

**Program of the 2020
Florida Chapter of the ASA Annual Meeting
University of West Florida**

Friday, March 6, 2020

REGISTRATION: 8:30 am - 11:00 am, Building 234, Room 219
11:00 am - 3:00 pm, Building 4, 1st-floor atrium

WORKSHOP: [9:00 am - 11:00 am, Building 234, Room 219](#)
(password: fDMMsfw95u3)
The Statistical Assessment of Bioequivalence and Biosimilarity
Thomas Mathew, University of Maryland, Baltimore County

LUNCH: 12:00 pm - 12:50 pm, Building 4, Room 210

1:00 pm - 1:10 pm Opening Remarks (Building 4, Room 102)
Jaromy Kuhl, Dean, Hal Marcus College of Science and Engineering

SESSION I: [1:10 pm - 2:45 pm \(Invited Keynotes: Building 4, Room 102\)](#)
(password: etEqdU3Sm46)

Chair **Raid Amin**, University of West Florida

1:10 pm - 1:55 pm *2020 Census, Lagrange's Identity, and Apportionment of the U.S. House of Representatives*
Tommy Wright, US Census Bureau

2:00 pm - 2:45 pm *TreeScan Data Mining for Drug and Vaccine Safety Surveillance*
Martin Kulldorff, Harvard Medical School

SESSION II: 3:00 pm - 5:00 pm (Contributed Presentations; Building 4)

Room 305: **Student Presentations**

(password: 65B27ngMnjh)

Chair **Rohan Hemasinha**, University of West Florida

3:00 pm - 3:20 pm *Generalization of Sample Size and Power Computations Methods for Two-Stage Randomized Trial*

Rouba Chahine, University of Alabama at Birmingham

3:20 pm - 3:40 pm *Using Convolutional Neural Networks for Live Classification of Dolphins Whistles in Sarasota Bay*

Austin Anderson, New College of Florida

3:40 pm - 4:00 pm *Bayesian Variable Selection Through Wavelet Neural Network For Sparse Spatio-Temporal Data*

Jaehui Lim, Florida State University

4:00 pm - 4:10 pm Coffee break

4:10 pm - 4:30 pm *Fragility Index of Network Meta-Analysis with Application to Smoking Cessation Data*

Aiwen Xing, Florida State University

4:30 pm - 4:50 pm *Interpretation of Regression Models: Using Word Clouds for Visualization*

Heather Rollins, University of West Florida

Room 310: **Faculty and Researcher Presentations**

(password: MckZmYpd253)

Chair **Achraf Cohen**, University of West Florida

3:00 pm - 3:20 pm *Laplace Deconvolution with dependent errors: an Application to the Analysis of Dynamic Contrast-Enhanced imaging*

Rida Benhaddou, Ohio University

3:20 pm - 3:40 pm *Implementation of Clusterability Testing Prior to Clustering*

Naomi Brownstein, Moffitt Cancer Center

3:40 pm - 3:50 pm Coffee break

3:50 pm - 4:10 pm *A Data Scientist Goes to the Museum*

Bernhard Klingenberg, New College of Florida

4:10 pm - 4:30 pm *Canonical Decomposition and Wavelet Natural Vectors in High Dimensional Classification Applications*
Senthil B. Girimurugan, Florida Gulf Coast University

4:30 pm - 4:50 pm *Likelihood-Based Finite-Sample Inference for Synthetic Data from the Pareto Model*
Sandip Barui, University of South Alabama

SESSION III: **5:00 pm - 5:50 pm** (Poster Presentations; Building 4, 2nd-floor corridor)
A Statistical Analysis of Coastal Beach Morphology by Various Citizen Scientists
Tyler Watson, University of West Florida

The Impact of Undergraduate Research Programs on Scientific Outcomes
Mariam Khachatryan, Auburn University

Multivariate Outlier Screening for First-order Assessment of Flight Test Data
James Mackey, US Air Force

Modern Principal Component Analysis for Genomic Data with pathway PCA
Gabriel Odom, Florida International University

A Review of Equivalence and Noninferiority Tests for Longitudinal Designs in Clinical Trials
Joseph Ficek, University of South Florida

A Comparison of Neural Decoding Methods and Population Coding Across Thalamo-Cortical Head Direction Cells
Zishen Xu, Florida State University

