



PIPELINES INTO BIOSTATISTICS

Annual Symposium

Thursday, July 20th

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

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

Session I - Opening Remarks and Introductions

9:00 - 9:25am

Marcello Pagano

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

Betty Johnson

Assistant Dean for Faculty and Staff Diversity, Development and Leadership
Harvard T.H. Chan School of Public Health

Eric Tchetgen Tchetgen

Professor of Biostatistics and Epidemiological Methods
Harvard T.H. Chan School of Public Health

Session II – Keynote Speaker

9:25 - 10:25am

Latent Variable Models: Applications in Aging and Obesity Prevention Studies

Knashawn H. Morales

Associate Professor of Biostatistics, Departments of Biostatistics and Epidemiology
University of Pennsylvania

Session III – Summer Program Research Project Presentations

10:25 - 10:45am

Controversy in Pharmacogenomics

Jace Gilbert, University of Nevada, Reno '17

Jeff Joseph, Bowdoin College '19

Daniel Meza, Monterey Bay State University '17

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

Graduate Student Mentor: **Sheila Gaynor**, Harvard T.H. Chan School of Public Health

10:50 - 11:10am

Break & Refreshments

11:10 - 11:30am

*Changes in Health-Related Quality of Life after Bone Marrow Transplantation for
Severe Sickle Cell Disease*

Danielle Baldwin, Hampton University '17

Reibin Hiraldo, Salem State University '17

Silvio Martinez, University of Florida '19

Faculty Mentor: **Jukka-Pekka Onnela**, Associate Professor of Biostatistics,
Harvard T.H. Chan School of Public Health

Postdoc Mentor: **Patrick Staples**, Harvard T.H. Chan School of Public Health

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11:35 - 11:55am

Estimating and Understanding Gene Regulatory Networks

Andrea Ovalle, Smith College '18

Ula Widocki, The College of New Jersey '18

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

Postdoc Mentor: **John Platig**, Harvard University, Dana Farber Cancer Institute

12:00 - 12:20pm

Tracking air pollution from power plants: Mapping regulations to populations

David Angeles, California State University, Northridge '18

Alexandra Carruthers Ferrero, University of Puerto Rico – Río Piedras '18

Jovaniel Rodriguez Maldonado, University of Puerto Rico – Río Piedras '19

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

Machine Learning for Health Outcomes Prediction

Alicia Dominguez, University of New Mexico '17

Julia Thome, Cornell College '18

Tyler Vu, California State University, Fullerton '18

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

Graduate Student 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

Wen-kuni Ceant, Fulbright Scholar, Drexel University Dornsife School of Public Health

Jeff Gardner, President & Principal Consultant, DataPharm Statistical & Data Management Services

Portia Parker, SAS Analytical Tester

DeJuran Richardson, Professor of Mathematics and Computer Science, Lake Forest College

Ronnie Sebro, Assistant Professor of Radiology Musculoskeletal Imaging, Department of Radiology, University of Pennsylvania

Marcia Tan, Postdoctoral Fellow in Cancer Prevention and Control, Northwestern University

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Session V – Post-Baccalaureate Research Project Presentations

2:50 - 3:10pm

Viral Genetic Clustering by Poverty and Site in Black MSM

Julia Kobe, Wentworth Institute of Technology '17

Post-Baccalaureate Program Participant

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

Graduate Student Mentor: **Kamrine Poels**, Harvard T.H. Chan School of Public Health

3:15 - 3:35pm

The Impact of Air Pollution on Maternal Blood Pressure in the VIVA Cohort

Christina Howe, Simmons College '17

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

Graduate Student Mentor: **Kamrine Poels**, Harvard T.H. Chan School of Public Health

3:40 - 3:55pm

Closing Remarks

Marcello Pagano

Professor of Statistical Computing and Principal Investigator

Harvard T.H. Chan School of Public Health