

PIPELINES INTO BIOSTATISTICS

SPQS Annual Symposium

Thursday, July 23rd

Dana-Farber Cancer Institute - Smith Building, Room 308/309

8:30 - 9:00am **Registration & Breakfast**

Session I - Opening Remarks and Introductions

9:00 - 9:20am

Rebecca Betensky

Professor of Biostatistics and Principal Investigator
Harvard T.H. Chan School of Public Health

Meredith Rosenthal

Associate Dean for Diversity and Professor of Health Economics and Policy
Harvard T.H. Chan School of Public Health

Xihong Lin

Henry Pickering Walcott Professor of Biostatistics and Chair of the Department
Harvard T.H. Chan School of Public Health

Session II – Keynote Speaker

9:20 - 10:20am

Climate Change: Expanding the Impact of Diversity Interventions in Higher Education

Sherilynn Black, Assistant Professor of the Practice in Medical Education, Director of the Office of Biomedical Graduate Diversity, and Co-Principal Investigator of the BioCoRE program, Duke University.

Session III – Summer Program Research Project Presentations

10:25 - 10:45am

Automated Phenotyping of Patient EMR Data: Feature Extraction and Selection

Rolando Acosta, University of Puerto Rico, Humacao '16

William Artman, University of Rochester '16

Cassandra Burdziak, Rutgers University '16

Faculty Mentor: **Tianxi Cai**, Professor of Biostatistics

Harvard T.H. Chan School of Public Health

Graduate Mentor: **Sheng Yu**, Harvard T.H. Chan School of Public Health

10:50 - 11:10am

Differential Outcomes by SES in Children Undergoing Treatment for Acute Lymphoblastic Leukemia

Sergio Barrera, University of Arizona '16

Randy Davila, University of California, Davis '17

Emily Roberts, Coe College '16

Faculty Mentor: **Donna Neuberg**, Senior Lecturer on Biostatistics, Dana-Farber Cancer Institute and Harvard T.H. Chan School of Public Health

Mentors: **Traci Blonquist, MS** Dana-Farber Cancer Institute

Graduate Mentor: **Joey Antonelli**, Harvard T.H. Chan School of Public Health

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11:15 - 11:30am **Break & Refreshments**

11:30 - 11:50am *The Effects of Environmental Factors and the BRCA Genetic Mutation on Ovarian Cancer Risk*

Andrea Lane, University of North Carolina, Chapel Hill '16

Jennifer Osei, Cornell University '14

Nathalie Quiroz, Stony Brook University '15

Faculty Mentor: **Eric Tchetgen Tchetgen**, Professor of Biostatistics and Epidemiologic Methods, Harvard T.H. Chan School of Public Health

Graduate Mentor: **Kathy Evans**, Harvard T.H. Chan School of Public Health

11:55 - 12:15pm *The Effects of Probe Sequencing On Microarray Gene Expression Measurements*

Kevin Kupiec, Lake Forest College '17

Randy Williams, Fordham University '15

Pedro Agrinsoni Munoz, University of Puerto Rico, Humacao '15

Faculty Mentor: **Rafa Irizarry**, Professor of Biostatistics, Dana-Farber Cancer Institute and Harvard T.H. Chan School of Public Health

Graduate Mentor: **Ryan Sun**, Harvard T.H. Chan School of Public Health

Session IV – Summer Program Alumni: Conversation Over Lunch

12:20 - 2:00pm *Journeys in Biostatistics After the Summer Program*

Please take a moment to visit project posters of our recent alumni:

Gene Regulation by Histone Methyltransferases in S.Cervisiae

Grace Choi, University of Maryland, Baltimore County '16

Development of Computational Tools to Enable Data Driven Research, with a Focus on Visualization and Exploration of Genomics and Epigenomics Data

Jake Conway, University of Massachusetts, Lowell '16

A Comparison of Prominent Models to Predict the Malignancy of Solitary Pulmonary Nodules

Lilyana Gross, California State University, Monterey Bay '15

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Session V – Pipelines, Mentoring, and Strategies

2:00 - 3:00pm *Advocating for Diversity from a Personal & Professional Perspective*
Minerva Cordero, Associate Dean and Professor of Mathematics,
University of Texas at Arlington

Session VI – Post-Baccalaureate Research Project Presentations

3:00 - 3:20pm *Contrasting Breast Cancer Subtypes by Analyzing Differences in Network Structure*
Kamrine Poels, Post-baccalaureate Program Participant

Faculty Mentor: **John Quackenbush**, Professor of Computational Biology and
Bioinformatics, DFCI & Harvard T.H. Chan School of Public Health

3:25 - 3:45pm *The Sexual Network of HIV in Botswana*
Felicia Gibson, Post-baccalaureate Program Participant

Faculty Mentor: **Victor DeGruttola**, Professor of Biostatistics
Harvard T.H. Chan School of Public Health

3:45 - 4:00pm *Closing Remarks*
Rebecca Betensky
Professor of Biostatistics and Principal Investigator
Harvard T.H. Chan School of Public Health