

PIPELINES INTO BIOSTATISTICS

Faculty Workshop

Wednesday, July 23rd

Harvard School of Public Health - Building II, Room 426

12:30 - 1:00pm **Registration**

Session I - Opening Remarks and Introductions

1:00 - 2:10pm

Welcome

Rebecca Betensky, Harvard School of Public Health

Gurdial Arora, Xavier University of Louisiana

Visiting Faculty Introductions

Gurdial Arora, Xavier University of Louisiana

Donna Stutson, Xavier University of Louisiana

William Velez, University of Arizona

Ulrica Wilson, Morehouse College

Session II - Admissions Overview: What Do We Look For In Prospective Students?

2:10 – 3:05pm

HSPH Admissions

Vincent James, Harvard School of Public Health

Admission to the Biostatistics Master's and PhD Programs

David Wypij, Harvard School of Public Health

Victor DeGruttola, Harvard School of Public Health

Academic Preparation for First Year PhD Courses

Brent Coull, Harvard School of Public Health

Eric Tchetgen Tchetgen, Harvard School of Public Health

3:05 – 3:20pm

Break & Refreshments

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Session III - What is Biostatistics, and Why Should Math and Quantitative Majors Consider It?

3:20 – 4:20pm

Controlling the HIV Epidemic Using Network Science

Victor DeGruttola, Harvard School of Public Health

Understanding Gene Regulation Through Integrated Analysis of Genomic Data

Guo-Cheng Yuan, Harvard School of Public Health

Inverse Probability of Censoring Weighting with Applications to HIV Progression

Judith Lok, Harvard School of Public Health

Network Inference in Biological Systems: Using Data to Discover Complex Relationships

John Quackenbush, Harvard School of Public Health & Dana-Farber Cancer Institute

4:20 – 4:30pm

Break

4:30 – 5:15pm

Statistical Analysis of Big Genetic and Genomic Data

Xihong Lin, Harvard School of Public Health

Environmental Exposures: Do They Affect Reproductive and Child Health Outcomes?

Paige Williams, Harvard School of Public Health

The Human Microbiome in Health and Disease

Xochitl Morgan, Harvard School of Public Health

Session IV - Visiting Faculty Dinner (Kresge 110)

5:45pm

Dinner

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Friday, July 25th

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Session I – HSPH Student Presentations and Discussion

9:30 - 10:30am *Graduate Students' Journeys to Biostatistics at HSPH*
Christina McIntosh, PhD Candidate
Heather Mattie, PhD Candidate
Sarah Anoke, PhD Candidate
Catherine Lee, PhD Candidate

Session II – Summer Program Student Reflections

10:35 - 11:05am *Summer Program Student Reflections*
Jamaris Burns, Johnson C. Smith University '15
Esther Fevrier, Amherst College '13
Lilyana Gross, California State University, Monterey Bay '15
Havell Markus, Arizona State University '17
Savion Smith, Arizona State University '13
Christine Ulysse, Cornell University '14

11:10 - 11:20am *HSPH Biostatistics Pipeline Programs & Graduate Programs Recruitment*
Tonia Smith, Diversity Coordinator

11:20 - 11:30am *Faculty Workshop Evaluation*
Dan Finkelstein, Program Evaluator

Session III – Closing Ceremony

11:30 - 12:00pm *Certificate Presentations*
Meredith Rosenthal
Associate Dean for Diversity & Professor of Health Economics and Policy
Harvard School of Public Health

12:00-1:00pm **Lunch**