

PIPELINES INTO BIOSTATISTICS

2015 Summer Program

Sunday, June 14 – Saturday, July 25, 2015

WEEK 1

Sunday, June 14th

12:30pm

Program Outing: Boston Duck Tour

<http://www.bostonducktours.com/the-tour/>

Alex Ocampo and Octavious Talbot, Social Mentors, will meet you at the entrance of the Mass Art Treehouse at 12:30pm.

6:00pm

Welcome Dinner

The Mission Bar & Grill located at 724 Huntington Avenue (in Brigham Circle). You will travel on your own to this event or you may wish to take the MBTA 3 stops to the Brigham Circle stop.

Monday, June 15th

9:00 - 11:00am

Orientation, 2-426

Rebecca Betensky, Professor of Biostatistics

Tonia Smith, Diversity Coordinator

11:00 - 12:00pm

Program Evaluation Overview, 2-426

Dan Finkelstein

1:00 - 2:00pm

Research Introduction, 2-426

PROJECT 1: Feature extraction and selection for phenotyping algorithms

Dr. Tianxi Cai tcai.hsph@gmail.com

Sheng Yu yusir@outlook.com

PROJECT 2: Are there differential outcomes by socioeconomic status (SES) for children with acute lymphoblastic leukemia?

Dr. Donna Neuberger neuberger@jimmy.harvard.edu

Traci Blonquist tracib@jimmy.harvard.edu

Joey Antonelli jantonelli@fas.harvard.edu

PROJECT 3: Evaluation of gene-environment interaction for ovarian cancer

Dr. Eric J Tchetgen Tchetgen etchetge@hsph.harvard.edu

Kathy Evans kevans@fas.harvard.edu

PROJECT 4: Data Science Projects

Dr. Rafa Irizarry rafa@jimmy.harvard.edu

Ryan Sun ryansun@fas.harvard.edu

2:00 - 4:00pm

Programming Workshop, Kresge 209

Tuesday, June 16th

9:00 - 11:30am

Introduction to Biostatistics, FXB G10

Instructor: Heather Mattie

Doctoral Student, HSPH Biostatistics

The material in this course will be covered over a 4-week period. This class will take place each morning from 9:30 am – 11:30am M-Th and 9-10am on Fri, unless otherwise noted. Introduction to Biostatistics acquaints the student with the basic concepts and methods of biostatistics, their applications, and their interpretation. The material covered includes data presentation, numerical summary measures, rates and standardization, and life tables. Probability is introduced to quantify uncertainty, especially as it pertains to diagnostic and screening methods. Also covered are sampling distributions so that students may be introduced to confidence intervals and hypothesis testing. The computer is used throughout the course, and the student will gain familiarity with the software package STATA.

11:30 - 1:30pm

Research Group Meetings

Use this time to have your first meeting with your faculty research mentor and assistant research mentor to discuss your summer research project.



WEEK 1

5:30 - 6:30pm
6:30 - 9:00pm

Kaplan Orientation, Kresge G1 [dinner provided]
Kaplan GRE Prep Course (#1), Longwood Medical Area
Longwood Medical GRE Prep classrooms

All classes are held at the Harvard T.H Chan School of Public Health (651-677) Huntington Avenue. Classes are held in either the François-Xavier Bagnoud (FXB) building located at 651 Huntington Avenue or the Kresge Building located at 677 Huntington Avenue. Please note that the buildings are connected but they also have separate entrances.

M2 Shuttle stop to FXB

The final shuttle stop (Vanderbilt Hall) is on Avenue Louis Pasteur. Take a left onto Longwood Avenue. The Harvard Medical School quad will be on the right. Walk down Longwood Avenue until you get to the traffic light, which is Huntington Avenue. Make a right onto Huntington Avenue and walk to 651 Huntington. The main entrance of FXB is on your right. After you enter, make a right at the security desk. You'll see an atrium with a staircase to the left - this staircase will take you to the FXB ground level classrooms.

M2 Shuttle stop to Kresge

The final shuttle stop (Vanderbilt Hall) is on Avenue Louis Pasteur. Make a slight left onto Longwood Avenue and follow the stairs adjacent to the Harvard Medical School Quad. Walk alongside the mall, and take the stairs up from the Quad. Gordon Hall will be in front of you. Make a left and follow the sidewalk towards Countway Library. Make a left at Countway library and walk down the stairs. You will be in the School of Public Health's courtyard facing Kresge building. Walk up the stairs to the Kresge entrance where there is a security desk and the cafeteria on your right. All Kresge classes are either on the ground or second floor, which you can get to through the stairwell in the cafeteria.

Cambridge Campus GRE Prep classrooms

Science Center is at 1 Oxford Street. From the last stop in Harvard Square on the M2 shuttle, walk a few yards up Mass Ave and take a right through the McKean gate (immediately past the bus stop shelter) into Harvard Yard. Follow that path straight through the Yard (past the John Harvard statue – rub the foot for good luck!), exiting the other side. The Science Center is directly in front of you.

