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Departments of Biostatistics, Environmental Health, Epidemiology, and Society, Human Development & Health

Harvard School of Public Health





Summer Program in Quantitative Sciences 2008





Summer Program in Quantitative Sciences, May 31 – June 28, 2008 Calendar of Events

Unless noted otherwise, AM Morning classes and other events will meet in FXB G-11 Lectures will meet in Biostatistics conference room 2-426 Intro to Stata and Computer Lab Hours will meet in Kresge 210.

FXB G-11 is reserved every day exclusively for the Summer Program from 8:30am to 5:30pm Kresge 210 is reserved every day exclusively for the Summer Program from 3:00pm to 5:00pm

WEEK ONE			
Saturday, May 31	2:00 - 5:00 pm	Summer Program Participants will arrive throughout the early afternoon and familiarize themselves with the residential hall at Wentworth Institute of Technology (WIT).	
	6:00 6:30 pm Wentworth lounge, 1 st floor 7:00 pm	Residential Hall Orientation: (Residence Hall Advisor who is on duty) Welcome Dinner: California Pizza Kitchen Address: Prudential Center (Green "E" Line, T Stop "Prudential") Phone: 617-247-0888	
Sunday, June 1	9:00 am	Meeting at the WIT for the Boston AIDS Walk Boston AIDS Walk	
	1:00 or 2:00 pm after walk	Lunch at the 21st Amendment restaurant, 150 Bowdoin St.	
Monday, June 2	8:30 am Kresge Security Desk	Pictures for IDs taken at HSPH ID Office, near Kresge Security Desk	
	8:45 am – 10:15 am Biostatistics 2-426	Breakfast: Program Introduction and Overview/Stipend Disbursement Dr. Rebecca Betenksy, Dr. Andres Houseman, Catherine Haskell, Sabrina Toomer, and Research project mentors:	
		Miguel Marino, Biostatistics Graduate student mentor Caterina Stamoulis, Biostatistics Graduate student mentor David Fardo, Biostatistics Graduate student mentor	
	10:30 am – 11:30 FXB G-11	Danya Fortess, Boston University Fill out Entrance Questionnaires	
	11:30 am – 1:00 pm	Lunch (Lunch will take place every day usually between 12:00 noon – 1:30 pm)	
	12:30 – 1:45 pm Wentworth main lounge	Wentworth Institute of Technology orientation & photo IDs taken Meet at Wentworth main 1 st floor lounge	
	2:00 – 3:00 pm FXB G-11	Project Option Presentations Student Mentors Introduction	
		Dr. Christoph Lange and David Fardo: Genetic Determinants of Alcoholism	
		Dr. Xihong Lin and Caternina Stamoulis: Examination of arsenic exposure effects on proteomic profiles	
		Dr. Paige Williams and Miguel Marino: Evaluating effects of pesticide exposure on growth and puberty onset	
	To read for class tomorrow	Homework Assignment: Read the article "PC Versus Mac: An Exploration of the Computer Preferences of Harvard Students". The article will be discussed during the first lecture of the course	

