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About the Program

UC Berkeley’s School of Public Health offers two-year MPH degrees in the following fields: Environmental Health Sciences, Epidemiology and Biostatistics, Health and Social Behavior, Health Policy and Management, Infectious Diseases & Vaccinology, and Maternal and Child Health and one-year programs in Environmental Health Sciences, Epidemiology, Health Policy and Management, Interdisciplinary, and Maternal and Child Health.

There are three requirements of all MPH students, whatever their concentration:

1) Enroll in and pass the required number of units, including breadth courses
   (42 for one-years, 48 for two-years)
2) Complete a field placement
3) Pass a comprehensive examination

The two-year MPH has a flexible structure, emphasizing students’ exploration of the field of public health, epidemiology and biostatistics according to their individual interests. Most students take about 1/3 epi classes, 1/3 biostat classes and 1/3 electives. All MPH students must enroll in the breadth courses (PH200C 1, 2, & 3). Epi/Biostat MPH students are expected to take the first year and second year seminars (Epi/Biostat first year seminar PH292.7 and Epi/Biostat second year seminar PH 292.1). Most students take about 1/3 epi classes, 1/3 biostat classes, and 1/3 electives. Most graduates work in research positions or with a state or local health agency, or go on to further doctoral study.

Mission Statement

The mission of Epidemiology/Biostatistics is to generate new knowledge that can lead to improvements in health, while emphasizing and identifying emerging areas of inquiry, especially those that cross disciplinary boundaries; disseminate and apply existing and new knowledge in the training of health professionals who will engage directly with populations at highest risk of poor health, or will conduct research in epidemiology and biostatistics, or both; and serve the larger communities in which we live and work, by using our special skills and knowledge. In addition, epidemiologic studies are an essential component of the evaluation of the effectiveness of such programs.
Learning Objectives

In general, the MPH graduate will be able to:

a. Demonstrate a broad understanding of the core areas of public health and related disciplines with particular emphasis in a selected field of study;

b. Demonstrate the ability to conceptualize, create analytic models, identify and collect relevant data, test models with data and present findings in a policy or scientific context;

c. Demonstrate skills for effective practice in the selected field of study; and

d. Demonstrate the ability to assess one’s own strengths/weaknesses and to plan for continued self-development.

Learning objectives specific to the Epidemiology/Biostatistic Program are to:

a) Identify historical trends in the most common causes of death from both infections and chronic diseases in the US

b) Use vital health statistics to assess patterns and determinants of overall and cause-specific mortality

c) Identify the concept of exposure as it refers to a potential causal factor that may be associated with states of health and disease

d) Critically analyze literature; identify and formulate reasonable hypotheses to resolve research questions

e) Identify the most important chronic, infectious, and degenerative diseases of humans in terms of the public’s health

f) Identify behavioral, social, and socioeconomic factors, as well as race/ethnicity and gender, that are major determinants of the incidence, prevalence, progression, and distribution of common diseases

g) Understand accuracy and reproducibility of measures and classifications of physical and biological risk factors

h) Interpret studies that deal with simple relationships among genetic factors and variation in disease risk

i) Identify the basic strategies for observational and experimental studies

j) Identify relationships among study design, sampling strategies, and analysis methods for studying infectious diseases, chronic diseases and reproductive outcomes

k) Identify the basic required components of ethical research including informed consent, and protection of the rights of human subjects

l) Define appropriate sampling methods for surveys and research projects

m) Understand collection of original data, management of a dataset (standard practices for data coding, data entry, generating codebooks, data verification, cleaning, and editing), appropriate analysis, results interpretation, and analysis presentation

n) Utilize appropriate computer packages for data entry and data analysis

o) Identify existing sources of data which can be used in epidemiological research, and understand the strengths and limitations the databases
Required and Recommended Courses

Unit Requirements. Two-year MPH students are required to complete a minimum of 48 total units of coursework over four academic semesters and one summer. The minimum unit enrollment per academic semester is 12 units. Students in the two-year MPH program must meet all school-wide breadth requirements, either by passing the appropriate exemption exams or by taking courses that are approved for meeting these requirements.

Grading. Students have the option of taking a course on a Satisfactory/Unsatisfactory (S/U) basis, but no more than one-third of the master’s program or one-third of the total course work for the doctoral program may be fulfilled by courses graded Satisfactory. Students cannot take MPH breadth course requirements on an S/U basis. The option of changing an S/U to a letter grade or vice versa is never approved after the fifth week deadline for changes unless your Graduate Advisor documents in writing that he/she has misadvised you. No more than 10 units may be 290 series units. Important note: a grade of B- or higher is required in breadth courses. Exceptions to this policy are rare and made on a case-by-case basis.

Courses. You can enroll in classes through the online system: http://Tele-BEARS.berkeley.edu. Please check the online schedule at http://schedule.berkeley.edu each semester for new courses and for course availability. Courses in the PH 290, 292, 298, and 299 series may change their section numbers each semester. Course Control Numbers (CCNs) will also change every semester.

Courses for the MPH Degree

PH 200 C 1-2 Public Health Core Breadth Seminar (4 units, Fall)
PH 200C3 Public Health Core Breadth Seminar (2 units, Spring)
PH 297 Public Health Field Placement (3 units, Fall)

Key Epidemiology Courses for the Epi/Biostat Program

Fall

PH 142 Introduction to Probability and Statistics in Biology & Public Health (4 units, Fall), if no previous coursework in statistics. If you have a solid background in stats you may enroll in PH 245 (below)
PH 245 Introduction to Multivariable Statistics (4 units, Fall)
PH 250A Epidemiologic Methods I, can be waived if student possesses a strong background in Epi (3 units, Fall), if so students can take PH 250B (below)
PH 250B Epidemiologic Methods II (4 units, Fall)
PH 292.3 Thesis seminar for Epidemiology-Biostatistics students (serves to guide students through the process of a Master’s thesis using secondary data)
PH 251C Causal Inference and Meta-Analysis (students who do not have experience reviewing the epidemiologic literature and writing about epidemiologic topics; 2 units, Fall)
PH 251C and PH 292.3 are designed to help guide you through the thesis-writing process.
PH 292 Epidemiology/Biostatistics seminar for Epi/Bio students (2 units, 1st semester)
**Spring**

PH 145  Statistical Analysis of Continuous Outcome Data (4 units, Spring)

PH 241  Statistical Analysis of Categorical Data (4 units, Spring)

If, for some reason, you can only take PH 145 OR PH 241, we recommend taking PH 241

PH 292  Epidemiology/Biostatistics Seminar for Epi/Bio students (2 units, 4th semester)

**Recommended Courses**

PH 206C  Nutritional Epidemiology (3 units, Fall)

PH 251D  Applied Epidemiology using R (2 units, Fall)

PH 252D  Introduction to Causal Inference (4 units, Fall)

PH 257  Outbreak Investigation (2 units, Fall)

PH 207A  Public Health Aspects of Maternal and Child Nutrition (2-3 units, Spring)

PH 217C  Aging and Public Health (3 units, Spring)

PH C242C  Longitudinal Analysis (4 units, Spring)

PH 252  Epidemiological Analysis (3 units, Spring)

PH253B  Epidemiology and Control of Infectious Diseases (2 units, Spring)

PH 253G  Sexual Health Promotion and Sexually Transmitted Disease Control (2 units, Spring)

PH 254  Occupational and Environmental Epidemiology (3 units, Spring)

PH 255D  Methods in Social Epidemiology (2 units, Spring)

PH 256  Molecular & Genetic Epidemiology and Human Health in the 21st Century (4 units, Spring)

**Two-Year Schedule**

**FIRST YEAR**

**FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB HLTH 200C1</td>
<td>HPM Breadth</td>
<td>2.0</td>
</tr>
<tr>
<td>PB HLTH 200C2</td>
<td>EHS Breadth</td>
<td>2.0</td>
</tr>
<tr>
<td>PB HLTH 142 or 245</td>
<td>Intro to Prob Stat OR Intro to Multivar Stat</td>
<td>4.0</td>
</tr>
<tr>
<td>PB HLTH 250A or 250B</td>
<td>EPI methods I OR EPI methods II</td>
<td>3.0</td>
</tr>
<tr>
<td>PB HLTH 292</td>
<td>MPH Seminar</td>
<td>2.0</td>
</tr>
<tr>
<td>PB HLTH Electives</td>
<td>as desired</td>
<td>2-3 units</td>
</tr>
</tbody>
</table>

**SPRING SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB HLTH 200C3</td>
<td>HSB Breadth</td>
<td>2.0</td>
</tr>
<tr>
<td>PB HLTH 144A</td>
<td>Intro SAS Program</td>
<td>2.0</td>
</tr>
<tr>
<td>PB HLTH 144B</td>
<td>Intermediate SAS Program</td>
<td>2.0</td>
</tr>
<tr>
<td>PB HLTH 145*</td>
<td>Cont Outcome Data</td>
<td>4.0</td>
</tr>
<tr>
<td>PB HLTH 241*</td>
<td>Anal Categorical Data</td>
<td>4.0</td>
</tr>
<tr>
<td>PB HLTH Electives</td>
<td>as desired</td>
<td>2-3 units</td>
</tr>
</tbody>
</table>

*If you can only choose one we recommend PH 241

**Summer**

Field Placement. Though the field placement is completed over the summer, you will enroll in PH 297 in your second fall semester.
## SECONd YEAR

### FALL SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB HLTH</td>
<td>245</td>
<td>Intro Variable stat, if not taken first year</td>
<td>4.0</td>
</tr>
<tr>
<td>PB HLTH</td>
<td>250B</td>
<td>EPI methods II, if not taken first year</td>
<td>4.0</td>
</tr>
<tr>
<td>PB HLTH</td>
<td>297</td>
<td>PB HLTH Field Study</td>
<td>3.0</td>
</tr>
<tr>
<td>PB HLTH</td>
<td>292.3/251C</td>
<td>Seminars for MPH Students</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depending on the type of thesis you’re working on</td>
<td></td>
</tr>
<tr>
<td>PB HLTH</td>
<td></td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

### SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB HLTH</td>
<td>252</td>
<td>EPIDEM ANALYSIS</td>
<td>3.0</td>
</tr>
<tr>
<td>PB HLTH</td>
<td>292</td>
<td>M.P.H. SEMINAR</td>
<td>2.0</td>
</tr>
<tr>
<td>PB HLTH</td>
<td></td>
<td>Electives as desired</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>to 12 units</td>
<td></td>
</tr>
</tbody>
</table>

Please be aware that full-time student status requires an enrollment in a minimum of 12 units each semester. Also note that most of the courses listed are only offered in either the FALL or SPRING semester.
Comprehensive Examination for the Master’s Degree

During the spring semester preceding graduation, students in the two-year MPH program must present and defend an in-depth paper on an epidemiologic topic that is handed in early in the spring semester. The paper can take the form of a critical review of the existing epidemiologic literature about a particular topic; a formal meta-analysis or a paper describing the results of an original epidemiologic study by the student; a detailed research proposal for an epidemiologic study is also acceptable under certain circumstances. In the fall semester before the paper is due, each student will be assigned to a faculty member with expertise in the subject matter of the student’s proposed paper. The student will work with and receive ongoing input from that faculty member during the various stages of planning and writing the paper. (Details concerning the paper topic, format, due dates for various stages of development of the paper, etc., can be found in the Epidemiology Masters Paper Guidelines.) In the spring semester, each student will give a brief oral presentation concerning his or her paper on a pre-assigned date and will then be examined orally for one hour by two or more faculty.

