

From: [Rufa N Pazyuk](#)
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Subject: CEE Graduate Student Weekly Newsletter
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Hi Civil and Environmental Engineering Graduate Students,

Welcome to virtual spring quarter—hopefully week one was great! I hope everyone had a safe and healthy spring break and is adjusting well to this new normal. Please see the weekly newsletter below:

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*** *If you are looking for a position within CEE please visit:

<https://cee.engineering.ucdavis.edu/graduate/current-graduate-students/teaching-assistants-and-readers>

Fellowship

Getches-Wilkinson Center at the University of Colorado Law School: Fellowships

The Getches-Wilkinson Center for Natural Resources, Energy and the Environment at Colorado Law recently **launched a national search for the inaugural pair of Getches-Wilkinson Water Fellows**. The intensive two-year program will immerse the two Fellows in the real world challenges of water law and policy. They will address critical issues affecting western watersheds, conduct reform-oriented research on pressing issues in the field, and interact with public and private sector leaders to inform policymaking. The Fellows will be actively engaged in water law reform in the public interest and will hone their leadership, communication, advocacy, and research skills. The overarching objective of the program is to create a matchless educational and mentoring experience that will prepare the Fellows to become leaders in the field. The salary is \$68,000 per year plus benefits, and includes a \$5,000 professional development fund for leadership training, travel to

conferences and other relevant educational opportunities.

The job description and application process are available here: [Getches-Wilkinson Water Fellows](#).

Support In Different Centers

Internship and Career Center: Virtual Career Services

The ICC offering our one-one career advising appointments via **phone call** and **video call** (Zoom meetings) for master's students, PhD students, and postdocs.

Appointments are still scheduled on [UC Davis Handshake](#)

For phone calls, students can provide their phone number in the "Comments" section.

For video calls, students will receive a Zoom meeting link by the day of the appointment.

Master's students can quickly get an appointment to have a CV or resume reviewed by a peer advisor by selecting "Master's - resume review" as the appointment type.

Grad Student and Postdoc Job Search Support Group (Zoom meetings):

11:00am-noon PDT, every Friday in April

April 3-24, 2020

12 max participants

RSVP on [Handshake](#) to receive the Zoom Meeting links:

[April 3](#)

[April 10](#)

[April 17](#)

[April 24](#)

Join these virtual groups to connect with other **UC Davis graduate students actively seeking a full-time job** during these uncertain times. Share ideas, talk to others, and give and get support.

Facilitated by a career advisor. All majors and fields of study welcome. Capped at 12 participants per meeting.

Open to UC Davis masters students, PhD students, postdoctoral scholars, and recent alumni (less than 1 year) of UC Davis masters and PhD programs who are actively seeking full-time employment in any field.

Other ICC Virtual Services

Check out our website for the latest updates, including **videos and online workshops**

<https://icc.ucdavis.edu/services/available-remotely>

GradCareers email listerv

[Subscribe](#) to the "Grad Careers" email listerv for a once-a-week email with job postings and other career related information.

Center for Advocacy, Resources & Education: Connect and Support (Attached)

We here at CARE would like to ensure that the UC Davis community knows that we are still available

and committed to supporting survivors of sexual harassment, sexual assault, intimate partner violence, and stalking.

Please join us, virtually, this Friday, April 3rd from 2:30-3:30 PM for an informational session on our services, how to make a referral, and much more. If you would like to attend this session, please register to receive Zoom information by [clicking here](#).

Ombuds Office: Supporting Students

The Ombuds Office remains fully operational via phone and Zoom as we continue to serve all members of the UC Davis and UC Davis Health communities. We have added a page of online resources that can help with conflicts or concerns during the current health situation. Information includes how to lead through challenging times, communicate through conflict, and successfully work remotely. Visit the webpage here: <https://ombuds.ucdavis.edu/virtual-resources-challenging-times>.

In times of crisis, change, and uncertainty, tension inevitably increases and people's ability to constructively manage conflict diminishes. In one-on-one confidential appointments, we offer a listening ear and guidance on how to navigate difficult situations in a thoughtful and effective way. Through these off-the-record conversations, we can provide resources, identify options, and discuss strategies for pathways forward to reduce the negative costs and effects of work and academic-related conflict. In addition to individual sessions, the Ombuds Office provides mediations, trainings, group processes, and systemic feedback.

To schedule a confidential appointment please give us a call at (530) 754-7233 or (916) 734-1600. You can also visit our website at <https://ombuds.ucdavis.edu/> to learn more about our services, including an upcoming webinar on communication in uncertain times.

Non-CEE Spring 20 Courses and TA Positions

HYD 274: Practice of Groundwater Flow & Transport Modeling

Course Instructor: Thomas Harter, Ph.D., 125 Veihmeyer Hall, ThHarter@ucdavis.edu

<http://groundwater.ucdavis.edu/gwmodelingcourse.htm>

Credits: 3 (letter graded)

Time: Lecture-Lab Wednesday Morning 9-12 (lectures at your schedule, lab and discussion live online)

GUEST LECTURERS INCLUDE Dr. WES HENSON (USGS, on MODFLOW OWHM/FARM Package)

In this hands-on laboratory course, students learn how to do develop their MODFLOW/numerical groundwater modeling projects for a professional (consulting, applied research) context. The course introduces the practical aspects of groundwater modeling and modeling projects in an intuitive and comprehensive manner. The course focuses on hands-on experience with the planning, preparation,

execution, presentation, and review of a modeling project. We briefly review the methods, assumptions, and limitations of groundwater models – students are expected to take or have taken more rigorous numerical methods courses (most students typically take this course in conjunction with HYD 269). We will learn and use MODFLOW, MODPATH, and MT3D within the Groundwater Vistas GUI and review and understand the underlying physical concepts in the context of real world applications (site to basin scale). As a class project, students will familiarize themselves with one additional groundwater modeling software (e.g., IWFEM, PARFLOW, Analytic Element Method, IGW, FEFLOW, MikeSHE, HYDRUS). At the end of the course, participants should be able to understand and actively engage in planning, implementation, supervision, and/or review of groundwater modeling projects, particularly MODFLOW projects. The course is complementary to and well suited as an add-on to HYD 269, ECI 144, ECI 289, and ECI 272A/B/C. This course specifically focuses on the practice of actual model building.

Course Topics/Syllabus:

- overview of groundwater modeling software / Intro to MODFLOW
- data collection and preparation
- linking GIS and GW Model software
- model grid design
- boundary conditions / MODFLOW packages
- transient flow modeling
- sensitivity analysis, model calibration and verification
- capture zone analysis
- contaminant transport modeling
- geostatistical modeling

In addition to class attendance, students are expected to independently:

- prepare a short project proposal
- prepare and implement a computer modeling project (can be done jointly with HYD 269)
- give an in-class project presentation about their project (jointly with HYD 269)

[2020-21 TA Positions for the Gender, Sexuality, and Women's Studies Department \(Attached\)](#)

QUALIFICATIONS:

- Full-time registered graduate student
- 3.00 Minimum GPA or equivalent
- Must have attended, or will attend prior to beginning this position, the mandatory CEE TA orientation (offered every September).
- Must complete Sexual Harassment Prevention Training online prior to beginning position.
- Students with experience in the subject matter will be given preference

TO APPLY:

- Submit application materials to Job Posting **#3688796 in Handshake.**
- CV or Resume (no more than 2 pages).
- Cover Letter (no more than 1 page). **Please list your desired positions, organized by quarter and preference.**

- Teaching evaluations for 2-3 courses, if available.

TA Position Will Be Open Until Full