Division of Oncology Biostatistics and Bioinformatics
Research Program in Quantitative Sciences

Past Seminars (2011-2019)

May 30, 2019
"Simultaneous Testing Procedure for Mediation Effect of DNA Methylation in Genome-Wide Epigenetic Studies"

Jincheng Shen, PhD
Adjunct Assistant Professor, Internal Medicine/Family and Preventive Medicine
Assistant Professor, Population Health Sciences
University of Utah
Salt Lake City, UT

May 2, 2019
"Health disparities calculator (HD*Calc): a tool for estimating health disparities using public health surveillance data"

Mandi Yu, PhD
Associate Professor
Statistical Research and Applications Branch
National Cancer Institute
Bethesda, MD

April 18, 2019
CANCELLED

March 21, 2019
"A Bayesian Nonparametric Model for Classification of Longitudinal Profiles"

Jeremy Gaskins, PhD
Assistant Professor
Department of Bioinformatics and Biostatistics
School of Public Health and Information Sciences
University of Louisville
Louisville, KY

February 21, 2019
"Study Design and Analysis Considerations in CBER Innovative Biologic Products"

Min (Annie) Lin, PhD
Mathematical Statistician
Division of Biostatistics
FDA/CBER/OBE
Silver Spring, MD

January 17, 2019
"Integrative Computational Approaches to the Understanding and Treatment of Cancer"

Jill Mesirov, PhD
Associated Vice Chancellor for Computational Health Sciences
Professor, Department of Medicine  
University of California - San Diego  
La Jolla, CA

2018

December 6, 2018
"Discovery, Design and Analysis of Multidrug Combinations: Nonclinical Modeling to Clinical Trials"
Ming Tan, PhD  
Chair, Biostatistics and Bioinformatics  
Professor, Biostatistics and Bioinformatics  
Georgetown University  
Washington, DC

November 15, 2018
"Leveraging Real World Data for Regulatory Decision-Making: Opportunities and Challenges"
Lilly Yue, PhD  
Deputy Director, Pre-Market and Operations  
Division of Biostatistics, Center for Devices and Radiological Health  
Food and Drug Administration  
Rockville, MD

October 18, 2018
"Associating Extreme Tumor Responses with Extreme Tumor Heterogeneity for Treatment Choice"
Jeanne Kowalski, PhD  
Associate Professor  
Department of Biostatistics and Bioinformatics  
Director, Biostatistics and Bioinformatics Shared Resources  
Emory University, Winship Cancer Institute  
Atlanta, GA

September 20, 2018
"Robust Optimization of Cancer Immunotherapy"
Jana Gevertz, PhD  
Associate Professor  
Department of Mathematics and Statistics  
The College of New Jersey  
Ewing, NJ

No Speakers June, July, and August

May 17, 2018
“Scalable Statistical Models for Heterogeneous Genomic Data”
Yingying Wei, PhD  
Assistant Professor  
Department of Statistics  
The Chinese University of Hong Kong  
Shatin, Hong Kong
April 26, 2018
“Mining Personal, Dense, Dynamic Data Clouds to Optimize Health and Drive Discovery”
Nathan Price, PhD
Professor and Associate Director
Institute for Systems Biology
Seattle, WA

April 11, 2018
Special Seminar
“The Replicability Problems in Science: It’s Not the P-Value’s Fault”
Yoav Benjamini, PhD
Professor of Applied Statistics
Department of Statistics and Operations Research
Tel Aviv University
Tel Aviv, Israel

March 15, 2018
CANCELLED

February 15, 2018
“Computational Systems Pharmacology in Cancer”
Feilim Mac Gabhann, PhD
Associate Professor
Department of Biomedical Engineering and Institute for Computational Medicine
Johns Hopkins University
Baltimore, MD

January 18, 2018
“What’s new at ASCOL The Center for Research and Analytics (CENTRA)”
Elizabeth Garrett-Mayer, PhD
Division Director, Biostatistics and Data Management
Center for Research and Analytics
American Society of Clinical Oncology
Alexandria, VA