Specifically, in this oral comprehensive examination, the student will be expected to defend his or her written paper and, in the process, demonstrate competence in and a firm grasp of epidemiologic and biostatistical methods and approaches relevant to studies of disease causation and prevention. Decisions on the outcome of the comprehensive examination will be given to the student the day of the examination as satisfactory or unsatisfactory. In the event of an unsatisfactory outcome, a written and/or oral re-examination is the usual recommended course of action. Students who do not pass the re-examination are not eligible to receive the Master’s degree.

Regardless of the type of paper written, there are three features that should be common to all the papers submitted to fulfill this requirement:

1) The paper must be original work done by the student
2) The paper must treat an epidemiologic topic and demonstrate knowledge of/competence in basic concepts related to epidemiologic research (e.g. study design and analysis, bias, confounding, effect modification, etc.)
3) The paper must make clear the relevance of the topic to health/public health

Students will present their masters papers in one of two sections of the spring seminar (PH 292) to be scheduled.
Fieldwork

All students in the Epidemiology/Biostatistics MPH Program must complete an internship for a minimum of 12 weeks as part of their masters’ program. This fieldwork requirement will be discussed in the fall seminar for first-year Epidemiology/Biostatistics students (PH292). There is also usually a joint social event organized by the second year students, sometime late in fall semester, where the continuing students provide background on their own field experiences for the entering students’ benefit. Students who need help finding field placements and mentors will be assisted by the Center for Public Health Practice, which oversees many fieldwork sites in the Bay Area. Internship sites are chosen from a wide range of public health organizations and research institutions and are selected based on the student’s objectives for professional development and the needs of the organization. Many sites are local, but students may also intern in other parts of the country or the world. This experience provides opportunities to:

- Apply and enhance classroom knowledge and skills
- Experience how one public health organization functions
- Develop a professional identity
- Explore personal growth and career direction

Students are encouraged to plan for the practice experience early in their program. *It is the student’s responsibility to keep track of dates and deadlines set by the Center for Public Health Practice (CPHP).*

The internship is secured through: 1) an internal organization and the CPHP matching system, or 2) an external organization. An *internal* internship is secure by applying through the [SPH jobsite](https://spjobsite.com), securing interviews and ranking your top choices through CPHP. CPHP will then match students to organizations based on the students’ and organizations’ rank orders. After being matched, students only have a few days to commit to the placement via the “Internship Placement Confirmation” form.

An *external* internship is secured via the student’s own initiative: students reach out to organizations of interest that do not always post on CPHP’s SPH Jobsite and secure an internship via the external organization’s hiring mechanisms. These organizations do not participate in the matching system. You also need to negotiate your stipends or pay with external organizations. The majority of internal internships have a history with the Center for Public Health Practice and offer stipends or pay (although variable).

To prepare for the fieldwork, students are strongly encouraged to participate in the special workshop sessions offered by CPHP and to schedule meetings with your field supervisor. CPHP offers Preparation for Public Health (PH 291A- Fall or Spring), a workshop series on careers and trends, professional development and specialty skills. This one-unit course is open to all interested students in the school.
The Field Supervisor for Public Health Epidemiology/Biostatistics is Guenet Sebsibe. Contact Guenet at 510-642-9839 (phone) or guenet_sebsibe@berkeley.edu (email) if you have any questions regarding field placement.

**Specialty Areas**

Specialty Areas are interdisciplinary, drawing faculty and students across many areas of study. Students in a two-year or doctoral program may elect to complete an additional specialty area as a minor in their curricula. Students in a 11-month program may also be able to add a specialty area however we recommend talking to your program coordinator for eligibility requirements.

**Aging**

One of the nation's major public health objectives is to enhance and maintain the health, vitality, and independence of its aging population. To meet this challenge, the UC Berkeley School of Public Health has increased its commitment to the field of aging.

Professor William Satariano, bills@berkeley.edu; 510-642-6641; 207-F University Hall  
Professor Meredith Mikler, mink@berkeley.edu; 510-642-4397; 207-E University Hall

**Global Health**

This specialty area prepares students from different disciplines to work in global health programs. The objective is to produce graduates with a marketable set of skills for entry-level professional jobs abroad or with domestic agencies that do public health research, evaluation, and program development in other countries.

Claire Norris, cnorris@berkeley.edu; 510-642-6915, 227 University Hall

**Maternal & Child Health**

The Maternal & Child Health program is dedicated to promoting and protecting the health status and well-being of women, infants, children, adolescents, and their families.

Kathryn Jerman, kate.jerman@berkeley.edu; (510) 643-499, 207H University Hall

**Multicultural Health**

As the composition of the U.S. population becomes increasingly multicultural, it is critical that schools of public health address these issues through multiple means.

Abby Rincon, arincon@berkeley.edu; 510-643-7900, 141-J University Hall

**Public Health Nutrition**

The Public Health Nutrition program emphasizes the application of food and nutrition knowledge and research to the improvement of the health of populations.

Carol Hui, carolhui@berkeley.edu; 510-666-3734, 207 University Hall
Doctoral Programs

Two doctoral degrees are possible for students interested in advanced training in epidemiology or biostatistics and public health, the DrPH (Doctor of Public Health) and the PhD (Doctor of Philosophy) in the Division of Epidemiology.

The DrPH
The Doctor of Public Health (DrPH) degree is a professional degree conferred in recognition of a candidate's command of a comprehensive body of knowledge in the field of public health and related disciplines, and of the candidate’s proven ability to initiate, organize, and pursue the investigation of significant problems or interventions in public health. The focus of this degree is the development of transdisciplinary knowledge about the determinants of health, and the scientific and professional leadership skills to translate this knowledge into effective health interventions. Those who earn this degree are expected to occupy leadership positions that have major influence on public health research, policies, programs, systems and institutions. Such leadership may be in diverse settings at the international, national, state, or local levels, and in the public, private and academic sectors.

The program is designed to take three years of full-time activity. An MPH is a prerequisite. Courses include administration, policy analysis, research design and methods, community interventions, ethics and leadership. Information is available at [http://sph.berkeley.edu/students/degrees/areas/drph1.php](http://sph.berkeley.edu/students/degrees/areas/drph1.php).

The PhD
The Ph.D. program is administered by the Group in Epidemiology, which is appointed by the Graduate Division and includes faculty members from a number of other disciplines and departments at Berkeley, as well as faculty from the UC San Francisco campus. In addition to the courses required for the master’s degree, Ph.D. students identify a third area of scientific knowledge in which they will develop competence. Normally, a minimum of one additional year of study is required following receipt of the master’s degree before taking the qualifying examination and being advanced to candidacy for the Ph.D. degree. After advancement to candidacy, students must conceive, conduct, and complete an original research project culminating in a dissertation. The normative time in the Ph.D. program is four years.

In order to be admitted to candidacy, the student must submit a prospectus and pass a three-hour oral qualifying examination which is conducted by a four-member faculty committee. The four-member committee must be approved by the Graduate Division. After being admitted to candidacy, a three-member Dissertation Committee (approved by the Graduate Division) monitors the progress of the student. The Dissertation Committee is responsible for guiding and supervising the student’s research and for assuring that the thesis meets the highest standards of excellence.
Concurrent and Dual Degree Programs

Most Epi/Biostat students pursue only the MPH degree. However, students who wish to supplement their training with another discipline may arrange to pursue another master’s degree in another school or department on campus. An MPH and master’s degree are typically 3-4 years to complete. Please note that a separate application and admission to the other department is required. Unless otherwise stated, current MPH students are given no preferential treatment in the selection process. If accepted into another master’s program, students are expected to meet the requirements for both degrees. Getting two degrees is a rigorous commitment and may require advanced and creative planning to avoid scheduling conflicts.

Public Health and Business Administration (MBA/MPH). This dual degree program is offered with the Haas School of Business. Application are made directly to the School of Business during your first fall semester. Applicants are expected to meet the UC Berkeley MBA requirements. In addition to their MBA core and elective courses, students must take all MPH core and elective classes. Students generally complete two summer internships. Program length is usually 3 years and students essentially complete two degrees. Interested applicants may contact Kristi Raube; raube@haas.berkeley.edu.

Public Health and City Planning (MCP/MPH). This concurrent degree program with the Department of City and Regional Planning (DCRP) meets the demand for health planners looking to broaden their skills, expertise and areas if interest. Each program normally takes two years to complete, but through the concurrent degree program, time-to-degrees can be reduced to as little as three years as experience and coursework overlap between the two departments. Traditionally, students interested in this program begin in City Planning and apply to the School of Public Health. Exceptionally well-qualified applicants may apply to both programs simultaneously through the School of Public Health, submitting a DCRO supplement directly to City Planning. Interested applicants may obtain more information from Prof. William Satariano; bills@berkeley.edu.

