

Hi CEE Graduate Students,

Please see this week's announcements below:

Job Opportunities

Spring Graduate Reader Positions

Spring 2022 ITA 003 TA Position

Spring 2022 ASA TAship Open Positions

Professional Development and New Courses

New Course: Path to Zero Net Energy

AgChem Colloquium: Speaker Meeting Interest Form

Winter Internship and Career Fair

The Public Scholars for the Future Program

UCD One Health Retreat

EPS Seminar Talk: Microbial Mediated Geophysical Signatures and the Search for Life in Extreme Environments

Multiculturalism in Mentoring Relationships: Acknowledging Bias

Spring 2022 Course: D-Lab - Designing Accessible Spaces

EERI Friedman Lecture

Scholarships

Beyond the Barriers Basic Needs Grant

Job Opportunities

Spring Graduate Reader Positions

The History Department is seeking applications for multiple Graduate Reader positions for Spring 2022 for the following History courses: HIS 120, HIS 125, HIS 132, HIS 146B, HIS 174B, HIS 189. Interested applicants can preview the [expanded course descriptions](#) on our website. These appointments range from 25-40% of full time and would be responsible for grading for 40-75 students.

Applicants are required to submit a cover letter and CV which specifically describe how they meet the qualifications for these positions (see qualifications below). Applications without cover letter and CV will not be considered.

If you have previously served as a TA or Reader for History, please note this (and the courses for which you served) on your cover letter and/or CV.

Readers-

Generally, readers are expected to attend lectures, evaluate student work, and maintain grading records.

Applicants must be graduate students that meet all the eligibility requirements set by the Office of Graduate Studies for employment.

Qualifications: Background in History or related field of study.

Experience teaching reading and writing intensive courses, specifically giving feedback on writing assignments.

Degree Level: Bachelor's or Master's

Desired Skills: Writing, Social Sciences, Humanities, Grading

Desired Majors: Social Sciences and Humanities

Salary Level: \$17.78/hr

Positions are open until filled. Interested candidates should submit their application ASAP.

Spring 2022 ITA 003 TA Position

The Department of French and Italian is seeking a Graduate Student Instructor for Elementary Italian (ITA 3) during the Spring quarter 2022. The position is 50% time for a class that meets five days a week. The Instructor will assist in preparation for lectures and graded materials; maintain student records and grades; prepare and maintain course website; read and evaluate written and oral assignments; proctor all exams including the Final Exam. Additionally, the instructor will hold 2 office hours per week in Sproul Hall.

Qualifications(Required)

Qualified Applicants:

*Must have attended, or will attend prior to beginning position, the CEE TA orientation (offered each September)

*Must complete Sexual Harassment Prevention Training online prior to beginning position.

*Must have undergraduate or graduate work in Italian or related field

*Must read, write and speak Italian fluently.

*Must be eligible to hold an academic appointment.

Preferred Qualifications:

*Experience as a teacher, TA or Grader/Reader

Handshake #4305468

Spring 2022 ASA TAsip Open Positions

UC Davis Asian American Studies is hiring TAs for the following Spring 2022 courses:

- ASA 01 Historical Experience of Asian Americans with Dr. Richard Kim

- ASA 04 Asian American Cultural Studies with Dr. Mana Hayakawa
Please note that you must be available to TA for a 50% position (2 sections) and attend lectures. You must also meet the TA requirements such as being registered for at least 12 units, good academic standing, etc.

Spring Quarter course schedules are announced via Schedule Builder, please make sure the courses you are taking are not conflicting your TAs hip lecture and assigned section schedules.

ASA 01 Historical Experience of Asian Americans with Dr. Richard Kim

Please include in the email TWO sections you are interested in and which sections you absolutely CANNOT attend.

ASA 01: Historical Experience of Asian Americans

Lecture: Tuesday/Thursday 2:10-3:30 PM

Section A01: Monday 10:00-11:50 AM

A02: Tuesday 4:10-5:00 PM

A03: Wednesday 3:10-4:00 PM

A04: Tuesday 7:10-5:00 PM

A05: Monday 3:10-4:00 PM

A06: Tuesday 6:10-7:00 PM

A07: Wednesday 4:10-5:00 PM

A08: Friday 11:00-12:00 PM

ASA 001 is an introductory survey of the history of Asian Americans from the time of early migrations in the mid-nineteenth century to the late twentieth century. The course situates the study of Asian American historical experiences within the broader context of U.S. history. Using a broad range of course materials that include academic articles, literature, and primary source documents, we will examine a wide range of themes and issues for understanding Asian American history. Main topical areas include imperialism, foreign relations, immigration, exclusion, labor, community formation, transnationalism, intergenerational relations, race relations, and social/political activism. We will study these topics through the historically changing intersections of race, ethnicity, class, and gender, which have shaped the development of social, economic, and political conditions in U.S. history and society over time. In doing so, ASA 1 explores the historically contingent conceptions of what it means to be American. Course format consists of lecture and weekly discussion sections.

