

Estaban Javier Mansilla Kenning, MS Applied Math
On Edgeworth Expansions for Independent and Dependent
Random Variables with Applications to Insurance
Chair: Dr. Vladimir Rotar

Colleen Neroda, MA Mathematics
Distance Matrices
Chair: Dr. Bob Grone

Erica Nicole Offerman, MA(TS) Mathematics
Middle School Students' Understanding of Connections Be-
tween Algebraic and Graphical Representations of Linear
Functions
Chair: Dr. Susan Nickerson

Raymond Montellano Paulino, MS Applied Mathematics
Linear Congruence Construction and Fourier Transform De-
coding of LDPC Codes
Chair: Dr. Stefan Hui

Andreas Joachim Rupp, MS Applied Mathematics
Gridding Daily Precipitation Data over Texas
Chair: Dr. Sam Shen

Katja Sauler MS Applied Mathematics
Acceptable Insurance Premiums and Central Limit Theorems
of Probability Theory
Chair: Dr. Vladimir Rotar

Andrea L. Sholtes, MS Applied Mathematics
Cycles in LDPC Codes
Chair: Dr. Roxana Smarandache

S. Jennifer Stary, MS Statistics
Exact Confidence Intervals for the Proportion Under Inverse
Sampling
Chair: Dr. C.D. Lin

Val Villegas, MA Mathematics
Grassmannian Low Density Parity Check Codes
Chair: Dr. Michael O'Sullivan

Chad Wagner, MS Applied Mathematics
Ultametric Characteristics in Phage Proteins
Chair: Dr. Peter Salamon

Xiang Wang, MS Statistics
Testing Non-Inferiority or Equivalence Under Multiple
Matching
Chair: Dr. K.J. Lui

Brenda Kathleen Wilborn, MA Mathematics
Limit Sets of Schottky Groups
Chair: Dr. David Lesley

Douglas Wilkins, MS Statistics
Statistical Modeling of Accident Insurance Contracts
Chair: Dr. Richard Levine

Student Events

Expanding Your Horizons. Graduate statistics students **Courtney Worman** and **Anya Um-
lauf**, along with **Dr. Kristin Duncan**, pre-
sented a workshop on probability and sampling
to middle school and high school girls at the
Expanding Your Horizons conference in San
Diego this March. The goal of the conference
is to nurture girls' interest in science and math
courses and to encourage them to consider sci-
ence and math-based career options such as
engineering, computer science and physical
science.

Mathematical Contest in Modeling. Under-
graduates **Adria Van Loan** (Stats) and **Jer-
emy Kramer** (Math) were successful partici-
pants in the 2007 Mathematical Contest in
Modeling (sponsored by Compap - the Consor-
tium for Mathematics and its Applications).

*New England Symposium on Statistics in
Sports.* Graduate statistics students **Craig
Massey** and **Dan Herrlin** presented a poster
entitled "A Bayesian Analysis of Fantasy Base-
ball" at the New England Symposium on Sta-
tistics in Sports, September 29th, 2007.

Visiting Fulbright Scholar. **Martin Weckerle**
is a Fulbright Scholar from Ulm, Germany,
writing his master's thesis in the Mathematics
Department under the supervision of **Dr.
Robert Grone**.

*Naval Research Enterprise Internship Pro-
gram.* **Dr. Antonio Palacios** has announced
that three of our graduate students have been
awarded the prestigious Naval Research Enter-
prise Internship. Awardees are: **John Aven**,
Ph.D. student in Computational Science,
Mayra Hernandez, M.S. student in Applied
Mathematics, and **Huy Vu**, Ph.D. student in
Computational Science