Public Health and Social Welfare (MSW/MPH). The School of Social Welfare and the School of Public Health offer both a 3-year concurrent degree program, as well as a 3-4 year dual degree program. Each will provide interdisciplinary preparation in the classroom and fieldwork settings. The concurrent degree program is designed to permit students the maximum amount of flexibility while fulfilling the requirements for both degrees. For more information, email socwelf@berkeley.edu or sphinfo@berkeley.edu. Note that the application to the MSW/MPH concurrent degree is made prior to the admission to either school. Current students in the School of Public Health may apply to the MSW/MPH dual degree program.
Academic Advising

Program Advising
The Epidemiology/Biostatistics Advisor, Janene Martinez, is available to guide you through the entire graduate degree, including: choosing courses, preparing a plan of study, connect you to SPH faculty, staff, and/or alumni, and check your progress towards graduation. She can provide information about the program, school or campus resources/activities. You will be required to meet with Janene once per semester. Please also feel free to contact Janene if you ever need advice, help, or if you need to talk. Conversations are confidential unless there is a threat to an individuals’ health or safety.

Faculty Advising
All students will be assigned an academic faculty advisor. Students are encouraged to meet with their advisors regularly to discuss their programs of study, academic progress, and career goals. Each Faculty Advisor will make available sufficient hours to advise students throughout the semester. Students are also free to consult with other faculty throughout their time in the program, and to change their assigned advisor if they feel their professional or educational goals and interests are a better match with another advisor. Contact Janene Martinez if you would like to change advisors.

Student Initiative: It is each student’s responsibility to schedule appointments with his/her advisor. If your advisor’s office hours conflict with your course schedule, please contact him/her to request alternate appointment times. You are encouraged to meet with your advisor early in the first semester to 1) get to know your faculty advisor’s interests and research focus; 2) share with your advisor who you are and what you hope to accomplish during your studies; and 3) learn what you might expect from your relationship with your faculty advisor.

Plan ahead and have an agenda for your meeting. Be prepared to talk about your background in the context of how you’ve developed your current academic goals and interests. Read about your faculty advisor’s work and interests and be specific about your questions or topics of discussion. If you want to talk about the field, use the advisor’s recent articles to guide your conversation.

Health and Wellness
Graduate school can be stressful, so be sure to create a lifestyle that supports your mental and physical health throughout the program. We encourage you to be physically active, eat well and pursue methods of relaxation so that you can enjoy the program and do your best work. If you are experiencing difficulty, stress, or hardship at any time while in the program, please let Janene, a faculty member or your advisor know as soon as possible so we can explore arrangements to assist you. Counseling Services- University Health Services (http://www.uhs.berkeley.edu/students/counseling/) provides group and individual counseling for students; personal, academic, and career-related issues. The Tang Center has great resources on how to cope with grad school and stress http://uhs.berkeley.edu/bewell/.

We also welcome any suggestions for ways to improve the training and services we provide.
Things You Should Know

Policies and Procedures
Policies and procedures that govern graduate work at UC Berkeley are found in the Guide to Graduate Policy on the Graduate Division website at http://www.grad.berkeley.edu/policies/guide.shtml. Note that SPH has its own set of policies and procedures that may be different from the Graduate Division policies. The SPH guide to policies and procedures is located in the SPH School-Wide Student Handbook at http://sph.berkeley.edu/students/handbooks.php. If there is ever any discrepancy, please consult your graduate advisor for clarification. It is your responsibility to read these policies and procedures.

SPH Student Services
The School of Public Health Office of Student Services and Admission is located in Room 417 University Hall. Student Services staff are responsible for many school-wide events and procedures such as pre-application advising, admissions, Spring Visit, Welcome Week and commencement.

School Listserv for Students
Important messages are sent to the general School of Public Health student population via bspace. Instructions for enrolling in the SPH listserv are on the SPH website under Current Students: Resources for New Students: Student Announcements on bspace. These messages include fellowship opportunities, job postings, course advertisements, and deadlines specific to the School of Public Health from our Office of Student Services. Messages from Student Services are especially important, as crucial School of Public Health deadlines may differ from general campus deadlines, ex: adding/dropping classes.

Epidemiology/Biostatistic Listserv
As a student in the epi/biostat program, you will be automatically enrolled in our student listserv. The listserv is intended to encourage sharing of information and resources among students. Important messages will be sent from the Epi group faculty and staff. Messages can include scholarship/fellowship opportunities, job postings, course/curriculum changes/information, and deadlines specific to Epi/Biostat students.

Career Development
The Career Services Office within the Center for Public Health Practice at SPH assists student and alumni to discover and pursue public health employment that suits their goals and passions and enables them to make a difference in public health. Services include individual career counseling to discuss career decision-making and job search strategies, critiquing resumes and cover letters, conducting mock interviews, evaluating/negotiating job offers, or learning about career resources available to SPH students. Students can view job listings specific for SPH students and alumni at the SPH Jobsite. You can register at http://ucalhealth-csm.symplicity.com/students to obtain access to view job listing.

Registration and Enrollment- Telebears and Bearfacts
Registration involves two steps: enrolling in classes and paying fees.

You may enroll using Tele-BEARS at http://telebears.berkeley.edu. Full instructions on Tele-BEARS are on the Registrar’s website (http://registrar.berkeley.edu). You may use Tele-BEARS during your appointment period to add and drop classes, or change grading option and units, through the third week of instruction. Tele-BEARS will no longer be available after the third week of instruction. Changes in your course schedule may be made after the third week of classes by submitting a
Petition to Change Class Schedule Form which you can pick up at 113 Haviland Hall. Please note that you will need your CalNet ID and passphrase in order to access the on-line Tele-BEARS system.

You may also use InfoBears and the Bearfacts online retrieval systems at http://bearlink.berkeley.edu to obtain information regarding your current schedule, your final grades from the previous semester, financial aid application/award status, CARS billing information, and much more.

A $5 fee is charged for an added class and $10 for a dropped class after the third week of instruction. A late registration fee of $150 will be charged to any student not officially arrested by Friday of the third week of instruction.

To be officially registered, you must meet three criteria:

1. You must be enrolled in at least one course.
2. Your registration fees must have been paid, either in full, or, if on the Deferred Payment Plan, at least your first installment.
3. You must have no blocks against your registration.

With Tele-BEARS, you will be able to access your current class schedule and financial aid and award status. You can also access BearFacts; this system that provides information regarding your registration, grades, financial aid, billing, class schedule, and more. You can update your postal address, email address, and telephone information, view and order copies of your transcript; access your e-Bill, and more (https://bearfacts.berkeley.edu/bearfacts).

Fees and Tuition
All registered students are liable for fees. For information regarding fees and tuition, including non-resident tuition, please refer to the UC Berkeley Office of the Registrar’s website at http://registrar.berkeley.edu.

Your registration and fees are billed through the Campus Accounts Receivables System (CARS). Your first CARS billing statement (e-Bill) will be available in early August and must be viewed online through BearFacts.

Fellowships, Stipends, and Financial Aid Disbursements
Fellowship, stipend, and financial aid recipients are strongly encouraged to sign up for Electronic Funds Transfer (EFT) to expedite receipt of their disbursements or CARS refunds via direct deposit to your personal bank account. Students using EFT receive their refunds faster and avoid standing in line. CARS refunds paid to students by a paper check can be picked up in person at Cal Student Central office located at 120 Sproul Hall. Checks that are not picked up timely will be mailed to the local address on file in BearFacts. Make sure your local address is current on BearFacts.

Cal Student Central 120 Sproul Hall
Hours: Monday to Friday, 9:00am-4:00pm
Phone: (510) 664-9181 Website: http://studentcentral.berkeley.edu
Financial Support
Student loan and work-study packets are offered to admitted students by the campus Financial Aid Office only after they have submitted their Statement of Intent to Register to attend Berkeley. There are some limited fellowships and scholarships available through SPH. SPH Fellowship criteria are very specific and there a finite number of offers. Fellows can receive both awards and academic appointments. Your fellowship acceptance form should state any employment restrictions.

Teaching and Research Assistantships
At Berkeley, teaching assistants are given the title of Graduate Student Instructor (GSI) and research assistants are given the title Graduate Student Researcher (GSR).

Finding a GSI/GSR position
Though anyone should consider carefully whether they should work in their first year of graduate study, you may seek a position as a GSI for undergraduate courses, as an MPH student, or as a GSR working for a research center or specific faculty member(s). If you are interested in finding a GSR position, please contact individual faculty with research that aligns with your interests/experience. You are not limited to GSI/GSR positions within SPH, but you would need to contact other departments in which you have expertise for availability, qualifications and departmental deadlines. Hiring is managed by the department in which each position is located.

For questions not addressed by your hiring department, please contact the GSI Teaching and Resource Center at 510-642-4456 or gsi@berkeley.edu

GSI/GSR Resources
- What you need to know about being GSI, GSR, Reader or Tutor: http://grad.berkeley.edu/policies/pdf/apptknow.pdf
- GSI Teaching and Resources Center http://gsi.berkeley.edu
- Grad Division Academic Appointments FAQs http://grad.berkeley.edu/policies-guides/faq-appointments/

Other Appointment Opportunities
Many students choose to work part-time to supplement their income while they are in school. It is generally not recommended for graduate students to work in their first semester due to the stressful nature of adjusting to the rigorous graduate program at SPH. However, if you choose to work, and are eligible, there are a few resources to help you find employment opportunities.

Access our SPH Jobsite via the Center for Public Health Practice and click on students and alumni.
You may also register for CalJobs at the campus Career Center: https://career.berkeley.edu/Callisto/CalJobs.stm, and click on Callisto Students & Alumni on the right sidebar.
Services and Resources

Campus Services

Berkeley International Office (http://internationaloffice.berkeley.edu/) - resources and advice on immigration, financial and personal matters.

Cal student Central (http://studentcentral.berkeley.edu/) a one-stop student services center for financial aid, billing, registration, and enrollment in one convenient location.

Career Center (https://career.berkeley.edu/Info/AboutUs.stm) assisting students and alumni with career exploration, internship and job searching, and the graduate or professional school application process.

