

# Network modeling: Methods and applications in biology, medicine and sociology

## WORKSHOP

Oslo 7-8 May, 2012



Venue: The Norwegian Academy of Science and Letters

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Networks are everywhere, on the Internet, in social settings, in infectious disease, in biological systems. During the last few years the theory of networks has emerged as a discipline in its own right with a well developed theory and with very broad applications in many areas. The aim of this workshop is to present and discuss recent advances in this new and exciting discipline.

*-If you are interested in learning more about networks and their applications in biology, medicine and sociology, this workshop is an excellent opportunity to become more familiar with the topic and socialize with other interested researchers in Norway!*

*-If you are working with network modeling, this is an outstanding opportunity to meet top network modeling researchers and become acquainted with frontline research in this field!*

Networks and graphs describe links between units or individuals and is a natural way to describe the organization and structure of systems in many disciplines, including social sciences, biology, genomics, communications, when the relationship between the different entities is of primary interest.

Modern technologies allow collecting precious data on the nodes and links of networks. Analysis and simulation of networks have become a major endeavor across several scientific disciplines, and statistics plays a central role.

In this workshop, focus will be on statistical methodology and inference, and applications of network modeling in biology, sociology and in relation to transmission of infectious diseases. The workshop features longer presentations and with ample time to interaction and discussion.

**Confirmed speakers:** Albert-Laszlo Barabasi(University of Notre Dame), Tom Britton (Stockholm University), Geoffrey Canright (Telenor), Birgitte Freiesleben de Blasio(University of Oslo), Christofer Edling (Jacobs University, Bremen), Krista Gile (University of Massachusetts), Petter Holme (Umeå University), David Hunter(Penn State University), Fredrik Liljeros (Stockholm University), Kim Sneppen (The Niels Bohr Institute), Tatyana Turova (Lund University), Brian Yandell(University of Wisconsin-Madison).

**Organizers:** Birgitte Freiesleben de Blasio, Odd Aalen, Arnaldo Frigessi, Department of biostatistics, Institute of Basic Medical Sciences, University of Oslo

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**Registration:** Send an email to [morten.valberg@medisin.uio.no](mailto:morten.valberg@medisin.uio.no). The registration fee is 950 NOK, and covers lunch, beverages and refreshments during the two-day workshop. Payment is due 15th of April. Students without project funding can participate free of charge.