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## Postdoctoral Position in Computational Biology

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The Integrative Network Biology laboratory (<http://www.healthcare.uiowa.edu/Labs/Tan>) at the University of Iowa is seeking an enthusiastic candidate who is interested in developing computational methods to problems in network biology. Possible topics to work on include: i) identification of tissue-specific transcriptional enhancers; ii) modeling of the combinatorial effects of transcription factor binding, nucleosome occupancy, and chromatin modifications on gene expression; iii) network-based approach to identifying new disease genes and disease-related sub-networks.

The long-term objective of our research is to understand how the different processes controlling gene expression are coordinated in the cell which will deepen our knowledge of organismal development and disease processes. In parallel to our computational effort, we are also conducting state-of-the-art genomic assays to generate data from diverse biological and clinical samples for our modeling effort, including next-generation sequencing and transcriptome profiling. The prospective postdoctoral fellow will have ample opportunities to collaborate with internationally recognized biomedical scientists at the University of Iowa Carver College of Medicine in the investigation of human diseases, such as hypertension and cancer.

The applicants should have a Ph.D. degree in computational biology or a related discipline (computer science, statistics, biology, physics, and mathematics). Strong computer programming (perl/python, C/C++, Java, Matlab, R) and analytical skills are essential. An established track record (as evidenced by publications in peer-viewed journals) in biological sequence and network analyses is a significant plus.

The University of Iowa is situated in Iowa City, Iowa, a medium-sized mid-western city of approximately 75,000 people. Iowa City is culturally very rich, maintaining outstanding communities in the arts, sciences, and literature. USA Today listed Iowa City as the third best-educated city in the nation and Forbes Magazine ranked Iowa City among the top 10 small metropolitan areas for business. Iowa City is a safe and inexpensive place in which to live with a quick and easy commute to the University from anywhere within the city.

**Please email your application, including curriculum vitae, cover-letter, and names and email addresses of three references to:**

**Kai Tan, Ph.D.**  
[kai-tan@uiowa.edu](mailto:kai-tan@uiowa.edu)

<http://www.healthcare.uiowa.edu/Labs/Tan/index.htm>

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The University of Iowa is an equal opportunity employer and offers competitive salaries and benefits.  
Women and minorities are encouraged to apply.