

PhD in Machine Learning for Materials at UCLA
University of California, Los Angeles

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Posted Dec. 9, 2019, set to expire Apr. 9, 2020

Job Title	PhD in Machine Learning for Materials at UCLA
Department	Civil & Environmental Engineering http://www.lab-paris.com
Institution	University of California, Los Angeles Los Angeles, California
Date Posted	Dec. 9, 2019
Application Deadline	Open until filled
Position Start Date	Flexible start date
Job Categories	Graduate Student
Academic Field(s)	Statistics & Actuarial Science Physics - Condensed Matter/Low Temperature Physics - General Mathematics/Applied Mathematics Materials Sciences/Polymer Sciences Computer/Information Sciences Chemistry - Physical Chemistry - Inorganic Chemistry - General Sciences - General
Job Website	http://www.lab-paris.com/?p=957
Apply By Email	bauchy@ucla.edu

Job Description

The Physics of Amorphous and Inorganic Solids Laboratory (PARISlab) at University of California, Los Angeles (UCLA) is seeking some outstanding candidates for several open Ph.D. positions. Special

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emphasis is placed on recruiting talented, self-motivated candidates with a solid background in materials science and engineering, mechanical engineering, civil engineering, and/or computer science.

Open positions:

The successful candidate(s) will work on applying artificial intelligence and machine learning techniques to facilitate the design of novel materials with tailored properties. The successful candidate(s) will develop data-driven models (regression, classification, optimization, etc.) for: (i) prediction materials properties, (ii) discovery of novel materials with unusual properties, (iii) image analysis and microstructure optimization, and/or (iv) identification of relevant structural fingerprints governing materials' properties and functionalities. Data-driven models will inform and be informed by physics-based atomistic simulations (e.g., molecular dynamics).

The candidate will work in the group of Prof. Bauchy at UCLA, in strong collaboration with other computational students/postdocs in PARISlab and experimental students/postdocs/faculty in the Laboratory for the Chemistry of Construction Materials (LC2). We are specialized in the modeling of disordered materials of engineering interest, but active collaboration with other research groups (Penn State University, Aalborg University, Arizona State University) focusing on the experimental aspects of these projects is encouraged and expected. More information can be found at: <http://www.lab-paris.com>.

Required qualifications:

For consideration, applicants should possess the following qualifications or attributes:

- A B.S. and/or M.S. degree from a reputable university in a related thematic,
- An interest in pursuing a research career,
- A fundamental understanding of materials science and engineering,
- A strong interest in programming and computational approaches is mandatory,
- Previous experience in machine learning and/or data analytics is a plus,
- Ability to work in an interdisciplinary team,
- An interest in working in a fast-paced research environment.

Applicants with relevant experience will be given special preference. The successful candidates will be expected to take personal initiative to structure tasks to meet project goals, network and communicate with other partners involved in the project, mentor undergraduate students, author high-impact publications, and report results at international conferences. The positions are funded for a period of 3-to-5 years.

How to apply:

If you meet the above requirements and are interested in this position, please provide by email

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(bauchy@ucla.edu) a detailed resume, a short personal statement explaining your scientific and research interests, and contact information for three referees in support of your application (as PDF files). Recruitment will remain open until the positions are filled.

Contact:

Prof. Mathieu Bauchy — bauchy@ucla.edu

Physics of Amorphous and Inorganic Solids Laboratory (PARISlab)

Department of Civil and Environmental Engineering

University of California, Los Angeles

420 Westwood Plaza, 5731E Boelter Hall, Los Angeles, CA 90095, USA

<http://www.lab-paris.com>

Contact Information

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

Contact Prof. Bauchy
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University of California, Los Angeles
University of California, Los Angeles
420 Westwood Plaza, 5731 Boelter Hall
Los Angeles, CA 90095

Contact E-mail bauchy@ucla.edu