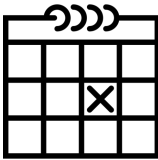# Data Science Newsletter

Greetings from Data Science Advising. Welcome to the seventh issue of our Newsletter! If you missed previous issues, make sure to check them out here.

**Good luck on all of your Finals, and have a great summer!**

## Major Updates

**Drop-In Advising Updates**

There will be **no Major Advisor drop-in advising in the summer beginning next week**, but students can still schedule appointments to speak with a major advisor.

**Call for Data Science Commencement Volunteers!**

As you all know, the first ever Data Science Commencement will be on May 19th, 2019. We have a need for volunteers to help the day of with the handing out of programs, general crowd control, and other logistical duties.

**Data Science JUNIORS**, consider this an opportunity to pay it forward! If you are available we would really appreciate your help. Please sign up to volunteer **HERE**.

Thank you all in advance, we aren't able to make this very first commencement a success without your help.

## Student Resources

**University Health Services - Stress**

UC Berkeley students work hard and face high amounts of stress. Whether we like it or not, stress will always be a part of our lives. So it's not about avoiding stress but knowing yourself (your limits and your strengths) and being proactive.

There are times when demands we face tax us to the point that we feel we cannot cope. We begin to feel overwhelmed, anxious, depressed, helpless and/or angry. Some of us have

physical symptoms such as sleep and/or appetite disturbance, physical tension or depleted energy. Others might experience intellectual roadblocks from stress such as test anxiety, procrastination, or lack of motivation. Stress can impact us socially as well, by causing us to withdraw, feel isolated or even become aggressive.

Believe it or not, sometimes a little stress can be helpful, motivating us to prepare and perform. Finding the right balance and attitude towards stress helps. Take time to learn more about stress and how to manage it.

**Here are some resources:**

**Information on Stress Management**
- Stress Management handout from UHS Health Coaches
- Stress Management Techniques and Practices
- Stress Management
- Deep Breathing and Relaxation Exercises
- Spiritual Wellness
- How to make stress your friend
- Tang Health Topics - Mental Health

**Tang Resources for Stress Management**
- Counseling appointments
- Health coaching appointments
- Health and wellness groups
- Massage chairs
- Pet Hugs
- Health Workers (for those living in residence halls and various other housing: Who's your Health Worker)

Please visit University Health Service's website to find more information and additional resources.

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## Student Opportunities

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**Data Internship at East Bay Regional Park District**

The East Bay Regional Park District is looking for one intern to assist with the development of a species database for the Stewardship Department to manage resources and aid in long-term management of biological resources. The intern will also assist with data entry and must have experience using Microsoft Excel, Access, and other database programs. Preferred fields of study: Data Science, Statistics, GIS, Biology, Ecology, or related Natural Resources field. This project is expected to last a maximum of 600 hours. Primary work location is the Administrative Headquarters (Oakland).

For more information and to find the application, please click **here**. The application deadline is **May 17th, 2019**.

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**Seeking Public Health Data Science Research Assistant**

**Position Start Date:** 6/1/2019 (a fall semester start date is also possible)
**Work Hours:** Variable, 10 hours/wk on average (range: 5–20 hours/wk)

**Description:** The Colford-Hubbard research group in the School of Public Health manages several research projects at the local, state, national, and global scale, and faculty in the group teach several classes in the School of Public Health, including global health and epidemiology courses. The research team is seeking an undergraduate student for a paid research assistant position to serve as a data science intern, working on a variety of initiatives in problem solving, statistical modeling, data engineering/infrastructure, and education. Time commitment for the position is fairly flexible, and in general, the assistant will work around ~10 hours/wk. We are looking for a candidate to begin working in the 2019-2020 school year with the possibility of continuing beyond 2020. This is an excellent opportunity for a motivated undergraduate student to gain experience in data science via Public Health research + education initiatives through a part-time position. In addition, a portion of the first year will be spent assisting/shadowing current research assistants who have been with the lab and are graduating in 2020.

**Qualifications:** An ideal candidate would be seeking an undergraduate degree in Public Health and Data Science, Computer Science, Statistics, or a related field. Strong computing skills (or a trajectory to them, such as taking CS61A/B currently or in the future), some Data Science/Statistics experience, and a passion for making the world a better place are all minimum prerequisites to the position. Strong verbal and written communication skills, ability to follow both detailed and open-ended instructions while working independently and strong organizational skills are also a must.

