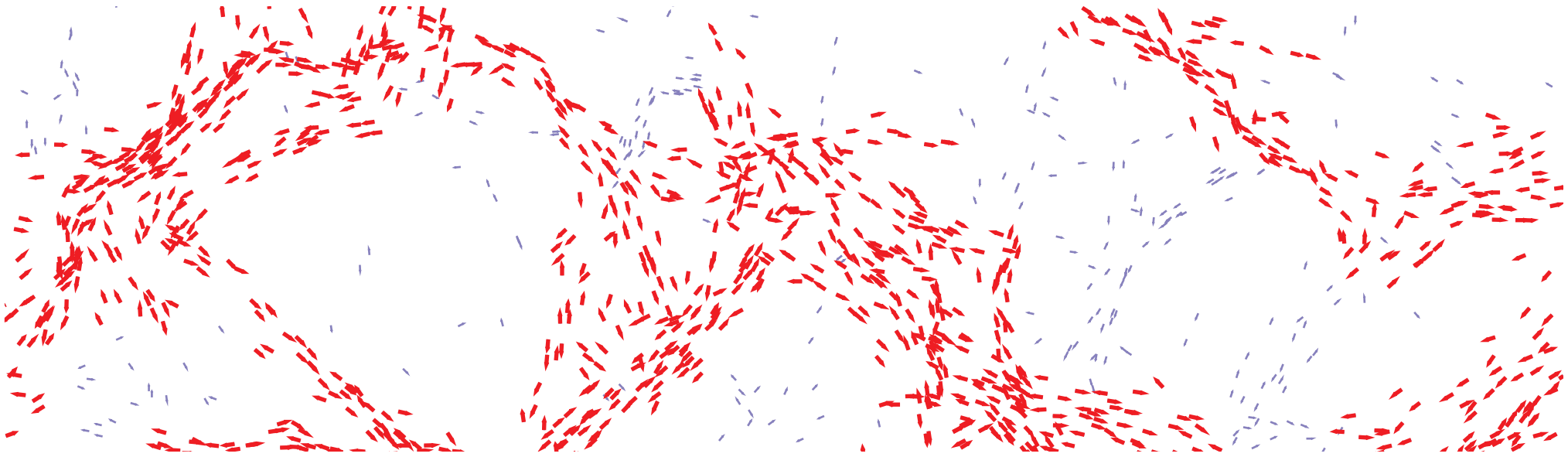
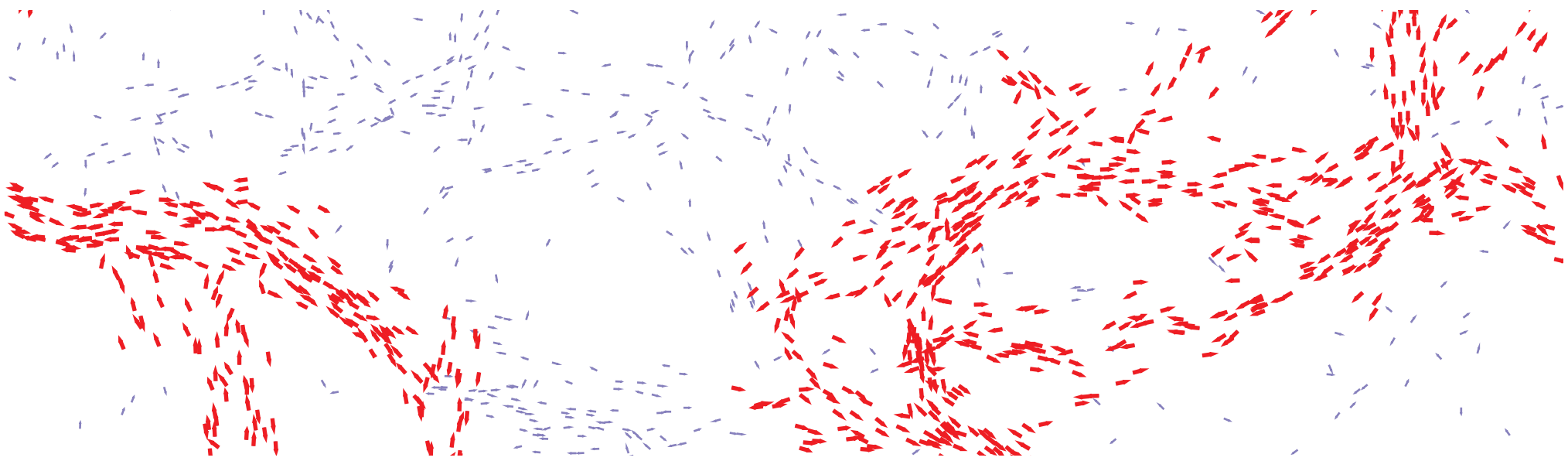


CNA/Ki-Net Workshop:

Dynamics and Geometry from High Dimensional Data

March 14–16, 2017 **Carnegie Mellon University, Department of Mathematical Sciences**



Speakers

Antonin Chambolle, École Polytechnique, Paris
Frédéric Chazal, INRIA Saclay
Jerome Darbon, Brown University
Massimo Fornasier, Technical University of Munich
Yannis Kevrekidis, Princeton University
Nathan Kutz, University Washington
Gilad Lerman, University of Minnesota
Jianfeng Lu, Duke University
Facundo Memoli, Ohio State University
Sebastien Motsch, Arizona State University
Christof Schütte, Freie Universität Berlin
Andrew Stuart, Caltech
Eric Vanden-Eijnden, Courant Institute, NYU
Rachel Ward, University of Texas, Austin
Larry Wasserman, Carnegie Mellon University

This workshop focuses on extracting structure from high-dimensional datasets. In particular, it will address how to reliably uncover the laws that govern the dynamics being investigated and how to discover and describe the geometry present in sets of data. The workshop will bring together researchers from a variety of fields, including statistical machine learning, applied analysis, dynamical systems, probability and stochastic processes, and computational mathematics for exchange of ideas.

A limited amount of funds is available to support researchers in the early stages of their career who want to attend the program, especially for graduate students and post-doctoral fellows.
Deadline for applications for support is January 31.

Image: Trail formation based on directed pheromone deposition, courtesy Emmanuel Boissard, Pierre Degond and Sebastien Motsch

Organizers:
Nicolás García-Trillos, Brown University
Mauro Maggioni, Johns Hopkins University
Hayden Schaeffer, Carnegie Mellon University
Dejan Slepčev, Carnegie Mellon University
Matthew Thorpe, Carnegie Mellon University

Registration: **www.ki-net.umd.edu/content/conf?event_id=693**
Workshop info: **www.math.cmu.edu/CNA/CNA-KiNet2017**

CNA Center for Nonlinear Analysis
KI-Net: Kinetic description of emerging challenges in multiscale problems of natural sciences
NSF
University of Maryland 1856
Carnegie Mellon University
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Funding provided by the NSF through the KI-net Grant and the Center for Nonlinear Analysis, CMU.