| Statistical Practice Conference Agenda<br>May 13, 2016<br>SRB, Ted & Marty Couch Auditorium (unless otherwise specified) | |
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| 9:00am – 9:15am | **Introduction:**<br>Michael J, Schell, PhD |
| 9:15am – 9:45am | **Session 1:** *Challenges in Using Bayesian Ideas in Study Design*<br>Gary L. Rosner, ScD |
| 9:45am – 10:15am | **Session 2:** *Efficient Communication for Applied Statisticians*<br>Ji-Hyun Lee, DrPH |
| 10:15am – 10:30am | **BREAK** |
| 10:30am – 11:00am | **Session 3:** *Identifying Novel Clinically Impactful Mutations using Rare Variant Analyses and Robust Regression*<br>Y. Ann Chen, PhD |
| 11:00am – 11:30am | **Session 4:** *Identifying Key Advances to Improve Statistical Practice*<br>Michael J, Schell, PhD |
| 11:30am – 12:30pm | **LUNCH**<br>(SRB, Atrium 2 & 4) |
| 12:30pm – 1:00pm | **Session 5:** *Improved Survival Analysis in Two Personalized Cancer Therapy Studies*<br>Gang Han, PhD |
| 1:00pm – 1:30pm | **Session 6:** *Designing the Trial of PD-1 Blockade in Tumors with Mismatch Repair Deficiency*<br>Hao Wang, PhD |
| 1:30pm – 2:00pm | **Session 7:** *On the Use of Proportional Hazard Models for Recurrent-Event Survival Data*<br>Yiliang Zhu, PhD |
| 2:15pm – 4:00pm | **Planning Session** (SRB, Atrium 4)<br>**&**<br>**Brief Tour and Reception** (MRC, Conference Room 2063) |

**Conference Host & Organizer**

**Michael J. Schell, PhD**
Senior Member,
Department of Biostatistics & Bioinformatics
Scientific Director, Biostatistics Shared Resource
H. Lee Moffitt Cancer Center & Research Institute

Dr. Schell is a Senior Member in the Biostatistics and Bioinformatics Department and Scientific Director of the Biostatistics Shared Resource at the Moffitt Cancer Center. He is also the Director of the Biostatistics Core for the Skin SPORE grant. He has over 30 years of experience in statistical analysis related to cancer research, with primary areas of expertise in clinical trials, flexible regression methods, and next-generation sequencing analysis. He authored "Identifying Key Statistical Papers From 1985-2002 Using Citation Data for Applied Biostatisticians", *The American Statistician*, 2010.
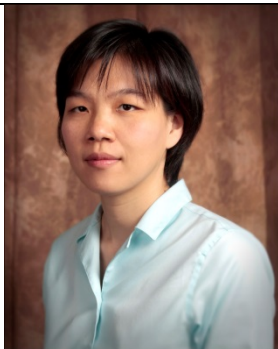
**Y. Ann Chen, PhD**
Associate Member,
Department of Biostatistics & Bioinformatics
H. Lee Moffitt Cancer Center & Research Institute

Dr. Chen is an Associate Member in the Department of Biostatistics and Bioinformatics at the Moffitt Cancer Center and an Associate Professor at the University of South Florida. Dr. Chen's research focuses on incorporating multiple data sources, multi-scale modeling, selecting biologically relevant markers, and predicting clinical outcomes in an integrated manner. She has expertise in Bayesian modeling of microarray, proteomics data, GWAS studies, and exome sequencing data. Dr. Chen also co-directs the Biostatistics Core of the Moffitt Skin SPORE grant.

**Gang Han, PhD**
Associate Professor of Biostatistics
Department of Epidemiology and Biostatistics
School of Public Health
Texas A&M Health Science Center
Texas A&M University

Dr. Gang Han is Associate Professor of Biostatistics at Texas A&M University and Adjunct Member in Department of Pathology, Yale Medical School. He worked at Moffitt Cancer Center and Yale University for 7 years after receiving his PhD in Statistics, and prior to moving to Texas in 2015. His research experience includes modeling cancer survival, HIV viral load dynamics, and computer experiments. He is the chief biostatistician in an ongoing multi-institutional study of Programmed Cell Death Ligand-1 expression in lung cancer sponsored by Bristol-Myers Squibb and organized by National Comprehensive Cancer Network.

