

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

Associate Investigator
Group Health Research Institute
Seattle, WA

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 "Omics" 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

Professor and Section Chief, Section of Genetic Medicine
Department of Medicine
Professor, Department of Human Genetics
University of Chicago
Chicago, IL

March 27, 2013

Elana 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