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Department of Statistics: Statistical Consulting Services Available

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Department of Statistics Statistical Consulting Services Available

Magdalena Niewiadomska-Bugaj, PhD



Statistical Consulting Center

- ▶ Mission: To help faculty, staff and students in designing experiments, data collection, analysis, report writing, and grant preparation.
- ▶ Depending on the problem we provide help in a single meeting, several meetings, or even a semester(s) long project.
- ▶ Wise use of the resources available: Contact us to discuss statistical design BEFORE you start collecting the data



Joint papers (two examples)

- ▶ Henderson, C., Dancy, M., & Niewiadomska–Bugaj, M. (2012) The Use of Research–Based Instructional Strategies in Introductory Physics: Where do Faculty Leave the Innovation–Decision Process?, *Physical Review Special Topics – Physics Education Research*, 8 (2), 020104.
- ▶ Adkison–Bradley, C., DeBose, C., Terpstra, J., & Bilgic, Y. (2012). Postadoption services utilization among African American, transracial and white American parents: Counseling and legal implications. *The Family Journal: Counseling and Therapy for Couples and Families*, 20(4), 392–398.



Consulting Fee


Consulting fee is negotiable

Free Friday: Free initial consulting on Friday afternoons during Fall and Spring semesters– contact Dr. Terpstra to schedule an appointment.

- ▶ Director: Dr. Jeff Terpstra, 7-0611 or
- ▶ jeffrey.terpstra@wmich.edu
- ▶ URL: <http://www.stat.wmich.edu/scc/index.html>



Areas of Expertise:

- Analysis of Variance
 - Basic Statistical Methods
 - Bayesian Analysis
 - Categorical Data Analysis
 - Classification
 - Descriptive Statistics
 - Design of Experiments
 - Discriminant Analysis
 - Environmental Statistics
 - Factor Analysis
 - Industrial Design of Experiments
 - Linear Regression
 - Logistic Regression
 - Meta-analysis
 - Multiple Comparison Procedures
 - Monte Carlo Procedures
 - Multivariate Methods
 - Nonlinear Models
 - Nonparametric Procedures
 - Principal Components Analysis
 - Propensity Analysis
 - Resampling Techniques
 - Response Surface Methods
 - Robust Statistical Procedures
 - Sample Size Determination
 - Spatial Analysis
 - Statistical Computing
 - Statistical Graphics
 - Statistical Software Development
 - Structural Equation Modeling
 - Survival Analysis
 - Taguchi Methods
 - Time Series
 - Zero-Heavy Data Analysis
- 

How could the SCC respond to your needs?

- ▶ Training and support in statistical software use (SAS, SPSS, Minitab, R)
- ▶ Training/workshops in particular area of statistics.
- ▶ Other ideas?
- ▶ m.bugaj@wmich.edu or jeffrey.terpstra@wmich.edu



Interdisciplinary Graduate Certificate in Applied Statistics

- ▶ Prerequisite: An introductory course in Statistics.
- ▶ Course Work: 18 credits.
 - STAT 6020 – Statistical Data Analysis
 - Five courses selected from statistics methodology courses (5000 level courses).
- ▶ Note: WMU graduate students can transfer (double count) up to three approved quantitative courses from their own departments.



QUESTIONS?