Tuesday, June 3	9:00 – 11:00 am FXB G-11	Introduction to Biostatistics Instructor: Dr. Andres Houseman Senior Research Scientist, HSPH Biostatistics HSPH Biostatistics Alumni Introduction to Biostatistics The material in this course will be covered over a 4-week period. This class will take place each morning from 9:00 am – 11:00am, unless noted otherwise. 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.				
	11:00 am – 12:00 pm 12:00 – 1:30 pm	Possible one-to-one meeting between summer students and mentors to start working on Research Projects Lunch – possible time for meeting between summer students and mentors to start working on Research Projects				
	1:30 – 3:00 pm Biostatistics 2-426	Biostatistics Lecture: Dr. Victor De Gruttola Biostatistics and HIV/AIDS research				
Wednesday June 4	9:00 - 11:00 am FXB G-11	Introduction to Biostatistics				
	12:00 – 1:30 pm Biostatistics 2-426	Catered lunch with Biostatistics students				
	1:30 - 3:00 pm Biostatistics 2-426	Environmental Health Lectura: Isabelle Anguelovski, Doctoral Student at M.I.T. Urban Studies and Planning Department Community-Based Research and Environmental Justice in Low Income and Ethnic Communities: The Case of Indigenous Communities Impacted by Oil Extraction in South America				
	6:00 pm – 8:00 pm Joseph B Martin conference center, HMS, 2nd floor lounge	Special Speaker at HSPH: Onawumi Jean Moss, Dean, Amherst College. Onawumi has won numerous awards for her keynote addresses/ storytelling. Visit her website at: www.onawumi.com				
		The Joseph B. Martin Conference Center at Harvard Medical School is a large glass building located directly across the street from the Boston Latin School, Avenue Louis Pasteur.				
Thursday June 5	9:00 – 11:00 am FXB G-11	Introduction to Biostatistics				
	12:00 – 1:30 pm	Lunch				
	2:30 – 5:00 pm	HSPH Graduation Ceremony – no other events planned				
	6:00 pm	Suggestion: The new Institute of Contemporary Art, http://www.icaboston.org/ FREE from 5:00 – 9:00 pm on Thursdays 100 Northern Avenue, Boston's waterfront				
		MBTA directions: Take the Red Line to South Station. At South Station take the Silver Line to the World Trade Center stop. Exit left onto Congress Street. Walk one block to the corner of B Street and turn right, crossing Congress Street. Follow B Street for one block. At the corner of B Street and Seaport Boulevard cross the street and turn left. At the next corner, turn right onto Northern Avenue. The ICA is on the right. You will pass the entrance to Anthony's Pier 4 and two parking lots before coming to the driveway leading to the ICA entrance.				
Friday June 6	9:00 – 11:00 am FXB G-11	Introduction to Biostatistics				
	12:00 noon – 1:30 pm Biostatistics 2 – 426	Catered Lunch with Environmental Health Students and Faculty				
	1:30 - 3:00 pm Biostatistics 2 - 426	Lecture: Dr. Jane Burns How to Read a Scientific Paper				

	3:30 – 5:00 pm Kresge 210	STATA class: Getting started with STATA Kathleen Wirth, Graduate Student, Epidemiology and STATA expert
	5:00 pm – 6:00 pm Biostatistics 2 - 426	Biostatistics department Pizza Party
Saturday		Suggested optional activities:
June 7	(Free day except for the dinner)	Tour of Harvard Campus, Harvard Square: 2:00 pm Tours start at 1350 Massachusetts Avenue, Center of Holyoke Center Arcade http://www.harvard.edu/siteguide/faqs/faq18.html
		Harvard Peabody Museum of Archaeology and Ethnology, Harvard Square, with free passes Open 9:00 am – 5:00 pm daily, 11 Divinity Avenue, near Harvard Square
		Other Harvard Museums listed at: http://www.harvard.edu/museums/
	7:00 pm	Dinner at Zaftigs, 335 Harvard Street, Coolidge Corner What has made this 'new Jewish'-style restaurant one of the best eating spots in Brookline are the less traditional offerings, including cheddar-apple omelets and banana stuffed French toast. The wild artwork and hip young wait staff seal the deal.
Sunday June 8	11:15 am (meet at 11:15 am at Boylson T Stop above ground (Green line)	
	11:30 am	Dim Sum at Chau Chow City 83 Essex St. (between Chauncy and Oxford St.) Boston MA 02111, Tel: 617-338-8158 Located in the heart of Chinatown, this acclaimed restaurant has become synonymous with dim sum, offering a breathtaking variety of Chinese delicacies. Harried servers are constantly in motion, pushing rickety carts of dim sum past curious onlookers.
	1:00 or 2:00 pm	Harbor Tour with Mass Bay Lines Tours Depart Rowes Wharf on the hour Daily 12:00pm – 5:00pm
	2:00 or 3:00 pm	New England Aquarium Central Wharf Boston (617) 973-5205 Within its compact exhibit space, the Aquarium shows off everything from a lumbering, 500-pound sea turtle to the ghostly swirl of jellyfish just inside the front entrance. Flap your wings at the African and rockhopper penguins basking in the floodlights, and welcome the little blue penguins recently added to the renovated exhibit. The little blues, the smallest of the world's 17 penguin species, are a noisy little bunch. http://www.nea.com

