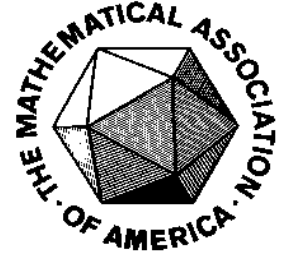
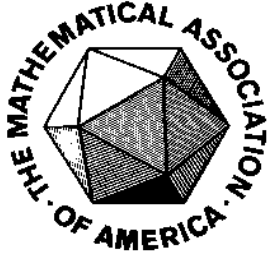


Student Contributed Paper Sessions

Eastern Pennsylvania and Delaware Section of
the Mathematical Association of America

Franklin & Marshall College

March 14, 2015



Session I-A: Graduate Student Talks (STA 105)

- 1:40 *The Physics (and Mathematics) of Negative Refraction*
Eric Stachura, Temple University
- 2:00 *Bayesian and k -Nearest Neighbor Classification for Detection of Breast Cancer and Osteoporosis*
Andre Strong, Amadou Hama, Delaware State University
- 2:20 *The Application of Normalized Graph Cut Partitioning to Image Registration*
Matthew Neil Moore, Delaware State University
- 2:40 *The Sixty-Six Billion Dollar Eigenvector*
Ryan Evans, University of Delaware

Session I-B: Undergraduate Student Talks (STA 109)

- 1:40 *From Quantum Mechanics to Financial Modelling*
Stefan Busheski, Franklin and Marshall College
- 1:55 *Optimal Controls in a Mathematical Model of Agroecosystems*
Cara Sulyok, Ursinus College
- 2:10 *Comparing Canonical and Non-Canonical Link Functions in Generalized Linear Models*
Thyme Greenfield, Bloomsburg University
- 2:25 *Optimal Strategies for Probability Bingo*
Kathryn Sutcliffe, Elizabethtown College

Session I-C: Undergraduate Student Talks (STA 110)

- 1:40 *Computing the Dimension of Cantor Sets*
Emily Nguyen, Muhlenberg College
- 1:55 *n-Pythagorean Triples*
Jeremy Fus, Muhlenberg College
- 2:10 *Introduction to APBRmetrics*
Eric Chavis, Muhlenberg College

Session I-D: Undergraduate Student Talks (STA 114)

- 1:40 *The danger of ignoring hierarchical data*
Franklin Loeb, Arcadia University
- 1:52 *Imputation and related statistical methods*
Stephanie Roscher, Xinling Wang, Arcadia University
- 2:04 *Outlaw p-values and confidence intervals? The current debate*
Matthew Hoffman , Arcadia University
- 2:16 *Statistical techniques for balancing samples*
Elizabeth Begley, Xi Xia, Arcadia University
- 2:28 *Using the efficient frontier model to optimize investment portfolios*
QianYi Cheng, Yimeng Zhang, Yaxuan Zhou, Arcadia University
- 2:40 *Does auto- insurance red-lining still exist?*
Eric Macchi, Yihao Gu, Arcadia University
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