Child Care (Early Childhood Education Program) (http://www.housing.berkeley.edu/child/) provides quality early childhood services to 240 children of university faculty, staff and students at six centers in Berkeley and Albany.


Computing (http://technology.berkeley.edu/student/) for general information on computing services.

Everything you need to know resource about Berkeley (http://resource.berkeley.edu/) useful information and links to other campus services and resources.

Financial Aid Office (FAO) (http://students.berkeley.edu/finaid/) information for graduate students re: student loans and federal student aid.

Guide to Financial Support for Graduate Students (http://www.grad.berkeley.edu/admissions/pdf/guide_support.pdf) information on awards and financial resources for graduate students.

Housing (Cal Rentals) (https://calrentals.housing.berkeley.edu/index.htm) Berkeley’s on rental listings unit and resource for finding local housing.

Libraries (http://lib.berkeley.edu) home page for the University Library System

Library Research Services for Graduate Students (http://lib.berkeley.edu/services/for_users/grad_students.html)

Office of the Registrar (http://registrar.berkeley.edu) for up-to-date information on registration fees, adding/dropping classes, Tele-BEARS, BearFacts, residency, grades and more.

Parking & Transportation (http://pt.berkeley.edu) information about parking permits, campus shuttles and emergency preparedness.

Police (http://police.berkeley.edu) information about campus safety programs, night escort services and emergency preparedness.

Student Calendar (http://registrar.berkeley.edu/GeneralInfo/stucal.html) important dates for filing and registration.

University Health Services (UHS) (http://uhs.berkeley.edu/) information about student medical care, counseling, psychological services, insurance, workshops and more.
Support Groups

Counseling Services- University Health Services (http://www.uhs.berkeley.edu/students/counseling/) provides group and individual counseling for students; personal, academic, and career-related issues.

Disabled Students’ Program (DSP) (http://dsp.berkeley.edu) offers services and resources for students with disabilities.

Gender Equity Resource Center (http://students.berkeley.edu/osl/geneq.asp) a Cal Community Center dedicated to fostering a safe, equitable and inclusive campus experience for all. Provides programs, services and information about gender, sexual orientation, sex, gender identity, sexual and relationship violence and bias-related incidents.

LGBT Services (http://students.berkeley.edu/osl/geneq.asp?id=1169) provides support services and resource referrals and works collaboratively with other departments to develop workshops, programs, conferences on issues of importance to the lesbian, gay, bisexual and transgender community.

Ombudsperson (510-642-5754) for neutral, confidential assistance in situations where you feel you have been treated unfairly or need help with a procedural academic problem.

The Parents Network (http://parents.berkeley.edu) newsletters, recommendations, and advice for student parents.

Getting Involved

Cal Corps Public Service Center (http://students.berkeley.edu.osl/calcorps.asp) charged with coordinating student volunteer and community service programs.

Graduate Assembly (GA) (http://ga.berkeley.edu) graduate student arm of student government on campus.

Graduate Social Club (http://gsc.berkeley.edu/) events for grad students to meet and mingle.

Arts and Recreation

Berkeley Art Museum and Pacific Film Archive (http://www.bampfa.berkeley.edu) information on art exhibits, film screenings and museum collections.

Cal Performances (http://www.calperfs.berkeley.edu) information on dance, theater, music and other events at Zellerbach Auditorium.

Calbears (http://calbears.cstv.com) official site if the California Golden Bears; includes team schedules and ticket information.

Recreational Sports Facility (RSF) (http://calbears.berkeley.edu) information on the campus gym, membership, fitness classes, sports facilities, personal training and more.
First Year Epi/Biostat Students

Sara Aghaee is a Bay Area native. She received her bachelor's degree in Molecular Toxicology and a minor in Native American Studies from UC Berkeley in 2012. As an undergraduate she conducted research in a toxicology lab, studying the effects of chemical exposures on breast cancer cell growth. During her senior year, she had the opportunity to develop her own research question for a computational toxicology class and decided to study the potential relationship between depleted uranium exposure and occurrence of Spina Bifida Cystica in Iraqi children. This latter project gave her the opportunity to work with physicians and researchers in the international community, instilling a love of global health research in her. After graduation she volunteered as a research assistant for a substance abuse research group at UCSF, giving her the opportunity to work with disadvantaged communities as well as introducing her to public health research. During her time at UC Berkeley she hopes to learn and develop skills in research methodologies that will enable her to contribute to global health research projects, tackling environmental health issues as well as substance abuse-related problems. When she is not studying, she likes to spend time with family and friends, learn about different languages and world history, and be vocal about social justice issues.

Isra Ahmad graduated from San Jose State University (SJSU) with a degree in Health Science in Fall 2013. During her undergraduate career, Isra was heavily involved in tobacco prevention at SJSU through policy advocacy, data collection, health education events and as a consultant and member of the Youth Advisory Board for California Youth Advocacy Network (CYAN). She was also a program coordinator for a local Second Harvest Food Bank site in an underserved community. Isra spent two years total as a teaching assistant for the undergraduate classes Community Health Promotion and Health in a Multicultural Society at SJSU. Her interest and knowledge in Epidemiology and Biostatistics was deepened and expanded through her internship with the Health Careers Opportunity Program (HCOP) here at UC Berkeley in the summer of 2013. Currently, she is continuing my tobacco prevention and education work as a Legacy Fellow with The American Legacy Foundation based in Washington, D.C. Isra is also a summer intern at Kaiser Permanente’s Regional Community Benefits Department. Her long-term career goal is to teach at the university level with a focus in social epidemiology around alcohol, tobacco and other drugs, as well as women’s health. In her free time, she likes to hike, paint and spend time with her family and friends.

Kurt Anthony As a biology major at the University of Chicago, Kurt became interested in gene-environment interactions and their influence on chronic disease. During this time, Kurt also saw how health was tied to social determinants as a volunteer at a clinic on the South Side of Chicago. After graduation, Kurt participated in a year-long fellowship program in Germany where he interned at a diabetes research institute. Kurt looks forward to developing quantitative skills in the epi/biostat program that he will use to improve medical care and develop better health policy.
Justin Batcheller is returning to the east bay after a four year stint in Providence, Rhode island. While there, he gained a Sc.B. in Health and Human Biology as well as an appreciation for Italian food, sleet, well-shucked oysters, and spatial statistics. He plans to continue investigating three of those four topics during his time at UC Berkeley. Justin hopes to use the techniques he learns here to focus and improve health interventions, provide novel interpretations of old data, and depict complex datasets in intuitive and informative ways. He also enjoys long walks along the beach, forays onto foreign soil, teaching troublesome children, and sleeping under the stars.

Erika Brown originally hails from California. She received her BA in Community Health and American Studies from Tufts University, where she nurtured her interested in non-communicable disease prevention through research and outreach projects across San Diego, Boston, Belize, and the Dominican Republic. She spent the past two years working at Brigham and Women’s Hospital studying ways to optimize access to rheumatologic care as well as disease outcomes. Erika hopes to continue researching health disparities with a focus on the identification of chronic disease determinants from within built and social environments. When unimmersed in matters pertaining to morbidity and mortality, she enjoys running, painting, and being outdoors.

Daniel Cao is a Bay Area native who graduated from Cal in fall 2013 with a degree in public health. While studying at Cal, he was a member of the gospel chorus and spent one year as the choir’s undergraduate student instructor. In his senior year, he was a student videographer for the Cal Bears football team and then became the running backs student equipment manager for the 2013 season. His passion for sports and public health has led him to an interest in improving player safety, especially football players who deal with concussions and other head injuries. In his free time he enjoys working out, playing football and working on home improvement projects.

Paul Cho was born in San Jose, grew up in the San Fernando Valley in SoCal, and has been back in the Bay Area since moving up for his undergrad at UC Berkeley, where he earned his B.A. in Public Health in 2011. After graduating and spending 6 months in Taiwan, he worked for a year and half at Monogram Biosciences, a clinical lab that does specialty drug resistance testing for HIV and HCV infected patients. During this time, he also volunteered part-time as a research intern for a professor at UCSF doing data analysis on smoking prevalence and lung cancer incidence and mortality. Paul's general research interests are infectious diseases, especially in developing countries. As he pursues his MPH at Berkeley, he hopes to narrow his research interests and build solid quantitative skills so that he can use them in research or surveillance settings.
Nicoletta (Niki) Commins graduated from UC Berkeley in 2013 with a B.A. in Public Health and a minor in music. She currently works as a technician in a neuroscience lab that specializes in vector-mediated gene therapy for inherited retinal degenerations. Since starting in the lab, she has assisted on a project that utilizes a directed evolution approach to expand the carrying capacity of a commonly used gene therapy vector. Most of her work experience has involved cell culture and molecular cloning. This summer, she also started working part time as a research assistant in the neurosurgery department at Children's Hospital Oakland. Her interests in public health are in genetic and infectious disease epidemiology. In her spare time she likes being outdoors and playing the violin.

Alex Dean was born and raised in Ann Arbor, Michigan, and graduated from Wesleyan University with a double major in Biology and The Science In Society Program. He has previously worked at the Steven Kunkel Immunology Lab at the University of Michigan, focusing on the mechanisms of cytokines networks in inflammatory reactions and host defense. Over the last three years, he worked at the now profitable mobile startup company Heyzap Inc. based in San Francisco. He hopes to bring his knowledge of machine learning/predictive analytics from Heyzap to his studies at Berkeley. Additionally, he is particularly interested in mental illnesses such as Alzheimer's and dementia. In his free time, he enjoys camping, futsal, and the company of his fellow bay area residents.

