1) ADAPTIVE PRE-SPECIFICATION IN RANDOMIZED TRIALS WITH AND WITHOUT PAIR-MATCHING
Laura Balzer, University of California, Berkeley
Mark van der Laan, University of California, Berkeley
Maya Petersen, University of California, Berkeley
SEARCH Consortium, University of California, Berkeley

2) DIAGNOSTIC TOOLS FOR MULTIPLE IMPUTATIONS
Iavor Bojinov, Harvard University
Natesh Pillai, Harvard University
Donald Rubin, Harvard University

3) PROPENSITY SCORE MATCHING WITH THREE GROUPS
Jason Bryer, Excelsior College

4) COVARIATE ADJUSTMENT FOR RECURRENT EVENTS UNDER DEPENDENT CENSORING
Youngjoo Cho, The Pennsylvania State University
Debashis Ghosh, University of Colorado

5) INDIVIDUALIZED MEDICINE AND INFORMATIVE MISSINGNESS: A MODEL FOR PREDICTING LATENT HEALTH STATE
R. Yates Coley, Johns Hopkins Bloomberg School of Public Health
Scott Zeger, Johns Hopkins Bloomberg School of Public Health
H. Ballentine Carter, Johns Hopkins School of Medicine

6) A FORMAL TREATMENT OF REGRESSION DISCONTINUITY DESIGNS
Nayia Constantinou, University of Bristol
Aidan O'Keeffe, University College London

7) AN EXTENDED PROPENSITY SCORE APPROACH FOR COMPARATIVE EFFECTIVENESS IN MAIN-VALIDATION STUDY DESIGNS TO ACCOUNT FOR MISSING CONFOUNDERS
Katherine Evans, Harvard University
Eric Tchetgen Tchetgen, Harvard University

8) CAUSAL INFERENCE IN THE TWILIGHT ZONE: COMPONENT-SPECIFIC ESTIMATES IN FINITE MIXTURE MODELS
Avi Feller, Harvard University
Evan Greif, Harvard University
Luke Miratrix, Harvard University
Natesh Pillai, Harvard University

9) MULTIPLE COMPARISONS IN SENSITIVITY ANALYSIS THROUGH QUADRATICALLY CONSTRAINED LINEAR PROGRAMMING
Colin Fogarty, The Wharton School, University of Pennsylvania
Dylan S. Small, The Wharton School, University of Pennsylvania

10) EVALUATING CAUSAL EFFECTS FROM LONGITUDINAL DATA: AN EXAMINATION OF ALTERNATIVES TO DIFFERENCE-IN-DIFFERENCES ESTIMATION
Richard Grieve, LSHTM, University of London
Stephen O'Neill, LSHTM, University of London
Noémi Kreif, LSHTM, University of London
Jasjeet S. Sekhon, University of California, Berkeley

11) DIAGNOSING CONFOUNDING FOR TIME-VARYING AND JOINT EXPOSURES
John W. Jackson, Harvard School of Public Health

12) THE TREND-IN-TREND RESEARCH DESIGN FOR CAUSAL INFERENCE
Xinyao Ji, The Wharton School, University of Pennsylvania
Dylan S. Small, The Wharton School, University of Pennsylvania
Charles E. Leonard, Perelman School of Medicine, University of Pennsylvania
Sean Hennessy, Perelman School of Medicine, University of Pennsylvania

13) ROBUST CONFIDENCE INTERVALS FOR CAUSAL EFFECTS WITH POSSIBLY INVALID INSTRUMENTS
Hyunseung Kang, The Wharton School, University of Pennsylvania
T. Tony Cai, The Wharton School, University of Pennsylvania
Dylan S. Small, The Wharton School, University of Pennsylvania

14) ON THE PREDICTIVE PERFORMANCE OF DATA-MINING METHODS WITH MULTI-LEVEL DATA
Bryan Keller, Teachers College, Columbia University
Christopher Swoboda, University of Cincinnati

15) DOUBLY ROBUST CAUSAL INFERENCE WITH CONTINUOUS INSTRUMENTAL VARIABLES
Edward H. Kennedy, Perelman School of Medicine, University of Pennsylvania
Dylan S. Small, The Wharton School, University of Pennsylvania

16) BAYESIAN SEMIPARAMETRIC LATENT MEDIATION MODEL
Chanmin Kim, Harvard T.H. Chan School of Public Health
Michael Daniels, University of Texas
Yisheng Li, MD Anderson Cancer Center