ASA 04 Asian American Cultural Studies with Dr. Mana Hayakawa

Please note you must be available to teach the two sections listed below

ASA 04: Asian American Cultural Studies

Lecture: Monday/Wednesday 10:30-11:50 AM

Section

A01: Tuesday 5:10-6:00 PM

A04: Thursday 5:10-6:00 PM

This course takes a cultural studies approach to deepen our understanding of the social and political location of Asian Americans. Students will examine how Asian American artists-- from actors, directors,

dancers, drag queens, and beyond-- perform their "otherness" and excellence as a means to critique and conform to notions of citizenship. Addressing intersections of race, gender, class, sexuality, and ability, students will analyze key concepts including nationalism, imperialism, modes of resistance, and coalitional movement building through discussion (and practice) of various cultural productions.

Please send your resume or CV as soon as possible to the ASA Program Coordinator Angel at anjtruong@ucdavis.edu and indicate which course(s) you are interested or available to teach. Please also note in the email or CV/resume if you have experience in taking or teaching ASA or Ethnic Studies courses. If you have any questions or concerns, please also reach out to Angel via email.

Professional Development and New Courses

New Course: Path to Zero Net Energy

This project-based class gives students the opportunity to help clients solve real-world problems relating to energy. There are a range of project topics to choose from, including building energy efficiency, electrification, and energy behavior & communication. We bring in guest speakers from UC Davis and beyond to cover the basics of building science, energy economics and project management, as well as important developments in the conversation around ZNE such as equitable decarbonization and resiliency. Students from a variety of graduate programs and majors are encouraged to join, as the class aims to address energy issues from multiple perspectives.

For more information you can visit the [course website](#), explore [past projects](#), or attend the course information session on Friday February 18th (see attached flyer). If you have any questions, please reach out to Meena Venkatraman at mvenkatraman@ucdavis.edu.

AgChem Colloquium: Speaker Meeting Interest Form

We are in the process of scheduling times for meetings with external speakers for the 50th annual Agricultural Chemistry Colloquium. We are trying to gauge interest in group lunches and one-on-one meetings so please help us by filling out this form if you may be interested in meeting with one or more of the external speakers: [Speaker Meeting Interest Form](#). This form is due this Thursday, February 17th. For lunches, Thursday (1-2 pm) we will host Dr. Kostecki at an outside campus location and will be providing Zia's (please fill out the speaker interest form for an accurate headcount) and Friday we will host Dr. Snapp via Zoom (1-2pm).

The speaker's presentation schedule, titles, and abstracts are as follows:

1. Dr. Robert Kostecki (speaking on 2/24/22 @ 12:00pm)

Rechargeable batteries – from fundamental research to large scale applications

The past 200 years of engineering of electrochemical energy storage systems have been explicitly focused on understanding the fundamental limitations of energy density and power density and optimizing these metrics for a given application. Because of the current world-wide emphasis on the importance of energy conservation, and in part because of tremendous technical advances in battery performance, large numbers of people are entering the battery field who have expertise in experimental

and theoretical approaches that have not traditionally been applied to batteries. Completely new battery chemistries and formats are being demonstrated at an increasingly rapid pace. In the last decade, capital cost, operating cost, cycle life and calendar life have become equally important metrics. But while energy and power studies have roots in fundamental chemistry and physics, the latter metrics were typically relegated to manufacturing and warranty concerns. Although commercial batteries have been available for over 150 years there are still many fundamental gaps in understanding the atomic- and molecular-level processes that determine and govern their function, operation, performance limitations and failure. Moreover, designing batteries is a highly empirical process, where the chosen solution is often simply to greatly overdesign the battery. This presentation will discuss various aspects of the secondary battery R&D within its current and historical science and technology context.

2. Dr. Sieglinde Snapp (speaking on 2/25/22 @ 3:30pm)

A Soil Living Laboratory in Africa: Linking local knowledge to remote sensing

Agricultural development and sustainable soil management on smallholder farms is challenged by complexity, as well as high uncertainty and value conflicts. There is widespread interest in how local adaptation can address this challenge, through co-learning with farmers, hand-held sensors, and remote sensed data analytical approaches. We are testing approaches through a living lab on-farm platform in Central Malawi <http://globalchangescience.org/eastafricanode>. This was established in 2013 with soil scientists, agronomists, geographers, extension educators and agricultural economists working together with rural communities and farm families. This was supported by the USAID Feed the Future program, as part of the Africa RISING partnership in Malawi. Our soil living lab involves annual monitoring of 1000s of fields, participatory action research on integrated nutrient management and sustainable intensification, carried out with hundreds of farmers. Malawi government has released technologies such as the doubled up legume rotation for soil rehabilitation, based on this research platform. Recent findings highlight the role of crop diversification, weeds and residues in soil carbon status, conditioned by soil texture. This talk will highlight how a learning laboratory can complement traditional research and extension approaches.