Carrie Fahey grew up in mid-Michigan and spent the past quarter of her life in Washington, D.C. She obtained a B.S. in International Health with minors in Environmental Studies and African Studies from Georgetown University in 2012. Managing a community-based immigrant literacy program through the university’s Center for Social Justice was one of her best undergraduate experiences. Carrie became interested in research after an internship with the Tanzania National Institute for Medical Research, where she studied the intersection of food insecurity and malaria in a rural farming community in Tanzania. Since graduation, she has worked at a primary care think tank using Geographic Information Systems (GIS) to improve access to healthcare in the United States. Carrie is excited about the strong focus on social epidemiology at Berkeley (in addition to the spectacular hiking and biking opportunities nearby). She plans to study the factors, policies and practices that create and sustain healthy communities.
Victoria Gawlik is a Washington native who received her BA from Scripps College in 2013. Her passion for public health runs deep and she believes that to effectively work for change and to empower communities a person must be sensitive to varied perspectives. Her career goal is to work for the World Health Organization, specifically in the field of antimicrobial resistance. After a class on the microbial world, Victoria realized that a growing problem is the general misunderstanding of microbes. By attending the public health program in epidemiology and biostatistics at Cal she would be trained in the best ways to identify this problem around the globe. Obtaining the tools necessary to seek out and correct the misinformation by tracking and quantifying disease around the world is of utmost importance in order to be effective at establishing change here and abroad.

Jaclyn Guerrero was born and raised in Carpinteria, CA. She graduated from UC Berkeley in 2013 with a B.A. in Public Health. As an undergraduate, Jaclyn worked in public health outreach at UC Berkeley’s Center for Environmental Research and Children’s Health (CERCH) and helped facilitate an environmental health youth program for high school students. Through her experiences at CERCH, she gained perspective of the practice of public health and saw the benefit and necessity of including community members in research studies. Upon graduation, Jaclyn has worked for a pharmaceutical development consulting firm on regulatory submissions for clinical studies or marketing approval. As a MPH student in epidemiology and biostatistics, Jaclyn would like to gain further exposure to community based participatory research and pursue her interests in environmental epidemiology and environmental factors of disease transmission.

Sridharshi Hewawitharana was born and raised in North Hollywood, CA. She recently graduated from UCLA with a B.S. in Microbiology, Immunology, and Molecular Genetics and a minor in Asian Languages. During her undergraduate career, Sridharshi worked as a management assistant at the UCLA Store and as a student research assistant in a clinical immunology lab. During her time at Berkeley, she hopes to learn more about nutritional and genetic epidemiology. In her free time, she enjoys watching anime, crocheting, and dancing.

Maneet Kaur recently obtained her bachelor’s degree in Public Health from UC Berkeley. After volunteering in Honduras and South Africa during her undergrad, Maneet discovered her passion for health equity. As a 2013 UC Berkeley Minority Health International Training (MHIRT) Fellow with Dr. Jack Colford’s WASH-Benefits Project, Maneet worked on environmental enteropathy research in Bangladesh. Since then, Maneet has worked at Berkeley Air Monitoring Group, an independent monitoring and evaluation firm with a focus on improved cookstove projects in developing countries. Maneet's interests include environmental exposures, child development, and environmental and genetic epidemiology. She hopes to use the skills she gains from the Epidemiology/Biostatistics program for research to improve health equity.
Amanda Mok is a California native who found herself transplanted to Cambridge, MA while attending the Massachusetts Institute of Technology. In 2011, she received double S.B. degrees in Biological Engineering and in Music. While an undergraduate, her scientific research and volunteer pursuits took her to France and to Brazil, sparking her passion for international travel. Upon graduation, Amanda joined the Xavier lab at the Broad Institute where she conducted functional genetic screens to implicate IBD and type I diabetes GWAS genes within immunological pathways. After hours, she moonlights as violinist and pianist, and performs regularly with local symphonies and chamber ensembles. While pursuing her MPH at UC Berkeley, Amanda hopes to employ statistical methods to further understand the genetic basis of disease and to further evidence-based medicine.

Kelley Patten is a Northern California native, who graduated from UC Davis in 2010. She stayed in the Bay Area for two more years, working as a research associate at UCSF, before moving to the Midwest to pursue a masters degree at Washington University. For the past two years, she's been studying the parasite *Toxoplasma gondii*, and how it interacts with host immune systems. Her interest in public health took off when she started volunteering with Needle Exchange organizations, both in San Francisco, and in St. Louis. Kelley is excited about the MPH, because she believes it represents an intersection of many different fields. At Berkeley, she hopes to merge her molecular biology background with public health tools, to find new approaches to studying infectious disease. In her free time, you can find her rock climbing, playing ultimate frisbee, and trying to learn how to bake.

Veronica Pear grew up in Ann Arbor, Michigan and graduated from Eastern Michigan University with a BA in Philosophy in 2007. The following year, she moved to California to pursue a doctorate in philosophy at UC, San Diego, where her work focused on applied ethics and feminism, particularly on issues of consent in commercial sexual transactions. After several years, Veronica decided to leave her philosophy program with a MA in order to pursue public health, hoping that epidemiology would allow her to address the many issues faced by marginalized populations in a more direct way. Given her past research, it is no surprise that she is particularly interested in social epidemiology, violence against women, and women’s health. In addition to her scholarly pursuits, Veronica enjoys reading literature, practicing yoga, and solving crossword puzzles with her husband.
Ryan Saelee grew up in Sacramento, CA (South Sacramento) and received his B.A. in Public Health with a minor in Asian American and Asian Diaspora Studies from UC Berkeley in 2012. At Cal, Ryan was extremely driven by his experiences growing up in an underserved community which led him to participate in various student groups that empowered youth from disadvantaged communities to go to college. After graduating, he was stationed back in his hometown at the California Tribal Epidemiology Center as a fellow for the CDC Public Health Associate Program. At the Tribal Epi Center, Ryan was able to assist with various data collection and analysis activities such as distributing and analyzing a tribally adapted version of the CDC’s Behavioral Risk Factor Surveillance System Survey. In pursuing his MPH, he hopes to be able to explore his research interests of racial/ethnic health disparities and the effects of neighborhood environments on health outcomes. His ultimate goal is to use his training to improve the health status of underserved and vulnerable populations.

Naomi Shankute was raised in Sacramento, CA. She attended UCLA where she majored in Psychobiology and minored in Public Health. During her time at UCLA, Naomi was heavily involved in student organized volunteer projects including the Black Hypertension Project, which provided free blood pressure screenings and organized community health fairs. She also volunteered organizing on-campus events to raise awareness concerning AIDS with the AIDS Awareness Committee. She currently works as a Behavioral Therapist where she provides in-home and school behavioral therapy programs for children diagnosed with Autism. On her free time she likes to watch movies, follow her favorite soccer player David Luiz, and teach bible lessons to children at church.

Louisa Smith grew up in Maine and graduated from Brown University in 2011 with concentrations in community health and comparative literature. During college she spent much of her time working with the homeless and formerly homeless population in Providence. Since graduating she has taught third grade at Little Wound School, in a small community on the Pine Ridge Indian Reservation in South Dakota. Her longtime interest in public health has been influenced by the poor health and poor access to health care she has witnessed in these communities. She has special interests in female and reproductive health, genetic epidemiology, and American Indian health. During her free time she enjoys running, hiking, biking, reading, and translating French and Portuguese.

Caitlin Turner was born and raised Sacramento, California. She attended UC Davis and earned a B.S. in Psychology with an emphasis in mathematics. In the two years after completing her undergraduate degree, she has spent most of her time volunteering, holding a variety of jobs and internships, and learning Spanish at community college. As an intern for the Sacramento LGBT Community Center, Caitlin helped plan the annual World AIDS Day event comprised of advocates and speakers, free HIV testing, and a
community resource fair. Every second saturday of the month, she and her colleagues hosted free HIV testing events and conducted health outreach. Her experience at the LGBT Center made her aware that public health problems tend to disproportionately affect minority groups. Studying epidemiology/biostatistics will give her the opportunity to integrate her aptitude for quantitative analysis with her passion for community service in order to address health disparities in underserved communities.

**Marina Wang** received her B.S. in Biology from UC San Diego. After two years of working with several health departments in the Bay Area, she developed an appreciation for the network established in county- and state-level health systems to prevent and manage infectious disease. Previously, she has interned with Santa Clara County's "Hep B Free" Campaign assisting with community wellness efforts to increase the availability of preventative Hepatitis B screening services for target ethnic populations. She has also served in the Communicable Disease Control and Prevention section at the San Francisco Department of Public Health through which she had the opportunity to learn about the disease surveillance process, conducting case investigations for enteric and vector-borne diseases. Currently, Marina works at the San Mateo County Public Health Laboratory processing specimens for the detection of enteric and blood parasites, tuberculosis, and environmental coliforms. She looks forward to developing analytical skills, applying epidemiological methods to infectious disease research, and collaborating with like-minded individuals as a graduate student at UC Berkeley.

**Sean Wu**, a native of San Diego, attended the University of California, Irvine from 2008 to 2013, graduating with a degree in International Studies and a minor in Statistics. During his time at UC Irvine, he spent a year at National Taiwan University, where he studied anthropology. While at Irvine, he spent a year in a student research position, investigating the health and social effects from the troubled Rocky Flats Nuclear Weapons Facility near Denver, Colorado. At Irvine, he also volunteered at Hoag Hospital, a general hospital facility in Newport Beach, in Oncology and Telemetry departments, and also worked for two years at a private pediatric office also in Newport Beach. His hope is to investigate diseases and issues arising from anthropogenic pollutants, especially in the Asia-Pacific area. In his spare time he enjoys cooking, archery, travel, and spending time with friends.
Continuing Epi/Biostat Student Bios

**Kristen Antonelli** has spent the last year living in San Francisco after moving from the east coast where she graduated with a degree in Biology from UNC Chapel Hill. She loves to travel and has volunteered in orphanages and HIV clinics in Moshi, Tanzania and worked for World Camp teaching about HIV, local environmental issues and gender equality to kids in the rural villages of Malawi. After earning her MPH she hopes to find a job combining her love of travel and her interest in prevalent diseases affecting developing countries.

**Kelly Adamski** was born and raised in Thousand Oaks, CA. She earned her B.S. in Biology from Duke University with minors in Environmental Sciences and Chemistry. While she was actively involved in the university’s orientation group and women’s club soccer team, her passion throughout college and beyond has lied in research. After graduating, she worked for two years at the National Institute of Environmental Health Sciences in the Environmental Genomics group. Her research explored the effect of maternal smoking on the epigenetic landscape of the child. It was through this wet-lab experience that she became interested in the epidemiological side of genetic studies and the translation of research outcomes into the public health sector. During her graduate studies, she hopes to explore the intersection of research, public policy, and social change. In her spare time, Kelly enjoys running, biking, playing soccer, and staying active.