Wednesday, June 17th

- 9:00 - 11:30am **Introduction to Biostatistics**, FXB G10
- 3:15- 5:15pm **Programming Workshop**, Kresge 209
- 5:30- 7:30pm **Evening Conversation** [dinner provided], Nancy Krieger, FXB G13

Thursday, June 18th

- 9:00 - 11:30am **Introduction to Biostatistics**, FXB G10
- 3:15- 5:15pm **Programming Workshop**, Kresge 209
- 5:30- 7:30pm **Evening Conversation** [dinner provided], David Christiani, Kresge 502

Friday, June 19th

- 9:00 - 10:00am **Introduction to Biostatistics**, FXB G10
- 10:00am - 12:00pm **Professional Development Workshop Series**, Bldg 2- 426
Workshop 1: Networking 101
Carol Martin, Program Manager, The Harvard Clinical and Translational Science Center, Harvard Medical School
- 12:30 - 2:00pm **Harvard Chan School Department of Biostatistics Admissions** [lunch provided], Bldg 2- 426
Paige Williams, Director of Graduate Studies, Senior Lecturer on Biostatistics

Saturday, June 20th

- 10:00- 12:30 **Kaplan GRE Prep Course (#2)**, Harvard Cambridge Campus, Science Center 109, 110, 112; Cambridge, MA



WEEK 2

Monday, June 22nd

- 9:00 - 11:30am **Introduction to Biostatistics**, FXB G10
- 11:30am - 1:00pm **Chat & Chew:** Biostatistics Graduate Students [lunch provided], 2-426
- 1:00 - 4:00pm **Program Outing: Harvard Tour**, 2-426
Sarah Anoke, Biostats Doctoral Student

Tuesday, June 23rd

- 9:00 - 11:30am **Introduction to Biostatistics**, FXB G10
- 12:30- 2:00pm **Afternoon Seminar** [lunch provided], Bldg 2- 426
Francesca Dominici Department of Biostatistics Harvard Chan School
- 5:30- 6:30pm **Evening Conversation** [dinner provided], David Williams, Kresge 502
- 6:30- 9:00pm **Kaplan GRE Prep Course (#3)**, Harvard Longwood Campus, FXB G11 & 12, Kresge 204

Wednesday, June 24th

- 9:00 - 11:30am **Introduction to Biostatistics**, FXB G10
- 2:30- 5:00pm **10th Annual Summer Gathering**

Organized by Harvard Integrated Life Sciences (HILS) member programs & the Graduate School of Arts & Sciences (GSAS), this program will provide information for your interns about graduate school opportunities and application procedures. Representatives from our HILS member programs and Harvard's graduate schools and departments will be on hand to talk

GSAS Graduate School Fair Program 2:30pm - 5:00pm
Location: Dudley House Dining Commons, Harvard Yard, Cambridge

HILS Summer Gathering Event
June 24, 2015 5:00pm - 7:00pm (approximate)
Location: Harvard Queens Head Pub
- 5:30- 7:00pm **Evening Conversation** [dinner provided], Eric Rimm, Kresge 502

Thursday, June 25th

- 9:00 - 11:30am **Introduction to Biostatistics**, FXB G10
- 12:30- 2:00pm **Afternoon Seminar** [lunch provided], Bldg 2- 426
Rafa Irizarry, Department of Biostatistics Harvard Chan School
- 2:30- 5:30pm **Programming Workshop, Kresge LL6**
Kresge 209 will be closed for construction. LL6 will be reserved for this programs use on the following days:

6/25/2015 Thu	3:00 PM	6:30 PM
6/26/2015 Fri	3:00 PM	6:00 PM
6/29/2015 Mon	3:00 PM	6:00 PM
6/30/2015 Tue	3:00 PM	6:00 PM

- 5:30- 7:00pm **Evening Conversation**, Max Essex & George Seage, "And the Band Played On", FXB-G13 (TBC)

Friday, June 26th

- 9:00 - 10:00am **Introduction to Biostatistics**, FXB G10
- 10:00am - 12:00pm **Professional Development Workshop Series**, Bldg 2- 426
Workshop 2: Admissions Overview: What Do We Look For In Prospective Students?
Felisa Nobles, Director of Recruitment Programs & Special Assistant to the Associate Dean of Diversity
Kerri Noonan, Associate Director of Admissions

Saturday, June 27th

- 10:00- 12:30 **Kaplan GRE Prep Course (#4)**, Harvard Cambridge Campus, Science Center 109, 110, 112; Cambridge, MA



WEEK 3

Sunday, June 28th

12:00- 3:30pm **Summer Programs BBQ** – Due to forecasted rain the venue has been changed. Please look out for an email with updates/ canvas blast from Felisa Nobles or Lia Frankfort.