WEEK TWO					
Monday June 9	9:00 – 11:00 am FXB G-11	Introduction to Biostatistics			
Julie 9	11:00 am – 12:00 pm FXB G-11	Applying to HSPH			
	FAB G-11	Bob Woods, HSPH Admissions Office Dr. David Wypij, Professor, Dept. of Biostatistics Michele Brooks, Academic Services Coordinator, Dept. of Society, Human Development and Health Barbara Zuckerman, Dept. of Environmental Health			
	12:00 – 1:30 pm	Lunch			
	1:30 – 3:00 pm Biostatistics 2-426	Epidemiology Lecture: Dr. Mary Townsend, Yerby Fellow at HSPH Using epidemiology to study urinary incontinence in women			
	3:30 – 5:00 pm Kresge 210	STATA class: General lab Kathleen Wirth, Graduate Student, Epidemiology			
Tuesday June 10	9:00 – 11:00 am FXB G-11	Introduction to Biostatistics			
	11:15 – 12: 15 pm 260 Longwood	Meeting with Harvard Medical School advisors Ms. Rosa Da Silva Ms. Sherry Reddick Office of Recruitment and Multicultural Affairs			
		Location: 260 Longwood Avenue TMEC-244 Contact: sherry_reddick@hms.harvard.edu and rosa_dasilva@hms.harvard.edu (617) 432-2159			
	12:15 – 1:30pm HSPH courtyard outside	For those interested in medical and graduate school, this is a great opportunity. Bring your resumes! HSPH Picnic in the Courtyard			
		Join HSPH Dean Bloom for a school-wide picnic in the Kresge Courtyard. Free lunch and summer cheer will abound. All HSPH staff, faculty, postdoctoral fellows and students are welcome; bring your HSPH ID for entrance.			
	1:30 – 3:00 pm Biostatistics 2 - 426	Epidemiology Lecture: Sebastian Schneeweiss, MD, ScD Associate Professor of Medicine and Epidemiology, Harvard Medical School Vice Chief, Division of Pharmacoepidemiology, Dept. of Medicine, Brigham & Women's Hospital Aprotinin and risk of death during cardiac surgery: An FDA case study			
Wednesday June 11	9:00 – 11:00 am FXB G-11	Introduction to Biostatistics			
	11:30 am Biostatistics Dept.	Group and individual photos			
	12:00 – 1:30 pm Biostatistics 2-426	Catered lunch with Dept. of Biostatistics Faculty			
	1:30 – 3:00 pm Biostatistic 2-426	Epidemiology Lecture: Maggie Gates, Margaret A. Gates, Sc.D. Research Fellow, Brigham and Women's Hospital, Channing Laboratory: Background and results for recent ovarian cancer analyses			
	3:30 – 5:00 pm Kresge 210	STATA class: Hypothesis Testing Kathleen Wirth, Graduate Student, Epidemiology			
Thursday June 12	9:00 - 11:00 am FXB G-11	Introduction to Biostatistics			
	12:00-1:30 pm Biostatistics 2-426	Catered lunch Opportunities for undergraduate and graduate studies: Dr. Rebecca Betensky, Catherine Haskell			
		Conferences for Minority StudentsSummer Internship			
		- Graduate Schools - Funding Possibilities			
	1:30 pm – 3:00 pm Biostatistics 2-426	Biostatistics Lecture: Dr. Chris Paciorek Spatio-temporal statistical models for estimating exposure to air pollution			

