

**11th ANNUAL PROBABILITY
& STATISTICS DAY AT UMBC**

FUNDED BY NATIONAL SECURITY AGENCY

Saturday, April 22, 2017

**INFORMATION TECHNOLOGY/ENGINEERING (ITE)
BUILDING**

Final Program

9:00 AM-9:30 AM *WELCOME*

LECTURE HALL 7 (ROOM 104)

Rouben Rostamian

Chair, Department of Mathematics & Statistics, UMBC

Thomas Mathew

Professor, Department of Mathematics & Statistics, UMBC

Nagaraj Neerchal

Professor, Department of Mathematics & Statistics, UMBC

9:30 AM-10:15 AM *KEYNOTE ADDRESS I*

LECTURE HALL 7 (ROOM 104)

Introduction of Speaker: Bimal Sinha, UMBC

Speaker: Alan Agresti, University of Florida, Gainesville

Title: *Some perspectives about generalized linear modeling*

10:15 AM-11:00 AM *KEYNOTE ADDRESS II*

LECTURE HALL 7 (ROOM 104)

Introduction of Speaker: Yaakov Malinovsky, UMBC

Speaker: Susan Murphy, University of Michigan, Ann Arbor

Title: *Learning treatment policies in mobile health*

11:00 AM – 11:30 AM *COFFEE BREAK*

11:30 AM – 01:30 PM *PARALLEL SESSIONS*

INTERNATIONAL INVITED SESSION

LECTURE HALL 7

Chair: Junyong Park, UMBC

Speakers:

Eitan Greenshtein, Center of Statistical Bureau, Israel

Title: *Nonparametric empirical Bayes improvement of common shrinkage estimators*

Gillian M Raab, Administrative Data Research Centre,
University of Edinburgh, Scotland

Title: *Providing synthetic data for administrative data in the UK*

ORAL PRESENTATIONS BY GRADUATE STUDENTS

ROOM 227

Coordinator and Chair: DoHwan Park, UMBC

Presenters:

Jichong Chai, George Washington University

Title: *A generalized privacy measure and its implication in randomized response*

YunJu Cheng, UMBC

Title: *Marginal Meta-Analysis for Combining Multiple Randomized Clinical Trials with Rare Events*

Xiaoshu Feng, UMBC

Title: *Fiducial inference for the interaction index under logistic dose-response curves*

Zhou Feng, UMBC

Title: *Statistical Analyses of Drug Abuse Deterrent Studies*

Iris Ivy Gauran, UMBC

Title: *Empirical Null Estimation using Zero-inflated Discrete Mixture Distributions and its Application to Protein Domain Data*

Devin Kapper, Clarkson University

Title: *Analyzing Altered Cell Dynamics to Assess Hypoxic Damage and Recovery*

Lingyao Meng, Johns Hopkins University

Title: *Efficient Computation of the Fisher Information Matrix in EM algorithm*

John Zylstra, UMBC

Title: *Effects of Model Misspecification in Linear Regression under Multiply Imputed Synthetic Data*

Judges:

Indrani Basak, Penn State Altoona

Nusrat Jahan, James Madison University

Erum Marfani, Frederick Community College

Lucia Tabacu, Old Dominion University

Rong Wei, National Center for Health Statistics

01:30 PM – 02:45 PM *LUNCH BREAK & PHOTO SESSION*

02:45 PM-03:30 PM *KEYNOTE ADDRESS III*

LECTURE HALL 7 (ROOM 104)

Introduction of Speaker: Kofi Adragi, UMBC

Speaker: Nicholas Jewell, University of California, Berkeley

Title: *Counting civilian casualties: Statistics and human rights problems*

03:30 PM-04:15 PM *KEYNOTE ADDRESS IV*

LECTURE HALL 7 (ROOM 104)

Introduction of Speaker: Anindya Roy, UMBC

Speaker: Jan Hannig, University of North Carolina at Chapel Hill

Title: *Generalized fiducial inference: A review*

04:15 PM – 04:30 PM *COFFEE BREAK*

04:30 PM – 05:30 PM *SPECIAL ALUMNI SESSION*

LECTURE HALL 7 (ROOM 104)

Chair: Martin Klein, U.S. Census Bureau

Marilena Flouri

U.S. Food and Drug Administration

Title: *Tolerance limits for ratios of normal random variables*

Nilabja Guha

Texas A&M University

Title: *Bayesian approaches in inverse problems and uncertainty quantification*

**05:30 PM – 06:15 PM *RECOGNITION CEREMONY & STUDENT
AWARD PRESENTATIONS***

LECTURE HALL 7 (ROOM 104)

Alumni Recognition: Kofi Adragi, UMBC

Presentation of Awards:

Nagaraj Neerchal, UMBC

Martin Klein, U.S. Census Bureau

06:15 PM – 07:00 PM *RECEPTION*

ITE LOBBY

07:30 PM – 09:30 PM *CONFERENCE DINNER: SKYLIGHT ROOM*

Introduction of Banquet Speaker: Bimal Sinha, UMBC

Speaker: Barry Nussbaum, President, American Statistical Association

Title: *What makes this statistics program different from all other statistics programs?*