PIPELINES INTO **BIOSTATISTICS**

Annual Symposium

Thursday, July 21st
Dana-Farber Cancer Institute - Yawkey Building, Room 306/307

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 of
Biostatistics, Harvard T.H. Chan School of Public Health

Session II – Keynote Speaker

9:20 - 10:20am   *Biostatistics: Paving the Way in the Big Data Era*
DuBois Bowman, Professor of Biostatistics and Chairman of the Department of
Biostatistics, Mailman School of Public Health, Columbia University

Session III – Summer Program Research Project Presentations

10:25 - 10:45am   *Changes in Health-Related Quality of Life after Bone Marrow Transplantation for
Severe Sickle Cell Disease*
Thabat Dahdoul, California State University – Fullerton '17
Rebekah Loving, University of Hawaii – Hilo '19
Marcus Spearman, Johns Hopkins University '17

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

10:50 - 11:10am   ***Break & Refreshments***

11:10 - 11:30am   *Controversy in Pharmacogenomics*
Alejandra DeJesús-Soto, University of Puerto Rico – Cayey '17
Mark Ruprecht, University of Minnesota – Twin Cities '18
Patricia Vera-González, University of Puerto Rico – Río Piedras '17

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

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11:35 - 11:55am
Design Considerations for Two-Phase Studies in Cluster-Correlated Settings, with Application to Anti-Retroviral Treatment Programs in Resource-Limited Settings
Matthew Blake, Boston College '16
Maria Fernandes, UMass Amherst '17
Deja Washington, Xavier University of Louisiana '17

Faculty Mentor: **Sebastien Haneuse**, Associate Professor of Biostatistics, Harvard T.H. Chan School of Public Health
Postdoc Mentor: **Claudia Rivera**, Harvard T.H. Chan School of Public Health

12:00 - 12:20pm
The Politics of Power Plants: Is Congressional Voting Associated with Pollution Emissions?
Janelle Walker, Medgar Evers College '16
Joseph Zoller, Carnegie Mellon University '18

Faculty Mentor: **Cory Zigler**, Assistant Professor of Biostatistics, Harvard T.H. Chan School of Public Health
Postdoc Mentor: **Chanmin Kim**, Harvard T.H. Chan School of Public Health

12:25 - 12:45pm
Predicting Diabetes Diagnosis in African Americans Using Ensemble Machine Learning
Kimberlyn Bailey, Le Moyne College/SUNY Owsego '16
Jarvis Miller, Rice University '16
Valerie Santiago González, University of Puerto Rico – Río Piedras '17

Faculty Mentor: **Sherri Rose**, Associate Professor, Department of Health Care Policy, Harvard Medical School
Graduate Mentor: **Savannah Bergquist**, Harvard University

Session IV – Summer Program Alumni Panel: Conversation Over Lunch
12:50 - 2:00pm
Networking Lunch
Please take a moment to visit project posters of our recent alumni!

2:00 - 2:45pm
Journeys in Biostatistics After the Summer Program
Scarlett Bellamy, Professor of Biostatistics in Biostatistics and Epidemiology at HUP
Quincy Greene, The Center for Education and Public Initiatives (CEPI), College of Physicians of Philadelphia
Rebecca Hubbard, Associate Professor of Biostatistics, University of Pennsylvania School of Medicine
DeJuran Richardson, Professor of Mathematics and Computer Science, Lake Forest College
Jennifer Smith, Epidemiologist, United States Public Health Service

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Session V – Post-Baccalaureate Research Project Presentations

2:50 - 3:10pm   *Binary Instrumental Variable Model For Causal Inference*
Jimmy Nguyen, Post-Baccalaureate Program Participant

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

3:15 - 3:35pm   *Prenatal Metal Exposures and Birthweight in Mexico City*
Marcia Higgins, Post-Baccalaureate Program Participant

Faculty Mentor: **Brent Coull**, Professor of Biostatistics and Associate Chair of the Department of Biostatistics, Harvard T.H. Chan School of Public Health

3:40 - 3:55pm   *Closing Remarks*
Rebecca Betensky
Professor of Biostatistics and Principal Investigator,
Harvard T.H. Chan School of Public Health