Postdoctoral Researcher position in Quantitative Virology available in the Bouhaddou Lab at the University of California Los Angeles (UCLA) to study protein signaling dynamics in response to viral infection using a combination of mass spectrometry proteomics, experimental virology, and computational modeling.

About the lab. The Bouhaddou lab (https://www.mimg.ucla.edu/people/mehdi-bouhaddou-ph-d/) is a Quantitative Systems Biology lab opening in February 2023 as part of the Department of Microbiology, Immunology, and Molecular Genetics (MIMG) (https://www.mimg.ucla.edu/) and Quantitative and Computational Biosciences Institute (QCBio) (https://qcb.ucla.edu/) at the University of California Los Angeles (UCLA). The lab is generally focused on combining mass spectrometry phosphoproteomics, virology and molecular biology, and computational modeling to systematically compare how different viruses manipulate, and are manipulated by, mammalian phosphorylation signaling cascades. We are motivated to integrate computational (network modeling, ODE modeling, and bioinformatics) and experimental (virology, proteomics, CRISPR screens, pharmacology, and molecular biology) approaches to study systems-level features of virus-host interactions, interested in projects that seek to:

(1) Map host phosphorylation signaling cascades manipulated by different viruses.
(2) Identify mechanisms by which viruses manipulate human kinase signaling cascades.
(3) Understand impact of viral protein phosphorylation by host kinases.
(4) Identify host kinase dependencies across different viruses to identify multi-virus therapeutic targets.

The Bouhaddou lab will possess a committed mass spectrometry instrument as well as adjoining wet and dry lab space, available to trainees for research activities. The lab is also open to projects related to phosphorylation signaling dynamics in other biological areas, including cancer and the environment. For a list of prior publications, see Google Scholar profile: https://scholar.google.com/citations?user=2_U6F9EAAAAJ&hl=en

Applicant information. We are seeking a Postdoctoral Researcher with a PhD or MD degree in a subfield of biology, computer science, engineering, or similar. The candidate should possess prior experience in at least one of the following: (1) virology, (2) mass spectrometry proteomics, (3) bioinformatics or computational modeling, or (4) molecular biology and cell culture. Dual experimental and computational experience is preferred but not required. We encourage postdoctoral scholars to follow their passions and articulate a clear training plan, which clarifies how the trainee will combine their prior experiences with a new skill set they will learn in the lab. Applicants with underrepresented identifies in the sciences are encouraged to apply.

How to apply. Interested individuals should send a (1) curriculum vitae (CV) and (2) cover letter highlighting prior experience, representative publications, and their desired future research focus to bouhaddoulab@gmail.com.