

Berkeley Call for BIDMaP Emerging Scholars

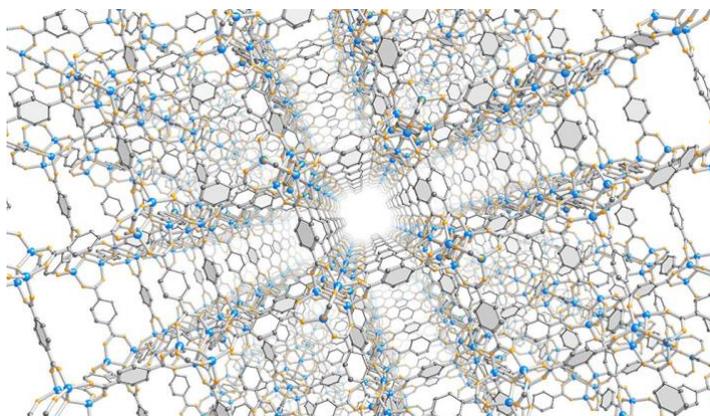
Computing,
Data Science,
and Society

Postdoctoral Fellowships in Climate Change, Machine Learning and Advanced Materials

Are you interested in working at the interface of machine learning and climate change?

The [BIDMaP](#) Emerging Scholars Program is accepting fellowship applications from recent PhDs in basic science or data science fields interested in working at the interface of machine learning, chemistry (or other natural sciences), and climate change.

The Bakar Institute of Digital Materials for the Planet (BIDMaP) is a [new institute](#) at UC Berkeley, bringing together machine learning and data science with the natural sciences to address one of society's most urgent challenges: climate change. BIDMaP is focused on developing new techniques in machine learning that will enhance and accelerate discovery in experimental natural sciences and development of novel materials to address climate change. BIDMaP promotes collaboration between world-renowned AI/ML experts and chemists, as well as other physical scientists, to exploit the vast potential held in metal organic frameworks (MOFs) and similar materials for clean air, clean energy, and clean water.



Candidates who are interested in exploring this cross-disciplinary area are encouraged to apply, even if they do not have prior experience working across the target disciplines, natural sciences and computing/statistics/AI/ML.

Eligibility

Candidates should have one of the following academic training and research profiles:

1. Computing/statistics/AI/ML training, and eagerness to work with experimentalists to enable new discoveries; or
2. Basic science training (experimentally or computationally trained in chemistry, physics, biological sciences, or materials science), and eagerness to work with machine learning researchers to accelerate laboratory discovery with new computational techniques.

Fellows will be mentored by UC Berkeley faculty in computing/statistics/AI/ML and will collaborate with basic scientists; OR will be mentored by UC Berkeley faculty in a basic science field and collaborate with faculty in computing/statistics/AI. BIDMaP will welcome its first cohort of Emerging Scholars in 2023. For this inaugural year, fellows will be matched with a primary mentor from among the following BIDMaP Faculty:

Computational Mentors

[Christian Borgs](#)
[Jennifer Chayes](#)
[Joey Gonzalez](#)
[Aditi Krishnapriyan](#)
[Jennifer Listgarten](#)
[Fernando Perez](#)
[Katherine Yelick](#)

Basic Science Mentors

[Felix Fischer](#)
[Alessandra Lanzara](#)
[Kristin Persson](#)
[Omar Yaghi](#)
[Peidong Yang](#)

The BIDMaP Emerging Scholars Fellowship is designed to attract exceptional early-career scientists, with a doctoral degree awarded between June, 2020 and July, 2023.

Diversity, equity, inclusion, and belonging are core values at UC Berkeley. Our excellence can only be fully realized by faculty, students, and academic and non-academic staff who share our commitment to these values. Successful candidates for our academic positions will demonstrate evidence of a commitment to advancing equity, inclusion, and belonging.

Timeline

Candidates should apply by **January 27, 2023** for full consideration for a fellowship in the coming cycle. Appointments will begin in spring, summer, or fall 2023, depending on accepted fellows' preferred start dates.

Appointment Terms

BIDMaP Fellows will be appointed for two years, with the possibility of renewal for a third year, and will receive an annual stipend of \$75,000. Appointments will follow current policies for postdoctoral scholars at UC Berkeley.

Application

Candidates:

To apply, please send the following materials to bidmap@berkeley.edu by **January 27, 2023**, with the subject line "Fellowship candidate [last name]"

- Statement of research (typically ~2-5 pages), outlining prior research and future goals. Optional: Address particular interest in BIDMaP's scientific and societal goals and mention names of preferred mentors from the BIDMaP Faculty.
- Curriculum vitae
- Statement on 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. For additional information, see [Contributions to Diversity, Equity, Inclusion, and Belonging](#).

Three letters of recommendation are required for an application to be complete. Candidates are responsible for asking references to submit letters directly, as detailed below.

References:

- Please provide a letter of recommendation, addressing the candidate's qualifications and potential to advance BIDMaP's scientific objectives. Letters should be submitted directly from each recommender to bidmap@berkeley.edu, with subject line "Fellowship candidate [last name]". Letters of recommendation should be submitted on institutional

letterhead and include the following information: candidate's title and institution, and recommender's title and institution.

Letters are requested by **January 27, 2023**.

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. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>.

Further Information

[Division of Computing, Data Science, and Society \(CDSS\)](#)

[Bakar Institute of Digital Materials for the Planet \(BIDMaP\)](#)

[Berkeley Visiting Scholar and Postdoc Affairs \(VSPA\)](#)

[Postdoctoral scholars | UCOP](#)

Email bidmap@berkeley.edu with questions.