spent down. I anticipate choosing 12 proposals for Academic Year 2025-2026.

Upon review, each applicant will receive a decision indicating one of four possible outcomes: 1) Your proposal is accepted; 2) Your proposal is declined; 3) Your proposal is promising but requires revision; or 4) Your proposal is being held for review in the following month. The last category of outcomes is to be used in order to spread out the topic areas that will be covered in an attempt to select a series of workshops with breadth as well as depth.

If selected, applicants will be asked to present their workshop within 2 months of the acceptance date (ideally within 1 month), to be discussed and agreed upon with the ADR.

Workshop Goals designed to:

- Introduce or deepen knowledge in specific quantitative methods.
- Provide practical, hands-on learning opportunities for participants.
- Offer reusable resources (e.g., slides, code, datasets, or reading lists).
- Address needs identified by the needs assessment (above), where possible.

Potential Topics

- Advanced regression modeling (e.g., mixed-effects, logistic, multilevel)
- Structural equation modeling and path analysis
- Data visualization in R, Python, or other software
- Machine learning for social/behavioral science
- Longitudinal and time-series analysis
- Bayesian statistical methods
- Power analysis and sample size determination
- Multivariate analysis (PCA, factor analysis, cluster analysis)
- Survey design and analysis

Workshop Requirements

- **Hybrid format:** Delivered in-person and via Zoom, with recording enabled for asynchronous viewing.
- **Duration:** 90-120 minutes (including Q&A).
- **Audience:** Faculty, research staff, and graduate students across disciplines.
- **Materials:** Presenters agree to share workshop materials (e.g., slides, code, example datasets) for participants' use, to be hosted publicly on the [ADR website](#).

Honorarium

Selected presenters will receive **\$500** in Professional Development funds upon completion of the workshop and submission of materials. Funds will be placed in a faculty member's unrestricted index (where possible) or in the account of the presenter's home department.

Proposal Submission

To submit your proposal, please email ADR Hout (mhout@nmsu.edu) with the following. Make sure to send no more than two PDFs. The first should include items 1-6, and the second should include item 7.

1. Workshop title and brief abstract (150–500 words).
2. Intended learning outcomes (2–4 bullet points).
3. Specific target audience and assumed prerequisite knowledge.
4. Software needed to participate in the workshop (if any), and confirmation that it is available for free or through NMSU.
5. Short presenter bio (100-300 words) highlighting relevant expertise.
6. Preferred presentation date(s). Workshops will likely begin in October of 2025 and continue through until May of 2026.
7. An up-to-date CV or resume.

Selection Criteria

Proposals will be evaluated based on:

- Clarity and relevance of topic.
- Potential appeal to a broad audience in the College of HEST.
- Presenter's expertise and experience.
- Balance of topics across the full series.

Questions?

Contact ADR Hout for more information (mhout@nmsu.edu).

We look forward to your proposals and to building a vibrant community of quantitative research practice across the College!