

## 8th New Researchers Conference

### Schedule of Talks

- Session 1 (9:00–10:15 Wednesday 8/3) Chair: Johanna Hardin

1. Liang Li  
Cleveland Clinic Foundation  
lli@bio.ri.ccf.org  
Some Measurement Error Models with Complicated Error Structures
2. Wenbin Lu  
North Carolina State University  
wlu4@stat.ncsu.edu  
Marginal Regression of Multivariate Event Times Based on Linear Transformation Models
3. Zeng-Hua Lu  
University of South Australia  
Zen.Lu@unisa.edu.au  
A Mixture Model of Heterogeneous Covariates with an Application to the Censored Dependent Variable
4. Damla Senturk  
The Pennsylvania State University  
dsenturk@stat.psu.edu  
Covariate Adjusted Regression
5. Ayrin Molefe  
University of Central Arkansas  
calachan@yahoo.com  
An Extension of the Neyman-Johnson Technique to Binary Regression
6. Jeffrey Thompson  
North Carolina State University  
thompson@stat.ncsu.edu  
Estimation of Generalized Simple Measurement Error Models with Instrumental Variables

• Session 2 (10:45–12:00 Wednesday 8/3) Chair: Murali Haran

1. John Aston  
Institute of Statistical Science Academia Sinica  
jaston@stat.sinica.edu.tw  
Waiting Time Distributions for Runs and Patterns in Higher Order Markovian Sequences
2. Antar Bandyopadhyay  
Chalmers University of Technology  
antar@math.chalmers.se  
Recursive Distributional Equations : Application to Hard-Core Model on Random Graphs
3. John Beam  
University of Wisconsin Oshkosh  
beam@uwosh.edu  
Expectations for Coherent Probabilities: Defining the Integral
4. Gabriel Chandler  
Connecticut College  
gabriel.chandler@conncoll.edu  
Classification of Locally Stationary Time Series via the Excess Mass Functional
5. George Kordzakhia  
University of California, Berkeley  
kordzakh@stat.Berkeley.EDU  
Stochastic spatial models of species competition and predator-prey interactions
6. Arni SR Srinivasa Rao  
University of Guelph  
arnirao@uoguelph.ca  
Limit theorems approach in epidemic reporting and virus dynamics

• Session 3 (14:00–15:15 Wednesday 8/3) Chair: Damla Senturk

1. Kimberly Drews  
Texas A & M University  
kdrews@stat.tamu.edu  
A Likelihood Based Approach to the Analysis of Coordinated Response Among Colonic Crypts
2. Chiu-Hsieh Hsu  
University of Arizona  
phsu@azcc.arizona.edu  
Joint Modeling of Recurrence and Progression of Adenomas: A Latent Variable Approach
3. John Kern  
Duquesne University  
kern@mathcs.duq.edu  
Bayesian Modeling Strategies for Longitudinal Frequency Data
4. Dacheng Liu  
University of Rochester  
dliu@bst.rochester.edu  
Mixed-effects state space models
5. Brian Smith  
The University of Iowa  
brian-j-smith@uiowa.edu  
Statistical Issues in the Study of Residential Radon
6. Hongtu Zhu  
Columbia University and New York State Psychiatric Institute  
zhuh@childpsych.columbia.edu  
Latent Variable Models and NeuroInformatics

- Session 4 (9:00–10:15 Thursday 8/4) Chair: Galin Jones

1. Jose Blanchet  
Harvard University  
blanchet@fas.harvard.edu  
Approximations and Computational Algorithms in Stochastic Modeling
2. Brian Caffo  
Johns Hopkins University  
bcaffo@jhsp.h.edu  
Statistical reconstruction algorithms in SPECT imaging
3. Samantha Cook  
Columbia University  
cook@stat.columbia.edu  
Validation of Software for Bayesian Models using Posterior Quantiles
4. Murali Haran  
The Pennsylvania State University  
mharan@stat.psu.edu  
Monte Carlo for spatial models: two issues and some relevant methodology
5. Johan Lim  
Texas A & M  
johanlim@stat.tamu.edu  
Function Estimation with Shape or Order Constraints
6. Junni Zhang  
Peking University  
zjn@gsm.pku.edu.cn  
Causal Inference, Sequential Monte Carlo and Clustering