2017
December 14, 2017
“Identifying Transcription Factor Binding Using Open Chromatin, Transcriptome, and Methylation Data”
Michael Hoffman, PhD
Scientist/Assistant Professor
Princess Margaret Cancer Center
University of Toronto
Toronto, Ontario, Canada

November 16, 2017
“A System Approach to Understanding Endocrine Resistance in Breast Cancer”
Ayesha N. Shajahan-Haq, PhD
Assistant Professor, Department of Oncology
Breast Cancer Program
Lombardi Comprehensive Cancer Center
Georgetown University Medical Center
Washington, DC

October 19, 2017
"How Should We Design Dose Finding Cancer Trials for New Anticancer Agents?"
**Shing M. Lee, PhD**
Associate Professor
Department of Biostatistics
Columbia University
New York, NY

September 28, 2017
"Kernel Machine Association Testing for Longitudinal Phenotypes"
**Zuoheng (Anita) Wang, PhD**
Associate Professor of Biostatistics
Computational Biology and Bioinformatics Program
Yale School of Public Health
New Haven, CT

No Speakers June, July, and August

May 18, 2017
“Adaptive Designs for Dose Finding in Early Phase Cancer Clinical Trials Using Drug Combinations”
**Mourad Tighiouart, PhD**
Assistant Director, Biostatistics and Bioinformatics Research Center
Associate Professor, Department of Medicine
Cedars-Sinai
Los Angeles, CA

April 27, 2017
**Special Seminar**
“Instrumental Variable Regression with Survival Outcomes”
**Jason Fine, ScD**
Professor, Department of Biostatistics
Professor, Department of Statistics and Operations Research
University of North Carolina
Chapel Hill, NC

April 20, 2017
“Interval Designs for Dose Finding Clinical Trials”
**Yuan Ji, PhD**
Director, Program of Computational Genomic & Medicine
NorthShore University HealthSystem
Evanston, IL
Associate Professor, Department of Health Services
University of Chicago
Chicago, IL

March 16, 2017
“Issues with Training, Testing and Validation Datasets in the Development of Diagnostic Devices”
Lakshmi Vishnuvajjala, PhD
Chief, Diagnostic Devices Branch 1
Division of Biostatistics
Food and Drug Administration
Silver Spring, MD

February 16, 2017
“Connecting Short-Term Response with Long-Term Survival for Efficient Outcome-Adaptive Randomization in Oncology Clinical Trials”
Xuelin Huang, PhD
Professor, Department of Biostatistics
Division of Quantitative Sciences
The University of Texas MD Anderson Cancer Center
Houston, TX

January 19, 2017
“Big Clinical Trials: The NCI National Clinical Trials Network and NRG Oncology”
James J. Dignam, PhD
Professor, Biostatistics
Department of Public Health Services
University of Chicago Biological Services
Chicago, IL

2016
December 15, 2016
No Seminar held

November 17, 2016
“Quantitative Issues in Lung Cancer Screening”
Paul Pinsky, PhD
Chief, Early Detection Research Group
Division of Cancer Prevention
National Institutes of Health
Bethesda, MD

October 20, 2016
“Being a Data’ologist: Machine Learning and Design Thinking for Personalized Healthcare”
Nitesh Chawla, PhD
Frank M. Freinman Professor
Department of Computer Science and Engineering
University of Notre Dame
South Bend, IN

September 15, 2016
“Learning from Learning Machines”
James Malley, PhD
Research Mathematical Statistician
Center for Information Technology (CIT)
National Institutes of Health
Bethesda, MD

No Speakers June, July, and August

May 19, 2016
“Nonparametric Failure Time Analysis with Genomic Applications”
Shamil Sunyaev, PhD
Professor
Harvard University Medical School
Cambridge, MA

April 21, 2016
“Methods for the Comprehensive Mega-analysis of Cancer Omics Data”
Xuefeng Wang, PhD
Assistant Professor
Department of Preventive Medicine
Stony Brook University
Stony Brook, NY

March 17, 2016
“Integrating Molecular Assays into Clinical Decision Making”
Leslie Cope, PhD
Associate Professor
Director, Bioinformatics Shared Resource Oncology Biostatistics & Bioinformatics
Johns Hopkins University School of Medicine
Baltimore, MD