**Amy Alabaster** graduated from the University of Arizona in 2010 with her B.S. and M.S. in biochemistry. What started as an entry level research position in the biochemistry department’s mosquito lab soon became a growing interest in infectious diseases and global health. In the lab, Amy studied metabolic pathways in the dengue and yellow fever mosquito, and later moved to Washington, D.C. for a research fellowship at the National Institute of Allergy and Infectious Diseases. There she studied host-parasite interactions between mosquitoes and the malaria parasite. Recently Amy switched gears to work for an organization that advocates for and raises awareness about vaccine-preventable and neglected tropical diseases. Amy is excited to move back to the West Coast and to further explore the field of public health and all that UC Berkeley and the surrounding area has to offer.

**Chris Andersen** is a California native who did his undergraduate studies in Social Welfare at UC Berkeley. He graduated in 2011 and has since worked as a Research Associate in the Epidemiology Division at the UCB School of Public Health. He is interested in integrating his past work on social policy with epidemiological methods by researching the impact of cash transfer programs on diverse health outcomes. In his free time, he likes to work out, be outdoors, practice his French, and explore the Bay Area.
Kimberly Berger is a recent Los Angeles transplant who studied Neuroscience, Psychology, and French at the University of Southern California. During her time there, she conducted research on self-perception and self-reflective thought using functional Magnetic Resonance Imaging. Although neuroscience shaped much of Kimberly’s academic learning experiences, her passion and interest was geared more toward environmental issues. After her graduate education, she hopes to study the long-term health effects that result from cumulative exposure to toxins found in residential, commercial, or outdoor urban environments. Non-academic pursuits center on reading, hiking, attending concerts, and being outdoors.

Adam D’Amico grew up in a suburb of Providence, Rhode Island and didn't go far when he decided to attend Brown University. There he concentrated in Human Biology and became interested in public health. After graduating he moved to Bangkok where he worked as teacher at an alternative school. His interests are still fairly broad. At Berkeley Adam plans to explore as much as he can so that he may narrow his focus and develop the quantitative skills he needs to be useful. Some areas he plans to explore are International Health, HIV and sexual health. During his free time Adam enjoys yoga, science fiction and attempting to cook the Thai dishes that he desperately longs for.

Annie Davis is a California native. She recently graduated from UC Berkeley in May, getting a bachelor of science in Molecular Environmental Biology through the College of Natural Resources. During her time at Cal, she worked in a molecular and cell biology lab, studying the gram-negative soil bacteria Myxococcus xanthus. She co-authored a paper entitled FrzS Regulates Social Motility in Myxococcus xanthus by Controlling Exopolysaccharide Production and is working on two more. Also while in school, she interned with Amgen and a local pharmaceutical company, Plexxikon. She loves public health because it integrates biology and environmental science with education, outreach and community involvement--it uses science to make real changes in the community. She is especially interested in genetic epidemiology and gene-environment interactions.

Edward Elhauge has spent the last 13 years working in the biotech/biology research industry in the Bay Area. Previously, he earned a B.Sc. in Physics and Mathematics from Carnegie Mellon University and spent time in Silicon Valley as a Software Engineer. His bio experience began with Genentech (drug discovery), then Roche Molecular (blood screening, genomics), and most recently, Lawrence Livermore National Lab (pathogen forensics and statistical analysis). Ed is especially interested in the use of statistical inference/machine learning to deduce and validate the etiology of disease. He would like to explore the role of sub-clinical infection in the development of disease, using inferential frameworks that can accommodate interrelated infectious, genomic, and environmental factors. Ed was born in Buenos Aires, Argentina, is bilingual in English/Spanish, and lives in San Francisco with his two children (7 and 3) and two other adults amidst complications, toys and joy. Ed would like to advance evidence-base medicine and public policy.
**Lois Fisher** worked in medical device industry for more than two decades, serving in a variety of roles ranging from venture investing to product management to clinical research. Her work was done in the context of many different diseases and treatments, though cardiovascular diseases were an area of greater focus over the years. In recent years Lois shifted to the clinical research function, where she was the clinical lead for a pre-market approval trial of an aortic stent graft and later manager of the effort supporting peer-reviewed publications globally based on the sponsor’s data. She would like to get more deeply involved in research, this time in the public sector, though she would like to also consult to the medical device industry. She has a keen interest in developing countries, in particular, Africa. Her primary goal at Berkeley will be acquiring skills in methodological techniques, so that she might make a greater contribution to the research process.

**Ruvani Fonseka** was born and raised in Grosse Pointe, Michigan, a suburb of Detroit. After graduating from Harvard College with a BA in the History of Science and a minor in Public Health Policy, she served as a Health Education Peace Corps Volunteer in Mali, West Africa, where she spent time working with her host village on issues as disparate as nutrition, women’s education, and water sanitation. After Mali, she was an AmeriCorps member in San Francisco, working with Jumpstart as a Family Literacy Workshop Coordinator in the Bayview, Mission, and Visitacion Valley neighborhoods, which have some of the lowest third grade literacy levels in the city. She is currently a Master of Social Welfare student at Berkeley, and is excited to combine her study of social issues with an epidemiological focus – it should come as no surprise that her proposed focus within the MPH program is Social Epidemiology. Over the past year, Ruvani worked on a Health Impact Assessment of AC Transit’s bus system with the Alameda County Public Health Department, and she spent her summer as a UC Berkeley Minority Health International Research Training (MHIRT) Fellow with Dr. Suneeta Krishnan at St. John’s Research Institute in Bangalore, India, focusing on programs within the health care sector to prevent gender-based violence. In her spare time, Ruvani enjoys volunteering as a Health Educator at the San Francisco Women’s Community Clinic, singing with International Orange Chorale of San Francisco, and swing and salsa dancing whenever and wherever she can.

**Calliope Holingue** is a first year MPH student in the 2-year epidemiology/biostatistics program. She received her B.A. from UC Berkeley in Public Health and Molecular and Cell Biology in 2013 and is an HCOP (Health Career Opportunities Program) Scholar. In college she was involved with The Suitcase Clinic, a student run organization that provides health and social services to underserved populations in the Berkeley area, and Amnesty International. Both these experiences sparked her interest in social justice, activism, and community-based work. She currently works on the evaluation team for UC
Berkeley’s new “On-campus/Online Professional M.P.H. Degree Program.” Calliope hopes to combine epi and biostats with community-based participatory research in order to build capacity for sustainable health interventions in communities. In her spare time she enjoys music, running, good food and spending time with family and friends.

Kathryn (Katie) McCauley graduated from UC Berkeley with a B.A. in Public Health in 2012. During her third year as an undergraduate, she took an introductory course in epidemiology and fell in love with the subject. A few months later, she started a position as a student assistant in Dr. Pat Buffler’s research group where she spent two years assisting with two multi-center case-control studies of childhood leukemia. Katie continues to work full time on international research projects, as well as data merging and specimen handling for the group. In addition to working directly with data, Katie works remotely and face-to-face with many different collaborators, from professors at UC Berkeley to principal investigators from around the world. In pursuit of her MPH, Katie’s interests include cancer epidemiology, especially in children, as well as the use of spatial techniques to analyze oncology data.

Gianna Peralta received her BA in anthropology, with a concentration in medical anthropology, from the University of California, Berkeley. She currently works for NapaLearns, a nonprofit organization in her home town. Her interests in public health include aging populations and HIV as a chronic, manageable disease. As an undergraduate she worked as part of a team in the UC Berkeley CITRIS Social Apps Lab to design and test an iPad app that motivates senior citizens to walk on a regular basis while learning about technology and using navigational skills. Gianna is the first in her family to graduate from college and has a pet goldfish that is over 17 years old. She loves birds, spending time with her grandparents and baking.

Claire Quiner has worked as a molecular virologist for the past 5 years. Currently studying the interaction of the Dengue virus with its mosquito vector, Ae. Aegyti, and how it interacts with and transmits disease to human populations, her research has spanned many aspects of molecular virology and medical entomology. She is particularly interested in the study and prevention of outbreaks of infectious disease due to population shifts and global trends towards urbanization. Claire was born and raised in Des Moines, Iowa. During high school she began traveling to the mountains of Chiapas, Mexico, and has lived and taught for extended stints in San Cristóbal de las Casas and surrounding Indigenous villages. It was here that she sharpened her views on justice, participatory democracy, health, happiness, community and suffering. While working toward her B.S in Biology from Alverno College in Milwaukee, Wisc., she remained working with underserved populations, and continues to do so. Claire views the study of epidemiology/Biostats as a means to integrate her passions for social justice, scientific rigor and community health.
Chris Rowe grew up in the San Francisco Bay Area and attended UCLA, receiving a Bachelor of Science in Microbiology, Immunology, Molecular Genetics in 2007. Upon graduating, he spent six months working as a personal assistant to the Principal of a secondary school in London, England. Returning to California in 2008, he worked for two years as a business technology consultant with the global consulting firm, Accenture. In a drastic change of path, he left Accenture in 2010 for a one-year AmeriCorps position with a small social service organization in Chicago, Illinois. Upon completion of this one year of service, he took a position as a Community Service Coordinator with the Greater Chicago Food Depository, the food bank that serves Cook County in Illinois. He works with a wide network of community based organizations to support their efforts to feed hungry people in their communities. After two years with the Greater Chicago Food Depository, Chris is extremely excited to start at UC Berkeley in Fall 2013 to pursue an MPH in Epidemiology/Biostatistics. He is particularly interested in social epidemiological topics. In his spare time, Chris plays his guitar, tends his garden and rides his bicycle.

Lauren Stein was born and raised outside of New York City, and graduated from Vassar College in 2010 with a B.A. in mathematics and concentrations in premedical studies and modern dance. She spent the past three years in Boston, first researching pediatric leukemia at Children's Hospital Boston and then working in an early intervention program for children with Autism Spectrum Disorders at a public school. At UC Berkeley, she hopes to pursue her interests in pediatric chronic conditions and social epidemiology, particularly as it relates to the public health concerns surrounding ASD. In her free time, she loves to dance, be outdoors, and laugh.