- Session 5 (10:45–12:00 Thursday 8/4) Chair: Brian Caffo

1. Pankaj K. Choudhary  
University of Texas at Dallas  
pankaj@utdallas.edu  
Assessment of Agreement Using Tolerance Intervals
2. Yongchao Ge  
Mount Sinai School of Medicine  
Yongchao.Ge@mssm.edu  
An Upper Confidence Bound of the False Discovery Proportion
3. Mark Inlow  
Rose-Hulman Institute of Technology  
inlow@rose-hulman.edu  
New Goodness-of-Fit/Goodness-of-Link Smooth Tests
4. Woncheol Jang  
Duke University  
wjang@stat.duke.edu  
Uniform Confidence Sets for Densities
5. Jiashun Jin  
Purdue University  
jinj@stat.purdue.edu  
Sparse Inference in Large Scale Multiple Comparisons and False Discovery Rate Thresholding
6. Jin Wang  
Northern Arizona University  
Jin.Wang@NAU.EDU  
On Peakedness, Kurtosis, and Tailweight

- Session 6 (15:30–16:45 Thursday 8/4) Chair: Lexin Li
  1. Yajun Mei  
Fred Hutchinson Cancer Research Center  
ywei@fhcrc.org  
Change-point problems and information fusion
  2. Claude Messan Setodji  
RAND  
setodji@rand.org  
Multivariate variable reduction and applications
  3. Russell Stocker  
Mississippi State University  
rstocker@math.msstate.edu  
Some Results Concerning A General Class of Parametric Models for Recurrent Event Data
  4. Antai Wang  
Georgetown University  
aw94@georgetown.edu  
Parameter Estimation in Bivariate Copula Models
  5. Haonan Wang  
Colorado State University  
wanghn@stat.colostate.edu  
Object oriented data analysis: sets of trees
  6. Gideon Zamba  
The University of Iowa  
GZamba@mail.public-health.uiowa.edu  
Quality Control Techniques for Disease Monitoring: An example in the Area of Syndromic Surveillance

- Session 7 (9:00–10:00 Friday 8/5) Chair: Jeffrey Thompson

1. Kevin Gross  
North Carolina State University  
gross@stat.ncsu.edu  
Estimating abundances from count data for species with discrete generations
2. Samantha Bates Prins  
Virginia Tech  
sbates@vt.edu  
Scaling by Reference Conditions for Ecological Assessment
3. George Sirbu  
Bentley College  
GSIRBU@bentley.edu  
Optimizing Adaptive Design with Covariates
4. Patrick J. Wolfe  
Harvard University  
patrick@deas.harvard.edu  
A Bayesian Approach to Imputation of Missing Data Values in Audio Time Series

- Session 8 (10:50–11:50 Friday 8/5) Chair: Peter Craigmile

1. Amelia M. Haviland  
RAND  
haviland@rand.org  
Causal Inferences with Group Based Trajectory Models
2. Aleksandra B. Slavkovic  
The Pennsylvania State University  
sesa@stat.psu.edu  
Statistical Disclosure Limitation Beyond the Margins
3. Elizabeth Stuart  
Mathematica  
EStuart@Mathematica-Mpr.com  
Matching with multiple control groups and adjusting for differences between the groups
4. Donglin Zeng  
University of North Carolina  
dzeng@bios.unc.edu  
General Transformation Hazard Models in Survival Analysis

- Session 9 (9:00–10:00 Saturday 8/6) Chair: Aleksandra Slavkovic

1. Swati Biswas

The University of Texas-MD Anderson Cancer Center

sbiswas@mdanderson.org

Modeling Locus Heterogeneity in Linkage Analysis

2. Xueli Liu

University of Florida

xueli@stat.ufl.edu

Detecting Differentially Expressed Time Course Gene Expression Profiles

3. Jing Qiu

University of Missouri

qiuqing@missouri.edu

Sharp Simultaneous Intervals for the Means of Selected Populations with Application to Microarray Data Analysis

4. Heather Turner

The University of Warwick

Heather.Turner@warwick.ac.uk

Clustering Microarray Data

5. Jing Wu

Purdue University

jingwu@stat.purdue.edu

Improving the Specificity of Gene Prediction Using Genomic Homology

- Session 10 (11:30–12:30, Saturday 8/6) Chair: Gideon Zamba

1. Tatiyana V. Apanasovich

Cornell University

tanya@orie.cornell.edu

Semiparametric Spatial Modeling of Binary Outcomes

2. Michael Levine

Purdue University

mlevins@stat.purdue.edu

Variance Estimation in Nonparametric Regression – A Possible Approach

3. Lexin Li

University of California, Davis

lexli@ucdavis.edu

Sufficient Dimension Reduction in High-dimensional Data



4. Anna Liu

University of Massachusetts Amherst

anna@math.umass.edu

Hypothesis Testing in Smoothing Spline Models

5. Richard Samworth

Cambridge University

R.J.Samworth@statslab.cam.ac.uk

First order properties of k-nearest neighbor and bagged nearest-neighbor classifiers