February 18, 2016
“Improving Statistical Practice and Procedures in Collaborative Projects with Omics Data”
Kai Kammers, PhD
Postdoctoral Fellow
Department of Biostatistics
Johns Hopkins University Bloomberg School of Public Health
Baltimore, MD

January 21, 2016
“Nonparametric Failure Time Analysis with Genomic Applications”
Cheng Cheng, PhD
Professor
Department of Biostatistics
St. Jude Children’s Research Hospital
Memphis, TN

2015
December 17, 2015
“Assessment of Omics-Based Predictor Readiness for Use in a Clinical Trial”
Lisa Meier McShane, PhD
Mathematical Statistician National Cancer Institute
Biometric Research Branch
Division of Cancer Treatment and Diagnosis
Bethesda, MD

November 19, 2015
"Identifying Signaling-Driven Biomarkers Robust to Normal Tissue Contamination"
Michael Ochs, PhD
Associate Professor
Mathematics and Statistics
The College of New Jersey
Ewing, NJ

October 15, 2015
"Automatic Methods for the Interpretation of Visual Data"
Rene Vidal, PhD FIEEE
Professor of Biomedical Engineering
Center for Imaging Science
Johns Hopkins University
Baltimore, MD

September 17, 2015
"Estimating the Cost-Effectiveness of Cancer Therapies from Observational Data"
Nandita Mitra, PhD
Associate Professor of Biostatistics
Department of Biostatistics and Epidemiology
University of Pennsylvania
Philadelphia, PA

No Speakers June, July or August

May 21, 2015
"Modeling Type and Timing of Consecutive Events: Applications to Predicting Preterm Birth in Repeated Pregnancies"
Joanna Shih, PhD
Mathematical Statistician
National Cancer Institute
Biometric Research Branch
Division of Cancer Treatment and Diagnosis
Bethesda, MD

April 16, 2015
"Pseudo-value Regression Models for Clustered Time to Event Data"
Brent Logan, PhD
Professor, Division of Biostatistics
Institute for Health & Society
Medical College of Wisconsin
Milwaukee, WI

March, 19, 2015
No Speaker
February 19, 2015
“Functional Proteomics Analysis of High-Grade Serous Ovarian Carcinoma”
Li (Lily) Chen, PhD
Research Associate, Department of Pathology-Clinical Chemistry
Johns Hopkins University, School of Medicine
Baltimore, MD

January 15, 2015
“Variation in Cancer Risk Among Tissues Can Be Explained by the Number of Stem Cell Division”
Cristian Tomasetti, PhD
Assistant Professor, Department of Oncology
Division of Biostatistics and Bioinformatics
Johns Hopkins University School of Medicine
Baltimore, MD

2014
December 18, 2014
“Challenges and Opportunities in Biomarker Translational Research”
Ziding Feng, PhD
Professor, Department of Biostatistics
Division of Quantitative Sciences
The University of Texas MD Anderson Cancer Center
Houston, TX

November 24, 2014
“Bayesian Semiparametric Regression Modeling for ROC Analysis, Absent a Gold Standard”
Wesley Johnson, PhD
Professor, Department of Statistics
University of California - Irvine
Irvine, CA

November 20, 2014
“Knowledge-fused Differential Dependency Network Models for Detecting Significant Rewiring in Biological Networks”
Yue (Joseph) Wang, PhD
The Grant A. Dove Professor
Bradley Department of Electrical & Computer Engineering
Virginia Tech Research Center
University of Virginia
Arlington, VA

October 16, 2014
"Integrative Analysis of Data from The Cancer Genome Atlas"
Ilya Shmulevich, PhD
Professor, Institute for Systems Biology
Seattle, WA

September 18, 2014
“Exploring Tumor Epigenetic Heterogeneity by Cell-Specific Methylation Pattern Reconstruction”
Hector Corrada Bravo, PhD
Assistant Professor, Center for Bioinformatics and Computational Biology
Department of Computer Science
University of Maryland
College Park, MD

