

2021 Biostatistics Student Research Symposium Program

Location: Zoom

Friday, August 27, 2021

9:00-9:05	Welcoming Remarks
9:05-9:20	<i>A 'divide-and-conquer' EM Algorithm for large non-Gaussian Longitudinal Data with Irregular Follow-Ups</i> Reuben Retnam (Advisor: Dipankar Bandyopadhyay)
9:20-9:35	<i>Novel feature evaluation in ultra-high dimensional TCGA Head and Neck Cancer data with right-censored endpoints</i> Atika Urmi (Advisors: Dipankar Bandyopadhyay and Chenlu Ke)
9:35-9:50	<i>The Replication Crisis: Reassessing, Rebuilding, and Redefining Replication</i> Alicia Richards (Advisor: Robert A. Perera)
9:50-10:05	<i>Variability in Causal Effects of e-Assist on a Binary Outcome and One-Sided Noncompliance in a Multi-Site Randomized Trial</i> Xinxin Sun (Advisor: Yongyun Shin)
10:05-10:20	Break
10:20-10:35	<i>Imputation of Below Detection Limit Missing Data in Chemical Mixture Analysis with Bayesian Group Index Regression</i> Matt Carli (Advisor: David C. Wheeler)
10:35-10:50	<i>Knot selection for low-rank kriging models of spatial risk in case-control studies</i> Joseph Boyle (Advisor: David C. Wheeler)
10:50-11:05	<i>Prediction-based Replacement Algorithm for Adaptive Allocation of Severely Delayed Outcome Data</i> Salem Rustom (Advisor: Robert A. Perera)
11:05-11:20	Break
11:20-11:35	<i>Needs Assessment of Health Inequities in Eastern Henrico</i> Emily Walzl (Advisors: Tegwyn Brickhouse and Caroline Carrico)
11:35-11:50	<i>Panel Size Estimation in Primary Care</i> Martin Lavalley (Advisor: Roy T. Sabo)
11:50-12:05	<i>Exploring propensity score techniques in NHANES survey data</i> Rasnick (Advisor: Dipankar Bandyopadhyay)
12:05-12:15	Concluding Remarks

Friday, September 3, 2021

9:00-9:05	Welcoming Remarks
9:05-9:20	<i>Early Termination in Phase II Clinical Trial Admissible Designs Using Decreasingly Informative Priors</i> Chen Wang (Advisor: Roy T. Sabo)
9:20-9:35	<i>Penalized Variable Selection Methods for Competing Risks: Application to UNOS Kidney Transplant Data</i> Edem Defor (Advisor: Dipankar Bandyopadhyay)
9:35-9:50	<i>Evaluation of Multiple Imputation by Chained Regressions (MICE)</i> Dongho Shin (Advisor: Yongyun Shin)
9:50-10:05	<i>Selection Model for COVID-19 recovery and Informative Dropout Given Web Survey Data MNAR</i> Serenity Budd (Advisor: Yongyun Shin)
10:05-10:20	Break
10:20-10:35	<i>Improving machine learning modeling and predictions of 3D domain boundaries</i> Khoa Huynh (Advisor: Mikhail Dozmorov)
10:35-10:50	<i>Using deep learning to classify polyp detection and polyp retrieval from clinical colonoscopy reports</i> Dustin Bastaich (Advisor: Bassam Dahman)
10:50-11:05	<i>Missing data interpolation in meta-analyses with disparate covariate information</i> Rasha Alsaadawi (Advisors: Ekaterina Smirnova and Bryan Lau)
11:05-11:15	Concluding Remarks



Biostatistics
School of Medicine