	4:30 pm – 8:00 pm	Community Servings			
		Community Servings is dedicated to providing free home-delivered meals throughout eastern Massachusetts to people homebound with HIV/AIDS and other acute life-threatening illnesses, who are unable to shop or cook for themselves. We provide our clients, their dependent families, and caregivers appealing, nutritious meals, reaching out to those in greatest need. Our goals are to help our clients maintain their health and dignity, provide nutritionally and culturally appropriate meals, preserve the integrity of their family, and send the message that someone cares.			
		Our clients come from very diverse backgrounds and represent many different ethnicities. 95%, however, are living in poverty. 58% are men, 42% are women. 71% of our meals go to people of color, including African-American, Latino, Haitian, and Cape Verdean clients. Children receive 33% of our meals, and 80% of their caregivers are single parents.			
		http://www.servings.org/; Phone: (617) 522-7777; 18 Marbury Terrace, Jamaica Plain, MA 02130			
		They are expecting you there at 4:30 so you will probably want to leave around 3:45 to allow time to get there. The easiest way to the Orange Line from the Wentworth dorms is to walk to the Ruggles station.			
		Since it will be in an industrial kitchen, there are a few rules about dress: No shorts No sandals No sleeveless shirts			
		MBTA Directions: From the Orange Line Stoney Brook Station: From T stop, proceed left, when you reach the first gateway turn left. Walk 200 yards down path, past Legal Services Building on you right. Our building is the next building on the right with a green bottom and white top. When you reach the skating rink, proceed to the right onto Marbury Terrace and the building is on your right.			
		Dept. of Biostatistics Grad Students Alisa Stephens and Alane Izu			
Friday June 13	9:00 - 11:00 am FXB G-11	Introduction to Biostatistics			
	12:00 – 1:30 pm	Lunch			
	1:30 - 3:00 pm	Environmental Health Lecture: Dr. Jonathan Levy Air Pollution Exposure Assessment & Monitoring equipment demonstration at HSPH			
	3:30 – 5:00 pm Kresge 210	STATA class: General lab Kathleen Wirth, Graduate Student, Epidemiology			
Saturday June 14		FREE DAY			
Sunday June 15	10:00 am – 2:00 pm Kaplan Test Prep and Admissions 39 JFK St Cambridge, MA 02138 (Harvard Square T stop)	GRE Practice Exam – Paper and Pencil Test and Feedback Session Kaplan Educational Center is one of the nation's premier education companies providing students with a full range of resources to achieve their educational goals. During this time, Kaplan will provide you with an opportunity to prepare for GRE testing. Students will take a practice exam administered under simulated testing conditions and find out their scores on their exam. The practice test will be 2 sections, Verbal: 30 minutes, and Math: 45 minutes, total of only 75 minutes (no writing assessment essay and no experimental section), and then there will be a feedback session after lunch. Kevin.Richard@kaplan.com; phone: 617-661-6965			
	6:00 pm	Dinner at Bombay Club, Harvard Square 57 JFK Street, Cambridge, MA 02138 http://www.bombayclub.com/home.html			

		WEEK THREE			
Monday	9:00 – 11:00 am	Introduction to Biostatistics			
June 16	FXB G-11 11:00 am – 1:30 pm FXB G-11	Catered Lunch with the Movie "A Civil Action" "A Civil Action" focuses on a liability lawsuit filed by eight Woburn families against Beatrice Foods and W. R. Grace. These corporations were accused of dumping chemicals (especially trichlo roethylene, a probable human carcinogen) in ways that allowed the compounds to reach the water in Woburn, MA. In the end, both companies agreed to finance an expensive cleanup plan, Grace pleaded guilty to two felony counts of lying to the Government about what happened, and Beatrice's lawyers were judged to have engaged in misconduct. Harvard biostatisticians Dr. Stephen Lagakos and Dr. Marvin Zelen consulted on this case. 112 minutes.			
	1:30 — 3:00 pm Biostatistics 2-426	Lecture: Dr. Sherrie Wallington, Post Doctoral Fellow, HSPH: Building your Academic and Research Career			
	3:30 – 5:00 pm Kresge 210	STATA class: Linear regression & Logistic regression Kathleen Wirth, Graduate Student, Epidemiology			
Tuesday June 17	9:00 – 11:00 am	Introduction to Biostatistics			
June 17	FXB G-11 11:30 – 12:30 Biostatistics 2-426	Insight on Public Health PhD programs vs. MD/MPH programs Roberta Gianfortoni, Assistant Dean for Professional Education and Renee Johnson, PhD, MPH, Research Associate, Harvard Injury Control Research Center			
	12:30 – 1:30 pm Biostatistics 2-426	Lunch			
	1:30 - 3:00 pm Biostatistics 2-426	Biostatistics Lecture: Dr. Marvin Zelen "A Civil Action" - A view from the Biostatisticians			
Wednesday	9:00 – 11:00 am FXB G-11	Introduction to Biostatistics			
June 18	12:00 – 1:30 pm	Catered Pizza lunch with students from Project Success, Office for Diversity and Community Partnership, Harvard Medical School			
	1:30 - 3:00 pm Biostatistics 2-426	Society, Human Development and Health Lecture: Doctoral student Binta Beard Discussion of Social Determinants & Health			
	3:30 – 5:00 pm Kresge 210	STATA class: Linear regression & Logistic regression Kathleen Wirth, Graduate Student, Epidemiology			
Thursday June 19	9:00 - 11:00 am FXB G-11	Introduction to Biostatistics			
Julie 19	11:15 am – 12:15 pm	Visit to Dana Farber genotype lab			
	Meet in FXB lobby at 11:00 am	181 Longwood Avenue, Brigham and Women's Channing Lab			
	12:30-1:30 pm	Lunch			
	1:30 pm - 3:00 pm Biostatistics 2-426	Lecture : Dr. Deborah Prothrow-Stith, Henry Pickering Walcott Professor of the Practice of Public Health and Associate Dean for Diversity, Department of Health Policy and Management TBA			
	3:00 – 4:30 pm	ONLINE Human Subjects Training			
Friday June 20	9:00 - 11:00 am FXB G-11	Introduction to Biostatistics			
Julio 20	12:00 – 1:30 pm Biostatistics 2-426	Catered Lunch with Epidemiology faculty and students			
	1:30 – 3:00 pm Biostatistics 2-426	Biostatistics Lecture: Dr. Armin Schwartzman High dimensional data: genomics, imaging, and more			
	4:30 - 6:00 pm Biostatistics 2-426	Dept. of Biostatistics Pizza party			
	At SUNSET (around 8:30pm)	Suggestion: WBZ Free Friday Flicks Boston, Hatch Shell at the Redline T stop Charles MGH http://www.mass.gov/dcr/hatch_events.htm			