Laura Telep has a math degree from Wellesley. She worked in software development for 10 years before getting a teaching credential. She has worked as a math teacher with middle and high school students since 1999. In 2010 she spend a semester in central India on a teaching exchange and became very interested in issues of public health and global health outreach. She is excited about applying her love of math to the field of public health by working on a degree in epi/biostat.

Michelle Vo is originally from San Jose, she attended the University of California San Diego, where she earned her BS in General Biology. Taking the opportunity to explore her other interests, she supplemented her coursework with classes in healthcare and math/statistics, which nurtured her intellectual curiosity in public health. She was amazed and excited for the power computing could have in studying disease and improving the efficacy of our treatment of it. During her undergraduate years, she also spent time studying bacterial growth patterns in an academic lab, working in industry at a lab focusing on vaccine development, as well as visiting residents at a local convalescent home, many of whom suffered from diabetes, dementia, and other mental illnesses. Thus,
while intending to focus her electivework in biostatistics, she is particularly interested in chronic disease and hopes that the analytical skills she learns at Berkeley will help her be part of the collective effort to understand and improve care for these patients and many alike.

Julia Wei was born in Rochester, Minnesota, but grew up in San Diego, CA. When she was young she also lived in Michigan and Singapore. She studied at UC Berkeley for undergrad, graduating in 2010, and is excited to come back for graduate school. For the past three years, Julia has been working as a clinical services coordinator at a medical diagnostics lab in Carlsbad. In her free time, she likes to read. She used to only like to read fiction books (with Harry Potter being a favorite of course), but recently has started to read a lot of nonfiction (enjoying historical nonfiction most). She also enjoys cooking, baking, traveling, eating, and watching TV. She does not enjoy exercising, but make it a point to do it anyways. Her interests in epidemiology include chronic illnesses, aging, and social determinants of health.
Epidemiology/Biostatistics Faculty

Barbara Abrams: Dr.P.H., R.D.
Professor of Epidemiology, Maternal and Child Health, and Public Health Nutrition

Research Interests
- Weight and weight gain in women during pregnancy, postpartum and menopause
- Maternal weight, nutrition, social factors and perinatal outcomes
- Could expressed and heat-treated breast milk prevent perinatal HIV transmission

Courses
- PH150A: Introduction to Epidemiology
- PH 207A: Maternal and Child Nutrition
- PH 206C: Nutritional Epidemiology
- PH 292: Seminar for first year Epi/Biostat students

Barbara Abrams currently leads a study of inter-relationships between early life adversity, pregnancy weight, racial disparities and obesity in women and their children. Dr. Abrams is also involved in studies that investigate the contribution of maternal obesity, gestational weight gain and Black-White disparities in stillbirth, infant mortality and other adverse birth outcomes and randomized trials to prevent postpartum weight retention in low-income WIC women and to prevent excessive gestational weight gain in obese women. Dr. Abrams is also leading a study of 47 different countries around the world investigating national policies related to maternal weight before, during and after pregnancy. She previously led studies that tested a novel method designed to prevent maternal to child transmission of HIV through breast feeding in sub-Saharan Africa.

Jennifer Ahern, Ph.D., M.P.H.
Assistant Professor of Epidemiology

Research Interests
- Social epidemiology
- Neighborhood characteristics and health
- Methodological issues and novel methodological applications in social epidemiology
- Traumatic events
- Substance use
- Mental health
- Behavioral health
- Birth outcomes and maternal health
- Population health

Courses
- PH250B: Epidemiologic Methods II (Fall)
- PH255D: Methods in Social Epidemiology (Spring)

Jennifer Ahern conducts research in social epidemiology, a field that examines social and structural aspects of our environments, our interactions with one another, and how these phenomena shape our health and well-being. Her work focuses specifically on understanding the vulnerabilities imposed on populations by social circumstances and the various
ways these vulnerabilities may manifest in well-being or poor health, with a focus on factors that could be targeted for intervention. Complementing this content work, she proposes and applies novel methodologic approaches to improve the quality and interpretability of research in social epidemiology.

Lisa Barcellos Ph.D., M.P.H.
Associate Professor of Epidemiology

Research Interests

- Genetic epidemiology of complex diseases
- Identification of genetic and environmental risk factors for multiple sclerosis
- Genetic variation in the major histocompatibility complex (MHC) and autoimmune disease
- Maternal-child histocompatibility and risk of autoimmune disease
- Epigenetic contributions to autoimmune disease risk
- Application of causal inference methods to autoimmune disease studies

Courses

- PH150A - Introduction to Epidemiology and Human Disease
- PH 256 - Molecular and Genetic Epidemiology and Human Health in the 21st Century

Lisa is a genetic epidemiologist specializing in diseases of the immune system and is working to identify genetic factors that predispose people to autoimmune diseases and that modulate disease expression and clinical progression.

Most of her research to date has centered on multiple sclerosis (MS), and she and colleagues at the University of California, San Francisco (UCSF), have recently initiated new studies focused on systemic lupus erythematosus, rheumatoid arthritis, and other autoimmune conditions.

Barcellos is also investigating environmental exposures, such as smoking and maternal-fetal relationships. “I’d say in the last five years, it’s become even more apparent that environment is playing a huge role in autoimmune diseases, as well as other common, complex disorders like diabetes, heart disease, and mental illness,” she says. “Studies in genetic epidemiology are going to have to incorporate that information.”

John M. (Jack) Colford Jr., M.D., Ph.D., M.P.H.
Professor of Epidemiology

Research Interests

- Waterborne infectious diseases (domestic, developing country, and recreational water settings)
- Clinical trial design (individual and community-level)

Courses

- PH 250B: Epidemiologic Methods
- PH 252C: Intervention Trial Design

Jack Colford is a Professor of Epidemiology at UC Berkeley. He has led four triple-blinded, randomized controlled trials of drinking water and health effects, including a drinking water study in 22 villages in Bolivia. Colford has also worked with the World Health Organization and the World Bank to evaluate the effectiveness of drinking water treatments throughout the world.
Sandrine Dudoit Ph.D.
Professor of Biostatistics and Statistics

Research Interests

- Loss-based estimation with cross-validation
- Multiple hypothesis testing
- Statistical computing
- Design and analysis of high-throughput gene expression experiments based on next-generation sequencing and DNA microarrays
- Nucleotide and protein sequence analysis
- Genetic mapping of complex traits
- Analysis of biological annotation metadata

Courses

- PHC240C-D/STAT C245C-D: Computational Statistics with Applications in Biology and Medicine I and II
- PHC240E-F/STAT C245E-F: Statistical Genomics I and II

Professor Dudoit's research and teaching activities concern the development and application of statistical and computational methods to address problems in biomedical and genomic research. Professor Dudoit is also involved in the development of statistical software for biomedical and genomic data analysis and is a core member of the Bioconductor Project (www.bioconductor.org).

Brenda Eskenazi, M.A., Ph.D.
Jennifer and Brian Maxwell Professor of Maternal and Child Health and Epidemiology

Research Interests

- Effects of environmental exposures to reproductive, perinatal, and children's health
- Reproductive and development effects of passive and active exposure to cigarette smoke, benzene, dioxin, and other persistent endocrine disruptors, and pesticides, as well as other agents on fetal and child health and reproductive health of men and women
- Reproductive and pediatric epidemiology

Courses

- PH292.3: Seminar for Epi/Biostat Students
- PH293.7: Seminar for Doctoral Students

Brenda Eskenazi, PhD, is the Jennifer and Brian Maxwell Professor of Maternal and Child Health and Epidemiology at the University of California, Berkeley. She is a neuropsychologist and epidemiologist whose long-standing research interest has been the effects of toxicants including lead, solvents, environmental tobacco smoke, dioxin, and pesticides on human reproduction (both male and female) and child development. She is the Principal Investigator (PI) and Director of an NIH/EPA Center for Excellence in Children’s Environmental Health Research and its keystone project “CHAMACOS,” which investigates the exposure pathways and health effects of pesticide exposure in farmworkers and their children and...
develops interventions to prevent future exposure. She is currently investigating associations between pubertal development and endocrine-disrupting chemicals including flame retardants and pesticides in children of the CHAMACOS cohort. Dr. Eskenazi was also the PI on a grant aimed at understanding the effects of US-Mexico migration on childhood overweight; she conducted research on food insecurity, obesity, and maternal perception of child weight. She is also the Principal Investigator on other NIEHS-funded projects on endocrine disruption: one based in Seveso Italy investigating the reproductive health of a cohort of women exposed to high levels of dioxin which studies the age of onset of menarche among other endpoints, and another examining the effects of persistent and nonpersistent endocrine-disruptors on neurodevelopment. Dr. Eskenazi has just begun the VHEMBE study of the health effects of pyrethroids and DDT to children living in areas of South Africa sprayed for malaria control. Dr. Eskenazi has recently been awarded the LiKaShing award and the John R Goldsmith award for lifetime achievement in environmental epidemiology.

**Alan Hubbard Ph.D.**  
Associate Professor of Biostatistics

Research Interests

- Causal inference
- Statistical issues in infectious disease
- Bioinformatics

Courses

- PH242C: Longitudinal data analysis

Some of Alan’s creative achievements include: Bayesian inference applied to infectious diseases--using prior knowledge to gain efficiency; Parameter estimation and uncertainty in mathematical models of disease--estimating parameters (e.g., rate of secondary transmission) from outbreak data and disease models; Locally efficient estimation in censored-data models--using covariate information to get better estimates when data has many missing values; Causal inference--trying to estimate the causal effect of risk factors from observational data.

