POSTDOCTORAL POSITIONS

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Start date: October 20, 2018
End date: August 30, 2019
Account: 5-28301
Primary and secondary approver: Ishanu Chattopadhyay (ishanu@uchicago.edu)
Will the employee have face to face patient or research subject contact? No
Drug/TB test required? No

The Laboratory for Zero Knowledge Discovery (http://zed.uchicago.edu) at the University of Chicago, Department of Medicine is announcing two open postdoctoral positions in machine learning and data-science. The candidate will have the opportunity to investigate problems in diverse fields, and develop cross-domain task-agnostic next generation learning algorithms that address hard open-ended data-intensive problems in biology and biomedicine. Of particular interest is the etiological understanding of complex disease at the molecular and population levels, translating inferred analytics to clinical decision-making, developing next generation architectures for modeling and prediction of complex spatio-temporal phenomena, with emphasis on developing algorithmic tools for predictive biosurveillance, and the preemption of zoonotic emergence.

Minimum qualifications for this position are a PhD or expected PhD in computer science, informatics, engineering, applied mathematics, statistics, computational biology, or a related field. The candidate must have a strong background in the theory and practice of machine learning principles, statistical analysis, stochastic processes, and some experience working with large datasets/databases. Proficiency in scripting languages (for example python, and use of machine learning libraries available in python) is required. Familiarity with C++ and use of associated standard template libraries is a plus. Women and members of underrepresented groups are encouraged to apply.

Interested applicants should forward documents to Ishanu Chattopadhyay, ishanu@uchicago.edu, which include: 1) cover letter, describing interest in and qualifications for pursuing interdisciplinary research; 2) curriculum vitae (including publications list); 3) contact information for two scholars who are willing to write letters of reference; 4) (optional) one or more examples of software written.

Positions can begin immediately. Compensation includes a competitive salary and benefits plan and assistance with relocation to Chicago.