Biomedical and Health Informatics Lecture Series
Thursday, April 14, 2011
1:30 - 2:20 p.m., Room E-216

William Noble, Ph.D.
Associate Professor
Department of Genome Sciences and Department of Computer Science
University of Washington

"Methods and Tools for Exploring Functional Genomics Data"

In this talk, Dr. Noble will describe several methods that his lab has developed recently for making sense of large-scale functional genomics data. These include tools for motif-based sequence analysis, detection of distant protein homologies, and for the prediction of DNA binding locations from protein binding microarray or chromatin immunoprecipitation data sets.

William Stafford Noble (formerly William Noble Grundy) was raised in Naperville, IL, and graduated from Stanford University in 1991 with a degree in Symbolic Systems. Between undergraduate and graduate school, he worked in the speech group at SRI International in Menlo Park, CA, and at Entropic Research Laboratory in Palo Alto, CA. He also spent two years teaching high school math, physics and English literature with the US Peace Corps in Lesotho, Africa. In 1994, he entered graduate school at the University of California, San Diego, where he studied with Charles Elkan. He received the Ph.D. in computer science and cognitive science in 1998. He then spent one year as a Sloan/DOE Postdoctoral Fellow with David Haussler at the University of California, Santa Cruz. From 1999 until 2002, Noble was an Assistant Professor in the Department of Computer Science at Columbia University, with a joint appointment at the Columbia Genome Center. In 2002, he joined the faculty of the Department of Genome Sciences at the University of Washington, where he has adjunct appointments in the Department of Computer Science and Engineering and in the Department of Medicine. His research group develops and applies statistical and machine learning techniques for modeling and understanding biological processes at the molecular level. Noble is the recipient of an NSF CAREER award and is a Sloan Research Fellow.

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