3. Professor Jasquelin Peña (speaking on 2/25/22 @ 12:00 pm)

4. Alex Chassy (speaking on 2/25/22 @ 2:00 pm)

Analytical Chemistry in Industrial Biotechnology: An Amyris Case Study

Amyris is an established leader in bringing new products to market through sustainable, industrial biotechnology. For example, the high-quality skin emollient squalane was previously only accessible by harvesting it from deep-sea shark livers, which threatens shark species and endangers oceanic ecosystems. Amyris developed an alternative to shark-derived squalane that is sustainable, effective, and commercially scalable using sustainably sourced sugarcane, engineered yeast, and Amyris' fermentation technology. Amyris now produces sugarcane-derived squalane at scale for the skincare industry, led by the Amyris brand Biossance. Similarly, Rebaudioside M, the most promising zero-calorie steviol glycoside sweetener in *Stevia rebaudiana* plants, only represents <0.1% of all steviol glycosides, making it unsustainable to access and purify at scale. Amyris now produces cost-effective, high-purity Rebaudioside M at scale through fermentation, granting the food and flavor industries access to this healthy sugar replacement. While microorganism development is often viewed as the primary platform of an industrial biotechnology firm, analytical chemistry serves as the critical underpinning that supports the product development pipeline. Using Rebaudioside M as an example, the analytical methods employed to bring this product to market will illustrate the diversity of techniques utilized at Amyris and how methods are tailored to meet the demands of each step in the pipeline (strain engineering, scale-up fermentation, product purification, and final product).

Winter Internship and Career Fair

Date: Thursday, February 24, 2022

Time: 10:00 am to 4:00 pm PT

Location: Online via Handshake

We will have 70+ employers out of 100 targeting graduate students and/or postdoctoral scholars, with diverse employers ranging from biotech companies and wineries to government agencies and national labs.

To attend, students, postdocs, and alumni can register and then sign up for group or one-on-one sessions. If the employer does not have sessions yet, follow the employer on Handshake, enable notifications to receive updates on newly created sessions, and check back often.

For your convenience, we are linking a view-only Google spreadsheet highlighting the employers, the positions they are hiring for, their targeted degree areas, which links to a separate sheet of session fill rates. This spreadsheet is not comprehensive; therefore, we encourage you to visit the fairs on Handshake or employers' websites to view all job opportunities.

[Click here to view the Google Sheet of Employers](#)

The Public Scholars for the Future Program

UC Davis Public Scholarship and Engagement and Graduate Studies have partnered together to launch a new program to support doctoral students who are interested in developing their community engaged research with non-university partners. The aim of the program is to integrate community-centered theories, methods and techniques into the practice of the next generation of public scholars. Key to this is community engagement, which can be defined as a collaborative process with a specific community (i.e., place, practice, identity, and/or interest) that centers on a common goal or outcome and defined by reciprocal and mutually-beneficial relationships. Upon completion of the program, students will be prepared to incorporate community engagement into their disciplinary field of study, research design and methods.

This is an interdisciplinary cohort-based program open to graduate students in any UC Davis college or school who plan to register for in-person instruction in the 2022 spring quarter.

Applications for this program are due March 1, 2022. Additional information can be found at the [program website](#).

Additionally, there will be opportunities for faculty mentors to interact with the Public Scholars students this summer. Please stay tuned for info on that, or feel free to reach out if you are interested in learning more.

UCD One Health Retreat

The One Health club at UC Davis is holding a retreat for UCD graduate and professional students at UC Berkeley's Hastings Natural History Reservation from **April 1-3**. The purpose of this retreat is to meet students from other grad/professional programs, discuss One Health issues and how they pertain to the various represented disciplines, and practice communicating with people outside of your academic

bubble! Open to **all** graduate/professional students who are interested in using One Health/collaborative approaches in their career. Please fill out this [info form](#) if interested.