17) DESIGN, IDENTIFICATION, AND SENSITIVITY ANALYSIS FOR PATIENT PREFERENCE TRIALS
Dean Knox, Massachusetts Institute of Technology
Teppei Yamamoto, Massachusetts Institute of Technology
Matthew A. Baum, Harvard University
Adam Berinsky, Massachusetts Institute of Technology

18) ESTIMATING COUNTERFACTUAL MEANS OF STATIC AND DYNAMIC INTERVENTIONS IN CRITICAL CARE
Noémi Kreif, LSHTM, University of London
Linh Tran, University of California, Berkeley
Maya Petersen, University of California, Berkeley
Richard Grieve, LSHTM, University of London
Mark van der Laan, University of California, Berkeley
Robert Tasker, Boston Children's Hospital

19) CORRECTING MEASUREMENT ERROR IN TIME-VARYING COVARIATES WITH THE SIMEX PROCEDURE
Ryan P. Kyle, McGill University
Erica E.M. Moodie, McGill University
Michal Abrahamowicz, McGill University

20) INFERENCE FOR DISTRIBUTIONAL TREATMENT EFFECTS IN INSTRUMENTAL VARIABLE MODELS
Kwonsang Lee, The Wharton School, University of Pennsylvania
Jing Qin, National Institute of Allergy and Infectious Diseases
Dylan S. Small, The Wharton School, University of Pennsylvania

21) PROPENSITY SCORE APPROACHES TO ESTIMATING TREATMENT EFFECT ON CENSORED COST
Jiaqi Li, Perelman School of Medicine, University of Pennsylvania
Elizabeth Handorf, Temple University Fox Chase Cancer Center
Justin Bekelman, Perelman School of Medicine, University of Pennsylvania
Nandita Mitra, Perelman School of Medicine, University of Pennsylvania

22) MULTIVARIATE PATTERN ANALYSIS AND CONFOUNDING IN NEUROIMAGING
Kristin A. Linn, University of Pennsylvania
Bilwaj Gaonkar, University of Pennsylvania
Jimit Doshi, University of Pennsylvania
Christos Davatzikos, University of Pennsylvania
Russell Shinohara, University of Pennsylvania

23) ADJUSTMENT BY MINIMUM DISCRIMINANT INFORMATION IN THE PRESENCE OF MEASUREMENT ERROR
Daniel McCaffrey, Educational Testing Service
J.R. Lockwood, Educational Testing Service
Shelby J. Haberman, Educational Testing Service
Lili Yao, Educational Testing Service

24) SIMULATION-EXTRAPOLATION FOR ESTIMATING MEANS AND CAUSAL EFFECTS WITH MISMEASURED COVARIATES
J.R. Lockwood, Educational Testing Service
Daniel F. McCaffrey, Educational Testing Service

25) PROPENSITY SCORES IN THE DESIGN AND ANALYSIS OF RANDOMIZED STUDIES
Travis M. Loux, Saint Louis University College for Public Health and Social Justice

26) OPTIMAL DYNAMIC TREATMENTS IN RESOURCE-LIMITED SETTINGS
Alexander R. Luedtke, University of California, Berkeley
Mark J. van der Laan, University of California, Berkeley

27) EXPLORING THE TRADE-OFF BETWEEN INSTRUMENT STRENGTH AND SAMPLE SIZE IN OBSERVATIONAL STUDIES
Susanna Makela, Columbia University
José R. Zubizarreta, Columbia University
Daniel Nagin, Carnegie Mellon University

28) SENSITIVITY ANALYSIS FOR UNOBSERVED EFFECT MODIFIERS IN RCT-TO-TARGET-POPULATION GENERALIZATION OF TREATMENT EFFECT
Trang Quynh Nguyen, Johns Hopkins Bloomberg School of Public Health
Cyrus Ebnesajjad, Johns Hopkins Bloomberg School of Public Health
Elizabeth A. Stuart, Johns Hopkins Bloomberg School of Public Health

29) SHRINKAGE ESTIMATION FOR FACTORIAL EXPERIMENTS
Molly Offer-Westport, Yale University
Peter Aronow, Yale University

30) CONSTRUCTING SECOND CONTROL GROUPS TO ATTENUATE UNMEASURED BIAS
Samuel D. Pimentel, The Wharton School, University of Pennsylvania
Dylan S. Small, The Wharton School, University of Pennsylvania
Paul R. Rosenbaum, The Wharton School, University of Pennsylvania