No Seminars in June, July or August

May 7, 2014
“Analysis of Heterogeneity of Treatment Effect for the FDA and the PCORI: Two Perspectives”
Ravi Varadhan, PhD, PhD
Division of Geriatric Medicine and Gerontology
Department of Medicine and BSPH, Department of Biostatistics
Baltimore, MD

April 30, 2014
“Improved Survival Modeling in Cancer Research Using a Reduced Piecewise Exponential Approach”
Gang Han, PhD
Department of Biostatistics, School of Public Health
Yale University
New Haven, CT

March 26, 2014
“Challenges and Analytical Considerations for Group Randomized Trials”
Ji-Hyun Lee, PhD
Associate Member of Biostatistics, Moffitt Cancer Center
Associate Professor of Oncologic Sciences, University of South Florida
Tampa, FL

March 20, 2014
“Design and Analysis of Tumor Xenograft Experiments”
Daniel F. Heitjan, PhD
Professor of Biostatistics and Statistics
Perelman School of Medicine
University of Pennsylvania
Philadelphia, PA

February 20, 2014
“Moving Beyond the Comfort Zone in Practicing Translational Statistics for Clinical Trials”
Lee-Jen Wei, PhD
Professor of Biostatistics
Director, Industry Partnership Program
Harvard School of Public Health
Boston, MA

January 16, 2014
“Estimating the Cumulative False-Positive Risk of a Cancer Screening Regimen Using Electronic Medical Records”
Rebecca Hubbard, PhD
2013
December 19, 2013
"Some Statistical Ideas for Speeding Translation of Genomic Biomarkers to the Clinic"
Jeffrey Leek, PhD and Michael A. Rosenblum, PhD
Assistant Professors' Department of Biostatistics
Johns Hopkins Bloomberg School of Public Health
The Johns Hopkins University
Baltimore, MD

November 21, 2013
“The Challenge of Co-Approving a Drug and the Diagnostic Device to Select Patients for that Drug”
Estelle Russek-Cohen, PhD
Director, Division of Biostatistics
Office of Biostatistics and Epidemiology
Center for Biologics Evaluation and Research, FDA
Bethesda, MD

October 17, 2013
“Trust, Integrity & Ethics in "Oomics" Research: From Individual Misconduct to Responsible Systems and Cultural Change”
Gail Geller, ScD, MHS
Professor, The Johns Hopkins University
Berman Institute of Bioethics and The Department of Medicine
Baltimore, MD

Shared Seminar (JHU BSPH Biostatistics)
August 27, 2013
“Multivariate Statistical Methods for Genomewide Data Integration”
Debashis Ghosh, PhD
Departments of Statistics and Public Health Sciences
Pennsylvania State University
State College, PA

No Seminars in June, July or September

May 30, 2013
"CGH-Interactome-Transcriptome Integration to Detect Driver Genes in Cancer"
Ghislain Bidaut, PhD
Head of Integrative Bioinformatics Platform
Centre de Recherche en Cancérologie de Marseille
Marseille, France

April 18, 2013
“Building Better Biomarkers: Can the Genome Help?”
Nancy J. Cox, PhD
March 27, 2013
Explorer Fertig, PhD
Instructor, Department of Oncology
Division of Biostatistics and Bioinformatics
Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins
Baltimore, MD

March 21, 2013
“Recommendations for Biomarker Study Design and Analysis: Surrogate Endpoints, Risk Prediction, Early Detection, and Treatment Selection”
Stuart C. Baker, ScD
Mathematical Statistician
National Cancer Institute
Bethesda, MD

February 21, 2013
"Text Analysis for System Biology and Personalized Medicine"
Simon Lin, MD
Biomedical Informatics Research Center
Marshfield Clinic Research Foundation
Marshfield, WI

February 7, 2013
"Enrichment Trials: Fact or Fiction"
Susan Halabi, PhD
Professor, Department of Biostatistics and Bioinformatics
Duke University School of Medicine
Durham, NC

January 17, 2013
“Integrative Mathematical and Physical Oncology: The Journey to the Clinic”
Sofia D. Merajver, MD, PhD
Professor of Epidemiology and Department of Internal Medicine
Director, Breast and Ovarian Cancer Risk and Evaluation Program
University of Michigan School of Public Health
Ann Arbor, MI

