Postdoctoral positions in Computational Biology and Evolutionary Systems Biology at the University of Washington

Postdoctoral positions are available with Elhanan Borenstein’s group in the Department of Genome Sciences at the University of Washington. Borenstein’s group focuses on computational research in Evolutionary Systems Biology – an emerging field that examines the interplay between the evolutionary process and the organization of complex biological systems, with an eye to expanding fundamental theories in evolutionary dynamics, systems biology, and ecology.

Specific research themes include:

- Large scale computational analysis of biological networks and their evolution (with an emphasis on metabolic networks)
- Metabolic interactions, community structure and systems biology of microbial communities (and specifically the human microbiome) and analysis of metagenomic data
- Modularity, robustness, evolvability, and assembly rules of biological systems
- Population genetics and evolutionary theory

Research in the group is multidisciplinary in nature and spans several levels of abstraction, ranging from state of the art computational analysis of complex networks and high-throughput data to theoretical studies of mathematical and computational models.

The University of Washington is consistently ranked as one of the top research universities in the country and is the largest university in the northwestern United States. The Department of Genome Sciences (http://www.gs.washington.edu/) addresses leading edge questions in biology and medicine by developing and applying genetic, genomic and computational approaches. The department faculty includes nine NAS members, five HHMI Investigators, and a 2001 Nobel laureate in Medicine. The department moved into the new, state of the art Foege Building in 2006.

Seattle area is home to many major academic institutes and hi-tech companies, forming a vibrant and exciting research community. Considered one of the nation’s most beautiful and livable cities, Seattle boasts an array of cultural activities, parks, and restaurants, and serves as the gateway to National Parks and Forests, as well as boating, skiing and hiking areas.

The successful candidate is enthusiastic, creative, highly motivated, with a track record of research excellence in computational biology. Strong analytical, quantitative and computational/programming skills are essential as well as the ability to conduct independent cutting-edge research. Experience with complex biological networks, large-scale biological data, bioinformatics, and modeling is highly desirable. PhD in life sciences, computer science, mathematics, or bioinformatics is required. Candidates with a multidisciplinary background, spanning both life sciences and computer sciences are especially encouraged to apply.

Interested applicants should submit a CV, a brief (2-3 paragraphs) statement of her/his research interests and experience, and contact information of three references to Dr. Elhanan Borenstein (elbo@gs.washington.edu).