31) IMPACT OF DELAYED OUTCOMES AND PROGNOSTIC VARIABLES ON SIMULATED RANDOMIZED TRIAL DESIGN WITH ADAPTIVE ENRICHMENT
Tianchen Qian, Johns Hopkins University
Elizabeth Colantuoni, Johns Hopkins University
Aaron Fisher, Johns Hopkins University
Michael Rosenblum, Johns Hopkins University

32) STABLE BALANCING WEIGHTS FOR MARGINAL STRUCTURAL MODELS
Maria de Los Angeles Resa, Columbia University
José R. Zubizarreta, Columbia University

33) FIRED FROM SCHOOL: YOUNG ADULTS' HEALTH OUTCOMES AFTER HIGH SCHOOL SUSPENSION
Janet Rosenbaum, School of Public Health, SUNY Downstate Medical Center

34) A ROBUST NONPARAMETRIC WEIGHTING METHOD FOR INSTRUMENTAL VARIABLE ESTIMATION
Zach Shahn, Columbia University
José R. Zubizarreta, Columbia University

35) ROBUST TREATMENT EFFECT ESTIMATION USING KERNEL MEAN MATCHING
Uri Shalit, New York University
Tal El-Hay, IBM Research Laboratory, Israel
Ya'ara Goldschmidt, IBM Research Laboratory, Israel
Chen Yanover, IBM Research Laboratory, Israel

36) MATCHING METHOD FOR TESTING AND QUANTIFYING UPGRADE OF WIND POWER TURBINE
Yei Eun Shin, Texas A&M University
Jianhua Huang, Texas A&M University
Dr. Yu Ding, Texas A&M University

37) DRINKING AND MORTALITY: LONG-TERM FOLLOW-UP OF DRINKING-DISCORDANT TWIN PAIRS
Pyry Sipilä, University of Helsinki
Richard J. Rose, Indiana University
Jaakko Kaprio, University of Helsinki

38) INSTRUMENTAL VARIABLE SURVIVAL ANALYSIS WITH STRUCTURAL NESTED CUMULATIVE FAILURE TIME MODELS
Alisa J. Stephens-Shields, Perelman School of Medicine, University of Pennsylvania

39) THE PHILOSOPHICAL FOUNDATIONS OF THE APPLICATION OF QUANTUM THEORY IN SOCIAL SCIENCES
Orsolya Tárnok, University of Pécs

40) CAUSAL INFERENCE AS A MISSING DATA PROBLEM, AND VICE VERSA
Felix Thoemmes, Cornell University

41) CAUSAL INFERENCE FOR ORDINAL OUTCOMES
Alexander Volfovsky, Harvard University
Donald Rubin, Harvard University
Edoardo Airoldi, Harvard University

42) CAUSAL ANALYSIS IN MULTI-ARM TRIALS WITH TRUNCATION BY DEATH
Linbo Wang, University of Washington
Thomas S. Richardson, University of Washington
Xiao-Hua Andrew Zhou, University of Washington

43) ON ASSOCIATIVE CONFOUNDER BIAS
Priyantha Wijayatunga, Umeå School of Business and Economics, Umeå University

44) RELATIVE APPEAL AMONG CAUSAL INFERENCE METHODS FOR ASSESSING THE RELATIVE CONTRIBUTIONS OF POVERTY TO MORTALITY DISPARITIES IN OLDER POPULATIONS: SIMULATION STUDIES TO INFORM FOLLOW-ON ANALYSIS OF A 5% MEDICARE SAMPLE
Kenneth J. Wilkins, NIDDK Epidemiology Working Group

45) METABOLOMICS STATISTICAL CAUSAL INFERENCE IN MULTI-OMICS DATA
Azam Yazdani, University of Texas School of Public Health
Akram Yazdani, University of Texas School of Public Health
Ahmad Samiei, University of Texas School of Public Health
Eric Boerwinkle, University of Texas School of Public Health

46) ESTIMATING MEDIATION EFFECTS UNDER CORRELATED ERRORS WITH AN APPLICATION TO fMRI
Yi Zhao, Brown University
Xi Luo, Brown University

47) COVARIATE BALANCED RESTRICTED RANDOMIZATION: OPTIMAL DESIGNS, EXACT TESTS, AND ASYMPTOTIC PROPERTIES
Jingjing Zou, Columbia University
José R. Zubizarreta, Columbia University