**Ji-Hyun Lee, DrPH**
Director, Biostatistics Shared Resource
University of New Mexico Comprehensive Cancer
Center
Professor of Biostatistics
University of New Mexico School of Medicine

Dr. Lee is Director and Professor of the Biostatistics Shared Resource at the University of New Mexico Comprehensive Cancer Center (UNMCCC). Prior to joining the UNMCCC in July 2014, she was a faculty member of Biostatistics at the Moffitt Cancer Center for 11 years and collaborated with several clinical departments, Health Outcome and Behavior Division, and Cancer Epidemiology Division in numerous studies. Her research interest includes group/cluster randomized trials based on communities, methods for repeated and longitudinal measurements, and best statistical practices. She has authored over 115 peer-reviewed articles, particularly in behavioral intervention evaluation for cancer population. Her statistical methodological work has been the result of extensive collaboration with investigators in a wide range of cancer research areas.
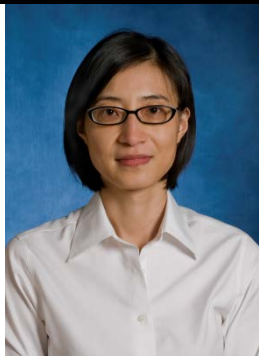


**Gary L. Rosner, ScD**
Director of the Division of Biostatistics and
Bioinformatics, Department of Oncology
E. K. Marshall Jr. Professor of Oncology
Johns Hopkins University School of Medicine
Professor of Biostatistics
Johns Hopkins Bloomberg School of Public Health

Dr. Gary Rosner, Professor of Oncology, is Director of the Division of Biostatistics and Bioinformatics, in the Department of Oncology, since joining the faculty at Johns Hopkins University in February 2010. Dr. Rosner leads the Biostatistics Shared Resource in the Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins. He received his Sc.D. in Biostatistics from the Harvard School of Public Health in 1985. He was a member of the faculties of Yale University, Duke University, and The University of Texas M. D. Anderson Cancer Center. He has been actively involved in collaborative research, teaching, and mentoring. Dr. Rosner has extensive experience in clinical research. In addition to collaborating with clinical researchers at his home institutions, he was a faculty statistician in the Statistical Office of the Cancer and Leukemia Group B (CALGB) for 12 years. Dr. Rosner's biostatistical research concerns population pharmacokinetics, pharmacodynamic modeling, pharmacogenetics, Bayesian methods, the analysis of repeated measurement and longitudinal data, clinical trial design, and survival analysis.

**Hao Wang, PhD**
Assistant Professor of Oncology
The Johns Hopkins University School of Medicine
The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

Dr. Hao Wang is an Assistant Professor of Oncology in the Division of Biostatistics and Bioinformatics of the Sidney Kimmel Comprehensive Cancer Center at the Johns Hopkins University. At Hopkins she is the primary statistician for the programs in prostate cancer, cancer immunology, cancer imaging, as well as gastrointestinal cancer and head and neck cancer. She co-directs the Biostatistics and Bioinformatics core of the Hopkins SPORE of Prostate. She is serving on the NCI Pancreas Task Force of the Gastrointestinal Steering Committee as a Statistical Expert. Her current research interest includes the design of clinical trials, with an emphasis on integrating biomarkers to identify subgroups of patients who will benefit from a therapy. She has also developed statistical methods to study the longitudinal smoking patterns and the self-reporting behaviors of smokers. Prior to Hopkins, she worked as a statistician at the University of Pennsylvania and Fox Chase Cancer Center. She received her PhD in Biostatistics from the University of Pennsylvania in 2009.



**Yiliang Zhu, PhD**
Professor, Department of Epidemiology and Biostatistics
College of Public Health, Department of Internal Medicine
Morsani College of Medicine, University of South Florida

Dr. Yiliang Zhu is professor in the Department of Epidemiology and Biostatistics, College of Public Health and Department of Internal Medicine, Morsani College of Medicine at the University of South Florida. He was a Fulbright Fellow (2012-13), conducting rural health system and policy research in NW rural China, where he was able to launch the Loess Health Project. Following that, he was a Science and Technology Policy Fellow of the American Association for Advancement of Science, hosted at the US Environmental Protection Agency in Washington DC. In that capacity, he started research on integrative system modeling to integrate heterogeneous data systems along 'adverse outcome pathways' using Bayesian hierarchical and network models and computational methods. Dr. Zhu has served on many committees and advisory boards, including those of the National Academies of Science, Engineering, and Medicine, US EPA, the Federal Commission on Consumer Product Safety, CDC, and HRSA. He is interested in both substantive and methodological issues arising from the intersection of environment, health policy and system, and health. His current work touches upon spatiotemporal modeling of metal mixtures in PM2.5, finite mixture models of CD4 trajectory for clinical management of HIV/AIDS, exposure assessment of indoor biohazards, and causal inference in natural experiment settings.