

Postdoctoral Scholar - Center for Targeted Machine Learning and Causal Inference (CTML) - School of Public Health
University of California Berkeley

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Posted Nov. 4, 2024, set to expire Nov. 15, 2024

Job Title Postdoctoral Scholar - Center for Targeted Machine Learning and Causal Inference (CTML) - School of Public Health

Department Center for Targeted Machine Learning and Causal Inference

Institution University of California Berkeley
Berkeley, California

Date Posted Nov. 4, 2024

Application Deadline 11/15/2024

Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Public Health/Management/Administration
Public Health/Biostatistics/Epidemiology

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Job Description

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Postdoctoral Scholar - Center for Targeted Machine Learning and Causal Inference (CTML) - School of Public Health

Position overview

Position title: Postdoctoral Scholar Employee

Salary range:

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The UC postdoc salary scales set the minimum pay determined by experience level at appointment. See the following table for the current salary scale for this position: https://www.ucop.edu/academic-personnel-programs/_files/2024-25/oct-2024-scales/t23.pdf. A reasonable estimate for this position is \$80,000 - \$105,000.

Percent time: 100%

Anticipated start: January 2025

Position duration: The initial appointment is for two years with the possibility of extension based on satisfactory performance and availability of funding.

Application Window

Open date: September 30, 2024

Most recent review date: Friday, Nov 1, 2024 at 11:59pm (Pacific Time)

Applications received after this date will be reviewed by the search committee if the position has not yet been filled.

Final date: Friday, Nov 15, 2024 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position description

Berkeley Public Health (BPH) aims to improve population health, especially for the most vulnerable, through interdisciplinary collaborations, preeminent education, and transformational research. Established in 1943, BPH is a professional school on the UC Berkeley campus that comprises six academic divisions and nearly 30 research centers and programs. Our School values include social justice, health as a right, challenging conventional thought, embracing diversity, and creating meaningful impact. We honor our principles of community by centering and valuing everyone in our community, prioritizing prevention while remaining grounded in social justice, promoting safety and respect, practicing self-care and kindness, and remaining optimistic, hopeful, and committed to change. Learn more at <https://publichealth.berkeley.edu>.

The Center for Targeted Machine Learning and Causal Inference (CTML) in Berkeley Public Health's Divisions of Epidemiology and Biostatistics is an interdisciplinary hub that brings together data scientists, statisticians, computer scientists, and health professionals. Its mission is to improve the

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research and practice of health sciences by developing and applying targeted learning analytics to solve urgent health problems.

CTML is seeking a highly motivated and talented Postdoctoral Scholar to join our interdisciplinary research projects focused on causal inference, epidemiology, and pharmaceutical research. The successful candidate will work on and manage innovative projects aimed at understanding the causal relationships between pharmaceutical interventions and health outcomes. This position offers a unique opportunity to coordinate several extensive biostatistical research collaborations and contribute to cutting-edge research at the intersection of public health, epidemiology, and biostatistics, with an emphasis on applying advanced causal inference methods to real-world data.

Key Responsibilities:

- **Research Design & Analysis:** Lead the design, execution, and analysis of CTML's Industry-partnered studies utilizing causal inference methods.
- **Methodological Development:** Develop and apply novel causal inference methodologies to address biases in observational studies, such as confounding, selection bias, and measurement error.
- **Data Management:** Work with large-scale healthcare databases, electronic health records (EHRs), and other real-world data sources to perform rigorous epidemiological analyses.
- **Manage Collaborations & Communication:** Strategically steer multidisciplinary teams, including epidemiologists, biostatisticians, clinicians, and data scientists, to interpret findings and drive them into actionable insights.
- **Manuscript Preparation:** Prepare manuscripts for peer-reviewed publication and present findings at scientific conferences.
- **Grant Writing:** Assist in preparing grant proposals to secure funding for future research projects.

Beyond the responsibilities of coordinating existing projects and managing the development of scientific papers, multiple professional development opportunities will be offered, including developing new working groups and projects and first-authoring academic publications.

Center: <https://ctml.berkeley.edu/>

Qualifications

Basic qualifications (required at time of application)

- Doctoral degree (or equivalent international degree), or enrolled in a Doctoral or equivalent

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international degree program at the time of application.
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Additional qualifications (required at time of start)

- Doctoral degree (or equivalent international degree). No more than three years of postdoctoral experience at the time of appointment.

Preferred qualifications

- Doctorate in Biostatistics, Statistics, Epidemiology, machine learning, or related field.
- Experience in statistical computing skills, especially in R
- Experience/working skills in data preprocessing/cleaning, statistical analysis, systems programming, database design and data security measures, especially regarding large datasets.
- Experience in data analysis consultation.
- Experience in software package development and maintenance.
- Knowledge of causal inference and machine learning methodologies, design of clinical trials, and analysis of electronic health record data.

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter - 1-2 Pages
- Statement of Research (Optional)
- Statement on Contributions to Advancing Diversity, Equity, and Inclusion - Statement on your contributions to diversity, equity, and inclusion, including information about your understanding of these topics, your record of activities to date, and your specific plans and goals for advancing equity and inclusion if hired at Berkeley. [More Information and guidelines.](#)

Reference requirements

- 3 required (contact information only)

Apply link: <https://aprecruit.berkeley.edu/JPF04532>

Help contact: michelle1@berkeley.edu

About UC Berkeley



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UC Berkeley is committed to diversity, equity, inclusion, and belonging. The excellence of the institution requires an environment in which the diverse community of faculty, students, and staff are welcome and included. Successful candidates will demonstrate knowledge and skill related to ensuring equity and inclusion in the activities of their academic position (e.g., teaching, research, and service, as applicable).

The University of California, Berkeley is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status.

Please refer to the [University of California's Affirmative Action Policy](#) and the [University of California's Anti-Discrimination Policy](#).

In searches when letters of reference are required all letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the [UC Berkeley statement of confidentiality](#) prior to submitting their letter.

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

Job location

Berkeley, California

To apply, visit <https://aprecruit.berkeley.edu/JPF04532>

Contact Information



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Please reference AcademicKeys in your cover letter when
applying for or inquiring about this job announcement.

Contact

N/A

University of California Berkeley

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