

PIPELINES INTO BIOSTATISTICS

SPQS Annual Symposium

Thursday, July 24th

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

Welcome & Introductions

Rebecca Betensky

Professor of Biostatistics & Principal Investigator, Harvard School of Public Health

Meredith Rosenthal

Associate Dean for Diversity & Professor of Health Economics and Policy
Harvard School of Public Health

Session II – Keynote Speaker

9:20 - 10:05am

You Want to Quantify That?! Developing Quantitative Measures for Community Engagement in Research, Multi-Environment Life Course Segregation & White Privilege

Melody S. Goodman

Assistant Professor of Surgery, Washington University in St. Louis School of Medicine

Session III – Summer Program in Quantitative Sciences Research Project Presentations

10:10 - 10:30am

Prenatal Exposure to Maternal Stress and Childhood Wheeze in an Urban Boston Cohort

Lilyana Gross, California State University, Monterey Bay '15

Taylor Mahoney, Simmons College '15

Christine Ulysse, Cornell University '14

Faculty Mentor: **Brent Coull**

Professor of Biostatistics, Harvard School of Public Health

Graduate Mentor : **Mark Meyer**, Harvard School of Public Health

10:35 - 10:55am

Comparing Subtypes of Breast Cancer Using a Message-Passing Network

Kamrine Poels, SPQS Post-Bac Intern, University of Arizona '14

Faculty Mentor: **John Quackenbush**

Professor of Computational Biology and Bioinformatics
Harvard School of Public Health & Dana-Farber Cancer Institute

11:00-11:15am

Break & Refreshments

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Session III – Summer Program in Quantitative Sciences Research Project Presentations

- 11:15 - 11:35am *Protective Effects of Propranolol in Adults Following Severe Burn Injury:
A Safety and Efficacy Trial*
Avery Yuan, SPQS Post-Bac Intern, Suffolk University '13
- Faculty Mentor: **David Schoenfeld**
Professor of Biostatistics, Massachusetts General Hospital & HSPH
- 11:40 - 12:00pm *Quantifying RNA Levels from RTPCR Curves: A New Method for Single Cell Analysis*
Esther Fevrier, Amherst College '13
Havell Markus, Arizona State University '17
Savion Smith, Arizona State University '13
- Faculty Mentor: **Rafael Irizarry**
Professor of Biostatistics, Dana-Farber Cancer Institute
- Graduate Mentor: **Stephanie Chan**, Harvard School of Public Health
- 12:05 - 12:25pm *A Study of Social Networks in Karnataka India*
Lisbeth Acosta, UMass Amherst '14
Jamaris Burns, Johnson C. Smith University '15
Emmie Roman Melendez, University of Puerto Rico, Mayaguez '15
- Faculty Mentor: **Jukka-Pekka Onnela**
Assistant Professor of Biostatistics, Harvard School of Public Health
- Graduate Mentor: **Patrick Staples**, Harvard School of Public Health
- 12:30 - 12:50pm *Evaluation of Gene-Environment Interaction for Ovarian Cancer*
Grace Choi, University of Maryland Baltimore County '16
Jake Conway, UMass Lowell '16
Nicholas Escanilla, Lake Forest College '16
- Faculty Mentor: **Eric Tchetgen Tchetgen**,
Associate Professor of Biostatistics and Epidemiologic Methods
Harvard School of Public Health
- Graduate Mentor: **Caleb Miles**, Harvard School of Public Health
- 12:50-1:50pm **Lunch**

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Session IV – Summer Program in Quantitative Sciences Alumni Panel

1:50 - 2:50pm

Journeys in Biostatistics after the Summer Program in Quantitative Sciences

Panel Participants

Binta Beard, Principal, Podesta Group

Felicia Browne, HSPH Social and Behavioral Sciences Doctoral Candidate

E. Andres Houseman, Associate Professor in Biostatistics, Oregon State University

Cassandra Johnson, Assistant Professor of Surgery, Washington University

Portia Parker, Sr. Associate Analytical Software Tester, SAS

Ronnie Sebro, Radiologist, Massachusetts General Hospital

Session V – Pipelines, Mentoring and Strategies

2:50 - 3:20pm

Lessons Learned in Building Diversity in STEM PhD Programs

Ulrica Wilson

Associate Professor of Mathematics, Morehouse College

3:20-3:40pm

Break & Refreshments

3:40 - 4:10pm

Mentoring: Changing Students' Career Paths

William Velez

Distinguished Professor of Mathematics, The University of Arizona

4:10 - 4:40pm

Diversity Efforts at Harvard

Sheila Thomas

Director of Diversity and Minority Affairs, Harvard Medical School

Discussion and Closing Remarks

4:40 - 5:00pm

Rebecca Betensky

Professor of Biostatistics & Principal Investigator, Harvard School of Public Health