**Nicholas Jewell Ph.D.**  
Professor of Biostatistics and Statistics

Research Interests

- Statistical methods related to infectious diseases, including AIDS
- Biostatistical techniques in epidemiological data analysis
- Survival analysis and stochastic processes
- Genomics

Courses

- PH240B: Biostatistical Methods: Survival Analysis and Causality
- PH241: Statistical Analysis of Categorical Data

Nick Jewell is involved in the application of statistical techniques to problems arising from the health and biomedical sciences. Recently, his attention has focused on statistical issues associated with studies of the natural history of infectious
diseases including Human Immunodeficiency Virus (HIV) disease, Severe Acute Respiratory Syndrome (SARS), and H1N1 influenza. He is also investigating statistical tools for community trials for HIV prevention in Africa. Other interests include topics in causal inference and clinical trials, and statistical analyses of adverse health effects associated with therapeutic drugs including Vioxx and Avandia. From a statistical perspective, many of these problems concern survival analysis methods and other techniques for the analysis of incomplete data. He is a former President of the Western North American Region of the Biometric Society, and was Vice Provost of the Berkeley campus from 1994--2000, and then at the Office of the President from 2007-08.

Mahasin Mujahid Ph.D.
Assistant Professor of Epidemiology
Martin Sisters Endowed Chair in Medical Research and Public Health

Research Interests

- Multi-level determinants of racial/ethnic health disparities
- Neighborhood environments and cardiovascular health
- Breast cancer treatment and survivorship
- Methods in social epidemiology
- Population health

Mahasin Mujahid is an Assistant Professor of Epidemiology in the School of Public Health at the University of California, Berkeley. Her research interests include social epidemiology and population health with an emphasis on racial/ethnic and place-based health disparities. Dr. Mujahid employs interdisciplinary and community-based approaches to examining and intervening on the underlying causes of social disparities in health.

Dr Mujahid’s current research examines how features of neighborhood environments impact cardiovascular health and health disparities. Using data from several U.S. based cardiovascular cohorts, Dr. Mujahid seeks to improve the measurement of specific features of neighborhood physical and social environments and use state of the art statistical methods to estimate "causal" neighborhood health effects. In related research, Dr. Mujahid seeks to understand the multi-level and multi-factorial determinants of the clustering of cardiovascular risk factors (obesity, diabetes, hypertension) in racial/ethnic minorities and the consequences of this clustering on the long-term cardiovascular health of these groups.

Amani Nuru-Jeter Ph.D., M.P.H.
Associate Professor Community Health & Human Development and Epidemiology

Research Interests

- Race and socioeconomic inequalities in health
- Stress and coping
- Intersection of psychosocial stress and physiologic function
- Mixed methods research (quantitative and qualitative)
- Socio-environmental context (i.e., place effects) and person-environment interactions
- Measurement and study of racism as a determinant of racial health disparities

Courses

- PH255A: Social Epidemiology
Dr. Nuru-Jeter's broad research interest is to integrate social, demographic, and epidemiologic methods to examine racial inequalities in health as they exist across populations, across place, and over the life-course. Dr. Nuru-Jeter considers herself to be more "exposure" than "outcomes" focused, which is consistent with her interests in examining social factors such as "race" and "social class" as exposures that serve as the foundation for the creation and preservation of health disparities across a number of outcomes. She is interested in how these social exposures determine life experiences and opportunities differently for different social groups and how those differences become embodied and impact mental and physical health and well being.

Her current program of research consists of four inter-related areas of inquiry relevant to the study of racial health disparities: 1) the intersection of "race" and socioeconomic status and its effects on mental and physical health outcomes, 2) race and psychosocial and psycho-biological stress, 3) the measurement and study of racism as a key determinant of racial health disparities, and 4) socio-environmental context (i.e., place effects) and person-environment interactions. Dr. Nuru-Jeter is Principal Investigator of the African American Women's Heart and Health Study, which examines the association between racism stress, cardiovascular biomarkers, and biological stress among Black women in the Bay area with particular focus on coping mechanisms; and Co-Principal Investigator of the Bay Area Heart Health Study which examines similar associations among Black men with particular emphasis on coping mechanisms and internalized racism. Her research has included work on doctor-patient race-concordance; the intersection of race, socioeconomic status, and gender on risk for psychological distress, disability outcomes, adult mortality, and child health and development; racial segregation; and racism stress and mental health outcomes.

Maya Petersen M.D., Ph.D.
Assistant Professor, Biostatistics

Research

- Causal inference
- Dynamic treatment regimes
- HIV
- Antiretroviral resistance

Courses

- PH252D: Introduction to Causal Inference

Maya Petersen is an Assistant Professor of Biostatistics and Epidemiology at the University of California, Berkeley. Her research interests include the treatment of HIV resistant to antiretroviral drugs, the use of antiretroviral therapy in resource limited settings, and combined approaches for prevention and treatment of HIV infection. Methodologically, she is interested in the application of causal inference methods to observational clinical datasets, the development of methods to estimate the effects of individualized treatment strategies (dynamic treatment regimens), and the evaluation of community-based interventions. She has a strong interest in the interface between biostatistics, epidemiology, and clinical medicine, including the communication of new statistical methods to non-statistical audiences, and the application of advances in biological and clinical understanding of disease to drive the development of new statistical methodologies.
Arthur L. Reingold M.D.
Professor and Chair of Epidemiology and Associate Dean for Research

Research Interests

- Opportunistic infections in AIDS patients
- Interrelationship between tuberculosis and AIDS in developing countries
- Emerging and re-emerging infections in the United States and in developing countries
- Vaccine preventable diseases in the United States and in developing countries

Courses

- PH250A: Epidemiologic Methods I
- PH257: Outbreak Investigation
- PH292.2: Faculty Research Seminar
- PH292.6: Seminar for 1 yr Epi Program
- PH112: Global Health
- PHC117: Introduction to Health Disparities
- PHC253: Foundations of Public Health

Arthur Reingold, MD, is currently the Edward Penhoet Distinguished Professor of Global Health and Infectious Diseases and Associate Dean for Research at the School of Public Health, University of California, Berkeley. He also holds concurrent faculty appointments in the Departments of Medicine and Epidemiology and Biostatistics at University of California. Professor Reingold has worked for over thirty years on the prevention and control of infectious diseases both at the national level, including eight years at the US Centers for Disease Control and Prevention, as well as with numerous developing countries around the world. His research interests include vaccine preventable diseases, respiratory infections including influenza, bacterial meningitis, disease surveillance, and outbreak detection and response. He has published over 200 original research papers on these subjects and teaches a wide variety of courses on related topics at University of California, Berkeley and at numerous other universities around the world. Among other honors, he was elected to the Institute of Medicine of the National Academy of Sciences in 2003.

Steve Selvin, PhD
Professor of Biostatistics

Research Interests

- Epidemiologic methods
- Spatial analysis
- Matched pair design and application to genetic problems
- Statistical analysis of epidemiologic data

Courses

- PH142: Introduction to Probability and Statistics in Biology and Public Health
- PH252: Epidemiologic Analysis
Professor Selvin is presently involved in an extensive and unique study of childhood leukemia (Northern California Childhood Leukemia Study; P. A. Buffler, Principal Investigator) as a statistical consultant and serves as the statistical mentor for students and advisor to faculty involved in various research projects. Over the last several years, students and research staff have completed work in a variety of contexts (e.g., class projects, masters degree papers or partial work on PhD thesis topics) and were encouraged to develop this work further into formal presentations for annual conferences (primarily poster sessions). The two obvious benefits are that these students participate in national/international scientific meetings and valuable information on childhood leukemia is made widely available. Thirteen such epidemiologic/biostatistical projects have been presented. Professor Selvin provided the statistical advice and guidance for these student projects.

Allan H. Smith M.D., Ph.D.
Professor of Epidemiology

Research Interests

- U.S. and international studies of the health effects of arsenic in drinking water
- Risk assessment for occupational and environmental exposures
- International health studies

Courses

- PH200C1: Environmental Health Science Breadth Course
- PH251C: Causal Inference and Meta-Analysis in Epidemiology

Allan H. Smith, M.D., Ph.D., is the director of the Arsenic Research Program and a Professor of Epidemiology in the School of Public Health at the University of California, Berkeley. The arsenic research activities began with a risk assessment focusing mainly on cancer. This work revealed the cancer risks from inorganic arsenic in drinking water to be potentially very high.

Mark Van Der Laan Ph.D.
Jiann-Ping Hsu/Karl E. Peace Professor in Biostatistics

Research Interests

- Causal inference in longitudinal studies
- Optimal methods for high dimensional censored data
- Computational biology
- Data adaptive learning

Mark van der Laan, Ph.D. is a Professor of Biostatistics and Statistics at UC Berkeley. His research interests include statistical methods in genomics (i.e., computational biology), survival analysis, censored data, targeted maximum likelihood estimation in semiparametric models, causal inference, data adaptive loss-based super learning, and multiple testing.

His research group developed loss-based super learning in semiparametric models, based on cross-validation, as a generic optimal tool for estimation of infinite dimensional parameters, such as nonparametric density estimation and prediction based on censored and uncensored data. Building on this super learning methodology, his research group developed targeted
maximum likelihood estimation of a target parameter of the data generating distribution in semiparametric models, as a new generic optimal methodology for statistical inference. These general statistical approaches are applied across a large variety of applications such as in the analysis of clinical trials, assessment of (causal) effects in observational studies and the analysis of large genomic data sets.

STAFF

Janene Martinez

Student Services Advisor; Epi and Epi/Biostat Programs

Originally hailing from Southern California, Janene moved to Berkeley in 2003 for her undergraduate career and double-majored in History and Ethnic Studies. She has been working on campus since 2007 and has been advising graduate students since 2008; first at the Department of Materials Science and Engineering and now in the Division of Epidemiology. Janene started her position in the School of Public Health in May 2012 and greatly enjoys the working relationships she has been able to create and foster with staff, faculty and students.

Janene is also part of two SPH committees: The Staff Advisory Council (SAC) a committee that advocates on behalf of staff and the Recognition and Enrichment Committee (REC) which plans staff luncheons and holiday events. In her spare time Janene loves to throw dinner parties, work out, walk along Lake Merritt and listen to music.
# Faculty and Staff Contact Information

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<td>TBD</td>
<td>Assistant Dean of Students</td>
<td>TBD</td>
<td>643-8452</td>
<td>417-P U-Hall</td>
</tr>
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