ProDCoNN: Protein Design using a Convolutional Neural Network
Chenran Wang, Florida State University

Genetic Connection to Drug Induced Liver Injury (DILI) through Statistical Learning Methods
Roland Moore, Florida State University

Geospatial Analysis of 1949-2018 Oscillations in Rainfall Patterns in the Gulf Coast: Impacts for Climatological Modeling

Cody Goins, Cooper Corey, Samuel Parmer - University of West Florida

6:00 pm - 7:00 pm Dinner, Building 4, 1st-floor atrium

7:00 pm - 7:15 pm Random Entertainment, Building 4, Room 305

7:15 pm - 8:00 pm [Dinner Talk, Building 4, Room 305](#)

(password: Bjyxe6eYt82)

A Biostatistical Potpourri

Martin Kulldorff, Harvard Medical School

Saturday, March 7, 2020

REGISTRATION: 8:30 am - 11:00 am, Building 4, 1st-floor atrium

8:00 am - 9:00 am Florida Chapter of the ASA Business Meeting (Building 4, Room 210)

9:00 am - 9:45 am [Invited Keynote, Building 4, Room 102](#)

(password: AZrJckXT795)

Statistical Analysis of Noise Multiplied Data Using Multiple Imputation

Bimal Sinha, University of Maryland, Baltimore County

SESSION I: 10:00 am - 12:00 pm (Contributed Presentations; Building 4)

Room 205: [Student Presentations](#)

(password: 8VpQ3ZDRhg7)

Chair: **Subharup Guha**, University of Florida

10:00 am - 10:20 am *A Bayesian Approach to Assessing Publication Bias in Meta-Analysis of a Binary Outcome with Controlled False Positive Rate*

Linyu Shi, Florida State University

10:20 am - 10:40 am *Finite Sample Properties of an Exponential-Compound Symmetric Covariance Structure*

Amber Weydert, University of West Florida

10:40 am - 11:00 am *Dirichlet Depths for Point Process*
Yang Chen, Florida State University

11:00 am - 11:10 am Coffee break

11:10 am - 11:30 am *Integrating Brain Imaging GWAS Results to Identify Genes Associated with Alzheimer's Disease*
Shengjie Jiang, Florida State University

11:30 am - 11:50 am *Determining the Impact of Prerequisite Math Courses on Calculus 1 Pass Rate: A Naive Bayes Classification Approach*
Jay Kim Sparks, University of West Florida

SESSION II: **10:00 am - 12:00 pm** (Invited and Contributed Presentations; Building 4)

Room 102: **Faculty and Researcher Presentations**

(password: PmMmgU5yh49)

Chair: **Vy Nguyen**, University of West Florida

9:50 am - 10:35 am *Monitoring and Improving Surgical Quality*
William Woodall, Virginia Tech

10:35 am - 11:05 am *Bayesian Inference in High-Dimensional Vector Autoregressive Models*
Kshitij Khare, University of Florida

11:05 am - 11:15 am Coffee break

11:15 am - 11:35 am *A Nonparametric CUSUM Chart for Multiple Stream Processes Based on the Extend Median Test*
Austin Brown, Kennesaw State University

11:35 am - 11:55 am *Robust Estimation and Selection for Single-Index Regression Model*
Huybrechts Bindele, University of South Alabama

SESSION III: **WORKSHOP: 10:00 am - 12:00 pm: Building 4, Room 348**

(password: b2qJamuDu73)

*Data Exploration and Engagement Strategies for Just-in-time Tutoring
and Promoting Active Learning*

Melanie A. Sutton, Anthony Okafor, Justice Mbizo, Brian Le, Kimberly
Rogers, Logan Goodson, Naomi Semaan – University of West Florida

12:00 pm - 1:00 pm **Lunch**, Building 4, 1st-floor atrium

12:30 pm **Student award ceremony**, Building 4, Room 102

Parking Registration (free)

<https://uwf.edu/finance-and-administration/departments/business-and-auxiliary-services/parking-and-transportation/event-parking-permit/>

Friday 8:30 AM - 11:00 AM: Parking lot E, building 234.

Friday 11:00 AM - Saturday 12:30 PM: Parking lots K, J, and L, building 4.

Wifi

Guest Username: **wirelessguest**

Guest Password: **argos-de74**

UWF Map



Interactive UWF MAP: <https://map.uwf.edu/?id=1250#!ct/41018.33038>