Postdoctoral Fellowship at CAIM

The Carl R. Woese Institute for Genomic Biology at the University of Illinois at Urbana-Champaign offers a fellowship for a truly exceptional young scholar who has completed their PhD or other relevant terminal degree within the last two years, and who is looking for a stimulating and supportive interdisciplinary environment to carry out both independent and collaborative research. An IGB CAIM Fellow will conduct research alongside members of the center. A personalized mentoring plan will be developed for each Fellow. The annual salary is $58,000, in addition to a $7,500 research allowance. The fellowship is for two years with an additional third year based on performance.

The Center for Artificial Intelligence and Modeling at IGB is a multi-disciplinary collaborative research group with a focus on designing new machine learning approaches for multiomics data and developing predictive computational models for evolutionary biology, microbial ecology, and other biological systems. Recent success of machine learning techniques in many complex and previously unsolved biological problems has galvanized the field of biology. The performance of machine learning methods can be further improved by including domain-specific information on biological processes driving their dynamics. This is the realm of mechanistic computational models.

The Fellow will work collaboratively with multiple faculty members fostering cross disciplinary collaborations between three groups of scientists:
•   Biologists collecting massive amounts of data relevant to the study of emerging biological problems prioritized by CAIM.
•   Computational modelers constructing predictive mechanistic models of biological systems.
•   Scientists applying state-of-the-art machine learning algorithms to inference and knowledge extraction from biological data.

The Fellow is expected to assume a leadership role in organizing group events and in mentoring graduate and undergraduate students advised by members of the Center.

Preference will be given to candidates with a strong background in analytical sciences and strong programming skills. Some knowledge of genomics or bioinformatics is desired but not required. A track record of high-impact journal publications and excellent communication skills is expected.

Applicants should submit a CV, a research statement, and the names and contact information of three referees who can write letters on their behalf. This information should be sent to CAIM Leaders, Professors Sergei Maslov (maslov@illinois.edu) and Olgica Milenkovic (milenkov@illinois.edu). Applications will be reviewed on a rolling basis until the position is filled. The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Visit www.igb.illinois.edu for additional information.

CAIM Leaders:
Sergei Maslov, Bioengineering and Physics
Olgica Milenkovic, Electrical & Computer Engineering