**Additional Qualifications:** Experience in CS61A (or Data8 + CS88) + CS61B is a big plus. Prior experience working in research, familiarity with R or Python, and an understanding of basic math (Math 10A/10B), statistics (Stat 2/20, Data 100, PH142) or epidemiology (PH 150A) or the plan to take those classes as an undergraduate is preferred. Deeper experience in visualization, data wrangling/cleaning, machine learning, computer networking or security (CS161/168) is a plus.

This position is open to **work study** candidates. Applications will be accepted until the position is filled.

**Apply here**. Please email jadebc@berkeley.edu if you have any additional questions.

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**Deloitte Corporate Finance - Investment Banking Analyst (Full-Time Summer 2020)**

Working closely with clients, you will provide recommendations that are aligned with an organization's business goals and overall strategic and transactional objectives. Constructing financial models to help clients assess growth strategies, capital structure decisions, and transaction alternatives, will help you develop a comprehensive technical skill set at an early career stage.

Concurrently, you will employ a number of core valuation methodologies to help businesses evaluate their worth in the marketplace and advise them on appropriate ranges at which to conduct transactions. Also, you will have the opportunity to learn how to appropriately position businesses in the investor community by articulating value propositions and anticipating potential concerns.

Across these responsibilities, you will receive considerable exposure to senior bankers and clients as you participate in each phase of the transaction process. From preparing a pitchbook to win an assignment, to **traveling across the country** to conduct financial and operational due diligence on behalf of a client, Analysts on our platform have an

immediate opportunity to add significant value on their teams.

**To view the Handshake listing for more information, please click [HERE](#).** Apply by Thursday, Aug 1, 2019.

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## Summer and Fall 2019 Courses



### UGBA 147.1A: Advanced Business Analytics (Summer Session A)

**When:** May 28th - July 5th, MWF 3:30pm-6:00pm

Unfortunately, this course is *at risk of being cancelled* by the end of this week due to low enrollment. We currently have only 13 students enrolled in this class and need a minimum of 14 to keep this class running this summer. It would be unfortunate to cancel this class because we are one student short of the minimum enrollment requirement.

Please help spread the word about this available course. We are **not** offering this course in the Fall 2019 semester, so if anyone is truly interested, they should consider taking this course this summer. Please note that the recommended prerequisite of **UGBA 104 (Intro to Business Analytics)** or its equivalent is **NOT enforced** in the summer.

Please feel free to refer students to the instructor, **Richard Huntsinger** at rhuntsinger@berkeley.edu, should they have any questions about this course.

This course is open to both **undergraduates and graduate students**. For those interested in enrolling, please refer them to the following link http://summer.berkeley.edu/apply for registration information.

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### PH 196: Artificial Intelligence for Medicine and Health Policy (Fall 2019)

**Faculty Instructor**: Ziad Obermeyer
**Links**: CalCentral, Schedule of Classes (Class #33297)

#### Course Overview

Over the coming decades, data and algorithms will transform medicine and our health care system. Whether you plan to be a doctor, an algorithm developer, or work elsewhere in the health sector, this course will help you understand the tremendous upside of artificial intelligence for health: what the tools of machine learning can do in this important sector, and where they can do harm. The course will focus on teaching concepts, not the mechanics of specific algorithms. But genuine conceptual understanding will require engagement with technical content (e.g., readings from computer science and statistics, problem sets requiring analysis of real datasets with statistical software). As a result, it is designed for students who are already comfortable with basic data analysis, thanks to coursework in data science/computer science, biostatistics/statistics, or economics (e.g., you should already know how to load and manipulate datasets in statistical software).

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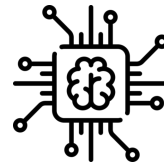
## Upcoming Events

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**Amazon Meets Berkeley Day**

On **Friday, May 10th**, there will be a symposium in the **Banatao Auditorium** in **Sutardja Dai Hall** featuring researchers from Amazon and Berkeley. Amazon has joined the **Berkeley AI Research Commons** as one of its founding members, and the symposium will help to frame this exciting new collaboration.

A major theme of the day will be the emerging connections between computer science, economics, optimization and statistics, a nexus where new perspectives and tools are needed to address major challenges in areas such as commerce, services, search, human-machine interaction and supply chain modeling and optimization.

The event is open to all. If you wish to attend, please register **here**.

**Event Contact:** bair-admin@berkeley.edu.

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**Spring 2019 Data Science Commencement**

UC-Berkeley's first **#CalDataSci19** commencement for data science graduates will be held on Sunday, May 19th, 2019! About **100 graduates** will join the celebration on 5/19. **Kate Johnson**, President of Microsoft U.S., will address the newly-minted DS grads as our commencement speaker!

**Please come volunteer to help out at Commencement (see call for volunteers mentioned above)! Sign up here.**