Monday, June 29th

9:00 - 11:30am **Introduction to Biostatistics**, FXB G10

5:00- 6:30pm **Evening Conversation** [dinner provided], Walter Willett, Kresge 502

6:30- 9:00pm **Kaplan GRE Prep Course (#5)**, Harvard Longwood Campus, FXB G11 & 12, Kresge 204

Tuesday, June 30th

9:00 - 11:30am **Introduction to Biostatistics**, FXB G10

12:30- 2:00pm **Afternoon Seminar** [lunch provided], Bldg 2- 426
John Quackenbush, Department of Biostatistics Harvard Chan School

6:30- 9:00pm **Kaplan GRE Prep Course (#6)**, Harvard Longwood Campus, FXB G11 & 12, Kresge 204

Wednesday, July 1st

9:00 - 11:30am **Introduction to Biostatistics**, FXB G10

5:30- 7:00pm **Evening Conversation** [dinner provided], Michelle Williams, Kresge 502

Thursday, July 2nd

9:00 - 11:30am **Introduction to Biostatistics**, FXB G10

12:30- 2:00pm **Afternoon Seminar** [lunch provided], Bldg 2- 426
Sebastien Haneuse, Department of Biostatistics Harvard Chan School

Friday, July 3rd

SCHOOL CLOSED in observance of the 4th of July.

Saturday, July 4th

HOLIDAY- No class

WEEK 4

Sunday, July 5th

4:00- 6:30pm **Kaplan GRE Prep Course (#7)**, Harvard Square, Cambridge, MA

Monday, July 6th

9:00 - 11:30am **Introduction to Biostatistics**, FXB G10

5:30- 7:00pm **Evening Conversation** [dinner provided], Meredith Rosenthal

Tuesday, July 7th

9:00 - 11:30am **Introduction to Biostatistics**, FXB G10

12:30- 2:00pm **Afternoon Seminar** [lunch provided], Bldg 2- 426
Xihong Lin, Department of Biostatistics Harvard Chan School

6:30- 9:30pm **FINAL Kaplan GRE Prep Course (#8)**, Harvard Longwood Campus, FXB G11 & 12, Kresge 204

Wednesday, July 8th

9:00 - 11:30am **Introduction to Biostatistics**, FXB G10

12pm-1:30pm Joint Lunch with Stat Start, the statistics summer program for high school students.

3:00- 4:30pm **Afternoon Seminar**: “New developments in the statistical analysis of survival data; with subtitle: Advances in nonparametric curve estimation and testing under double truncation”
Dr. Carla Moreira, Post-Doctoral Fellow, Foundation for Science and Technology (FCT) from Portugal
University of Minho, Portugal & University of Vigo, Spain

7:10pm Boston Red Sox v. Miami Marlins
Fenway Park



Thursday, July 9th

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10
Instructor: Eleanor Murray
Doctoral Student, HSPH Epidemiology

This course is an introduction to the principles and methods of epidemiologic research. The course will meet regularly for 2-hour lectures. Attendance to all lectures is mandatory and you are required to be on time. If you have any questions/ concerns about any course material, level/pace of the course, etc. please feel free to contact me. This course assumes no prior knowledge of epidemiology.

Friday, July 10th

9:00 - 10:00am **Introduction to Epidemiology**, FXB G10

10:00am - 12:00pm **Professional Development Workshop Series**, Bldg 2- 426
Workshop 3: Presentation is everything: Resumes, Interviews, and How to Secure Your Next Opportunity
Randi Friedman, Director of Career Advancement
Dustin Gee, Assistant Director of Employee Relations

WEEK 5

Sunday, July 12th

Monday, July 13th

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10

Tuesday, July 14th

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10

12:30- 2:00pm **Afternoon Seminar** [lunch provided], Bldg 2- 426
Rebecca Betensky, Department of Biostatistics Harvard Chan School

5:00- 7:00pm Diversity Dialogues, Location TBC

Wednesday, July 15th

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10

Thursday, July 16th

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10

11:30 - 1:00pm **Chat & Chew: Biostatistics Faculty** [lunch provided], 2-426

5:00- 7:00pm Diversity Dialogues, Location TBC

Friday, July 17th

9:00 - 10:00am **Introduction to Epidemiology**, FXB G10

10:00am - 12:00pm **Professional Development Workshop Series**, Bldg 2- 426
Workshop 4: Personal Statement Wrap Up

WEEK 6

Monday, July 20th

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10

5:00- 7:00pm Diversity Dialogues, Location TBC

Tuesday, July 21st

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10

Wednesday, July 22nd

9:00 - 11:30am **Introduction to Epidemiology**, FXB G10

12:30- 2:00pm **Afternoon Seminar** [lunch provided], Bldg 2- 426
JP Onnela, Department of Biostatistics Harvard Chan School

5:00- 7:00pm Diversity Dialogues, Location TBC

Thursday, July 23rd

9:00 - 3:30pm **Pipelines into Biostatistics Annual Symposium**, DFCI 308/309
[Business attire]

Friday, July 24th

11:00 - 1:00pm **Pipelines into Biostatistics Certificate Ceremony** [lunch provided], 2-426