2012
November 29, 2012
“Modeling the Regulatory Network of the Genotype-Phenotype Map”
Rongling Wu, PhD
Professor of Biostatistics and Bioinformatics
Director, Center for Statistical Genetics
Pennsylvania State University
State College, PA

October 11, 2012
“Correcting for Unwanted Variation in Methylation Array Studies: A Story in Which Ghosts Become the Unlikely Heroes”
Jovana Makismovic, PhD
Research Officer Bioinformatics Research Group
Murdoch Children’s Research Institute
Victoria, Australia

No Seminars in June, July or August

May 17, 2012
“Computational Challenges in Molecular Medicine”
Donald Geman, PhD
Professor, Applied Mathematics and Statistics
Johns Hopkins University
Baltimore, MD

April 19, 2012
“G-DOC – Enabling Systems Medicine through Innovations in Informatics”
Subha Madhavan, PhD
Director, Clinical Research Informatics
Lombardi Comprehensive Cancer Center
Director, Biomedical Informatics
Georgetown-Howard Universities CTSA
Georgetown University Medical Center
Washington, DC

March 8, 2012
“Statistical Evaluation of Diagnostic Tests for Cancer Biomarkers: A Regulatory Perspective”
Gene Pennello, PhD
Team Leader, Diagnostics Devices Branch
Division of Biostatistics, OSB (Office of Surveillance and Biometrics), FDA
Silver Spring, MD

February 16, 2012
“Biomarker Discovery and Validation for Single Chemotherapeutic Drug Responses and Survival of Advanced Cancer Patients.”
Jae K. Lee, PhD
Professor and Director, Division of Biostatistics
Departments of Public Health Sciences, Statistics & Systems and Information Engineering
University of Virginia School of Medicine
Charlottesville, VA

January 26, 2012
“The Johns Hopkins i-Health Initiative; i for Individualized; information-rich; innovative; and with integrity”
Scott Zeger, PhD
Vice Provost for Research
Professor of Biostatistics  
The Johns Hopkins Bloomberg School of Public Health  
The Johns Hopkins University  
Baltimore, MD

2011
December 15, 2011
“Moving Beyond the Mean: The Role of Variation in Determining Phenotype”
John Quackenbush, PhD
Department of Biostatistics & Computational Biology  
Center for Cancer Computational Biology  
Functional Genomics & Computational Biology  
Dana-Farber Cancer Institute / Harvard University  
Boston, MA

October 20, 2011
“Bayesian Hierarchical Modeling and Selection of Differentially Expressed Genes for the EST Data”
Ming-Hui Chen, PhD
Department of Statistics  
University of Connecticut  
Storrs, CT

September 15, 2011
“Development of Reliable and Clinically Useful Molecular Signatures: A Statistical Perspective”
Lisa M. McShane, PhD
Biometric Research Branch  
National Cancer Institute  
Bethesda, MD

No Seminars in June, July or August

May 19, 2011
“Can High-Throughput Genomics Data Identify New Therapeutic Targets in Cancer?”
Rachel Karchin, PhD
Assistant Professor  
Institute for Computational Medicine  
Department of Biomedical Engineering  
Johns Hopkins University  
Baltimore, MD

April 21, 2011
“Lost in Translation: Issues in Moving Prognostic and Surrogate Prostate Cancer Biomarkers to the Clinic”
Bruce Trock, PhD
Associate Professor of Urology, Epidemiology and Environmental Health Sciences  
Johns Hopkins University  
Baltimore, MD

February 17, 2011
“Risk Prediction with Biomarkers: Model Averaging, Prediction and Calibration”
Debashis Ghosh, PhD
Professor, Department of Statistics and Public Health Sciences
Pennsylvania State University
State College, PA

January 20, 2011
“Counting Cancer Mutations: Implications for Cancer Biology and Management”

Kenneth Kinzler, PhD
Professor of Oncology
Director of the Ludwig Center
Johns Hopkins University
Baltimore, MD