Saturday June 21	FREE DAY				
		Suggestion 1: Black Heritage Trail http://www.nps.gov/boaf/historyculture/places.htm			
	The Black Heritage Trail explores the history of the 19th century free Black community of Bosto consists of 14 sites and begins at the Robert Gould Shaw Memorial on Beacon Street.				
		Ranger guided tours of the Black Heritage Trail are conducted as follows: Monday-Saturday; 10:00 a.m., 12:00 p.m., 2:00 p.m.; for groups of 5 people or more, please call 24 hours in advance for reservations: 617-742-5415.			
		Suggestion 2: Museum of Science with free passes Take the green line outbound to "Science Park" T stop			
Sunday June 22	11:45 am (meet at 11:15 am at Boylson T Stop (Green line)				
	12:00 pm	Lunch at Panang Restaurant 685 Washington St. Chinatown, Boston 617-451-6373			
		Add your own reviewCapsule review: The multicultural cuisine of Malaysia with influences from India, China, Thailand, and Portugal is presented here with panache and authenticity.			

		WEEK FOUR	
Monday June 23	9:00 - 11:00 am FXB G-11	Introduction to Biostatistics	
	12:00 noon – 1:30 pm	Lunch	
	1:30 – 3:00 pm Biostatistics 2-426	Society, Human Development and Health lecture: Dr. Greg Connolly Using Research to Make Smoking History: How we use secondary analysis of existing data sets to produce reports on current tobacco control issues and based on the data, craft a health communications campaign and promote policy change	
	3:30 – 5:00 pm Kresge 210	STATA class: General lab Kathleen Wirth, Graduate Student, Epidemiology	
Tuesday June 24	9:00 –12:00 pm	Time to work on presentations	
	12:00 – 1:30 pm Biostatistics 2-426	Catered lunch with Society, Human Development and Health faculty and students	
	1:30 – 3:00 pm Biostatistics 2-426	Society, Human Development and Health Lecture: Dr. Gary Bennett TBA	
	3:30 – 5:00 pm Kresge 210	STATA class: General lab Kathleen Wirth, Graduate Student, Epidemiology	
Wednesday June 25	9:00 am12:00 pm	Time to work on presentations	
	12:00 – 2:00 pm Kresge 201	Catered lunch and seminar with Undergraduate Summer Internship Program, Division of Biological Sciences in Public Health at HSPH	
	2:00 – 4:30 pm FXB G-11	Project Presentation Rehearsal **Required**	
Thursday, June 26	9:00 am – 12:00 pm FXB G-11	Summer Program in Biostatistics Project Presentations Each Student will have approximately 20 minutes for presentations and 10 minutes for Questions and Answers. Faculty, mentors, and graduate students are expected to attend the presentations.	
	12:00 – 1:30 pm	Lunch	
Friday, June 27	11:00 am – 12:00 noon Biostatistics 2-426	Certificate Presentation Stan Hudson, Associate Dean for Student Services Harvard School of Public Health	
	12:00 - 2:00 pm FXB G-11	Dr. Ed de Vos and Danya Fortess, Boston University Exit Interviews	
Saturday, June 28	6:00pm	Farewell Dinner: Redbones (Redline, T Stop "Davis Square") 55 Chester Street, Somerville, MA 617-628-2200	
Sunday, June 29		STUDENTS TRAVEL HOME	