



# Ki-Net–CNA Workshop: Groups and interactions in data, networks and biology

**Carnegie Mellon University**  
**Department of Mathematical Sciences**  
**May 27–29, 2015**

## Confirmed Participants

<b>Mikhail Belkin</b>	Ohio State University
<b>Andrea Bertozzi</b>	University of California, Los Angeles
<b>Alfred Bruckstein</b>	Technion
<b>Jian-Guo Liu</b>	Duke University
<b>Mauro Maggioni</b>	Duke University
<b>Georgi Medvedev</b>	Drexel University
<b>Cristopher Moore</b>	Santa Fe Institute
<b>Mason Porter</b>	University of Oxford
<b>Amit Singer</b>	Princeton University
<b>Florian Theil</b>	University of Warwick
<b>James von Brecht</b>	California State University, Long Beach

## Organizers:

**Robert Pego**, Carnegie Mellon University, rpego@cmu.edu  
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Individuals and agents in many systems spontaneously organize to form structures such as flocks, swarms, and clusters. Investigating the principles that govern the formation and behavior of large groups in natural systems requires understanding the structure of clusters, their connectivity, how their identities develop, and how information propagates. Similar goals are also important in statistics and machine learning for understanding massive clouds of high-dimensional data, where one relies on properties of graphs encoding data similarity. Likewise connectivity and structure play an important role in studies of network dynamics.

A limited amount of travel and local lodging is available for researchers in the early stages of their career who want to attend the full program, especially for graduate students and post-doctoral fellows.

**Deadline for applications for support is March 31.**

**[www.ki-net.umd.edu](http://www.ki-net.umd.edu)**



**Carnegie  
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**CNA** Center for Nonlinear Analysis  
**KI-Net:** Kinetic description of emerging challenges  
in multiscale problems of natural sciences