EPS Seminar Talk: Microbial Mediated Geophysical Signatures and the Search for Life in Extreme Environments

Estella Atekwana, UC Davis
February 23, 2022, 4:10 PM, 55 Roessler Hall

Microorganisms are found in almost every conceivable niche of the Earth from hydrothermal vents in the deep ocean basins to the cold subglacial lakes of Antarctic ice sheets. As such, microorganisms have played an important role in transforming Earth systems (e.g., accelerating mineral weathering), global climate change, and mediating different biogeochemical cycles over most of Earth's 4 billion history. In-situ microbial-rock interactions are dynamic and occur at both temporal and spatial scales that prove difficult to investigate at resolutions needed to fully understand them, thus necessitating the need for the development of non-invasive tools/sensors to interrogate these processes. Interestingly, these microbial-rock interactions modulate changes in rock physical properties, generating measurable geophysical signatures that can be recorded with conventional geophysical sensors (e.g., seismic, magnetics, electrical and electromagnetic). The recognition of these microbial-catalyzed changes in geophysical signatures resulted in the development of Biogeophysics: the study of the physical changes in earth materials catalyzed by microorganisms that are observable with geophysical techniques, as an interdisciplinary field of study. In this presentation, Atekwana will provide examples of how geophysical tools are used to sense subsurface microbial activity, from cell growth and biofilm formation to biomineralization and biogeochemical cycling of metals to the monitoring of microbial-induced natural attenuation of contaminants. Challenges and limitations will also be highlighted and potential for use in the search for life in extreme environments will be explored.

Multiculturalism in Mentoring Relationships: Acknowledging Bias

Please join us tomorrow, Tuesday March 1, 2022 from 2 pm to 3 pm for the first of the Multiculturalism in Mentoring Relationships Seminar Series. This series is focused on providing mentors with the knowledge and tools to improve their multicultural competency and support students from historically underrepresented groups.

The Graduate Student Advisor to the Dean and Chancellor (GSADC) – Daisy Hernandez - will share how bias can affect your mentoring relationships and how to overcome bias through acknowledgement and diversity practices.

Door prize drawing: with each talk attended, students earn one (1) entry into a drawing for one (1) of five (5) \$50 VISA gift cards. Winners will be contacted following the conclusion of the speaker series.

Register for this series here:

<https://ucdavis.zoom.us/meeting/register/tJcpduGqrD8jGtdjwR653bY2VQEnhBX-AsBz>

After registering, you will receive a confirmation email containing information about joining the meeting.

Please email gradassistant@ucdavis.edu with any questions.

Spring 2022 Course: D-Lab - Designing Accessible Spaces

Want to learn hands-on design skills? Want to help build the new ESDC? Want to win cash prizes?

Course Description: D-Lab II is a design, build, test course focused on designing accessible spaces for the new Engineering Student Design Center (ESDC). Taught by Professor Kurt Kornbluth, this studio-style course focuses on the design process and prototype construction and testing. Graduate and undergraduate students of all disciplines can apply.

Admission by application only. Please visit <https://tinyurl.com/3p2ebvuv> to apply and receive the CRN.

More information about the course and past projects are available here: <https://piet.ucdavis.edu/dlab2>. Flyer is attached.

Course Name: ABT 289A (D-Lab II)

Units: 4

Meeting times: MW, 10am-11:50am

Location: Wellman 25

Prerequisites: Admission by application only.

EERI Friedman Lecture

The EERI Student Chapter at UC Davis is excited to host the **2022 EERI Friedman Lecture on Friday, March 4th at 9:30 a.m.** (Kemper Hall 1003). Our visiting professional is **Dr. Christine Beyzaei, Research Engineer (NIST)**, whose talk is titled **“Liquefaction of Silty Soils: Investigations in Christchurch, New Zealand.”** See the flyer to learn more about Dr. Beyzaei.

Scholarships

Beyond the Barriers Basic Needs Grant

As a formerly incarcerated or system-impacted student you may be experiencing many barriers including those that directly impact your financial and basic needs. Through funding provided by the Basic Needs Center, Beyond the Barriers may be able to offer some economic relief to help offset the cost of housing and/or food insecurity. Grants will be offered on a sliding scale but will not exceed \$1000. Grant application will be open from February 11th and remain open until funds are expended. First review of applications will begin March 1st and the second review will occur on April 1st. Applications may take up to two weeks to process.

We encourage the following students to apply:

- Enrolled in the current academic quarter (at least 6 credits/units) or session as a UC Davis student.
- Have demonstrated financial need
- Identify as formerly incarcerated or system impacted

Selection Process:

Applications will be considered on a first-come, first-serve basis with priority given to students with the most demonstrated need. Please email system-impacted@ucdavis.edu for questions or clarification.

Visit Beyond the Barriers (beyond.ucdavis.edu) and Aggie Compass (aggiecompass.ucdavis.edu) for more

campus and local resources.

Additional Resources:

We encourage students to utilize other campus resources

- Aggie Compass Basic Needs Center: aggiecompass.ucdavis.edu

- Beyond the Barriers: <https://beyond.ucdavis.edu/campus-support-system-impacted-people>

GRANT APPLICATION LINK: <https://tinyurl.com/beyondthebarriers>