

# COMPLEXITY OF DIVERSITY

## A Santa Fe Institute Applied Complexity Short Course

March 22<sup>nd</sup> - 23<sup>rd</sup>, 2018 | San Francisco Bay Area

Why is diversity so important and what role does diversity play in discovery, problem solving, adaptability, and robustness? This accessible two-day executive education course provides an intensive introduction to the functions of diversity in complex systems. Through lectures, exercises, and interactive discussions with prominent SFI faculty and your fellow participants, you will explore the relationship between diversity and resilience, adaptability, and the nature of collective decision-making. There will be particular emphasis on applications that are relevant for managers, executives, and board members. Specific focal areas include questions of social power, leadership, decision-making, and long-term resilience. The course content will be entirely scientific and rely on replicated empirical findings, rigorous models, basic mechanisms, and performance-oriented data analysis. Despite the scientific nature of the course's content, this course does not require prior knowledge of math, computer science, or complexity science. Tools will be explained as the material requires. Speakers include:

**Jennifer Dunne**  
Santa Fe Institute

**Jessica Flack**  
Santa Fe Institute

**Mirta Galesic**  
Santa Fe Institute

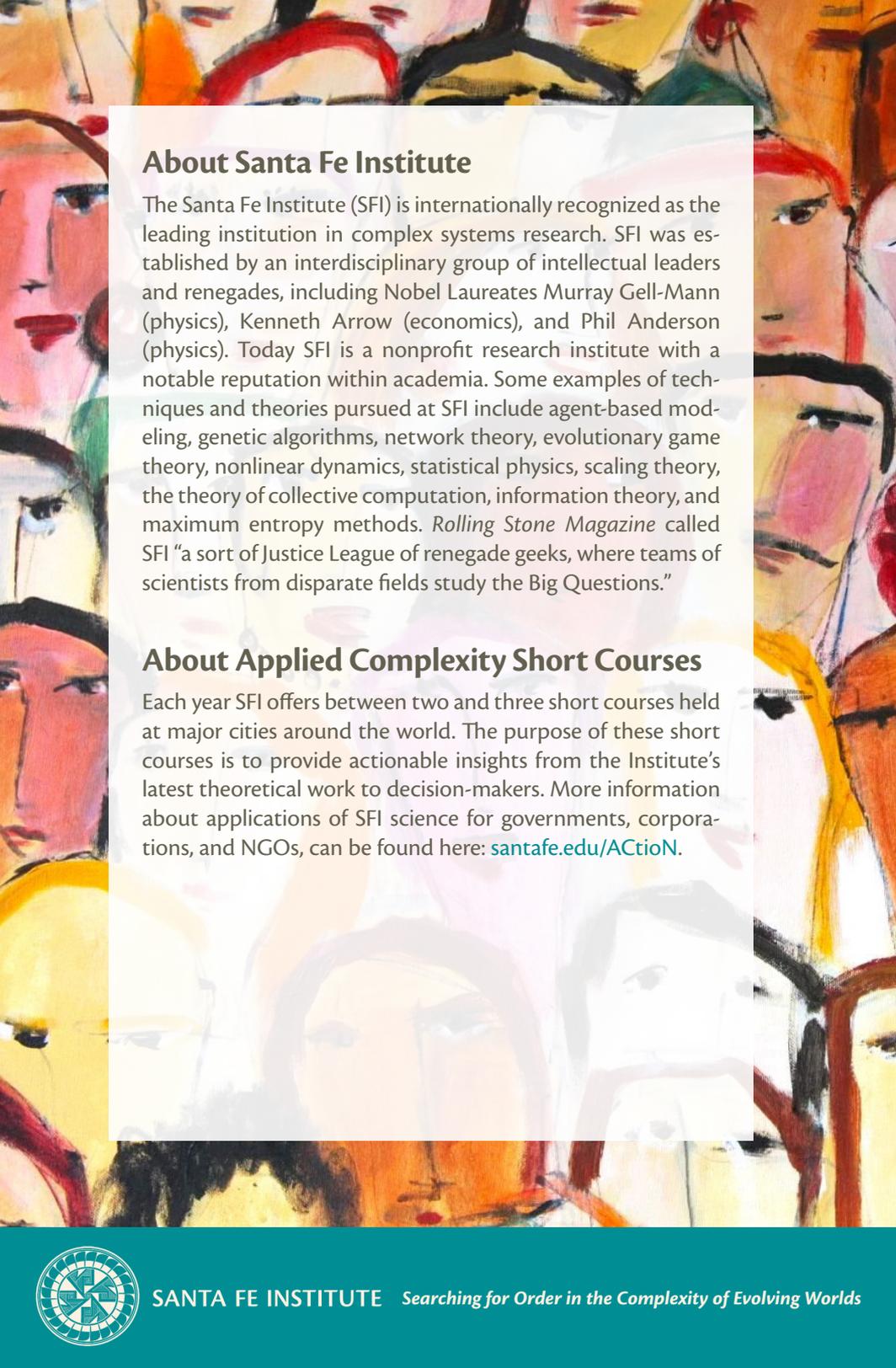
**David Krakauer**  
Santa Fe Institute

**Scott Page**  
University of Michigan & SFI

**Geoffrey West**  
Santa Fe Institute

Go to [santafe.edu/diversity](http://santafe.edu/diversity) to register.



An abstract painting featuring a collage of human faces in various colors (red, orange, yellow, green, black) and styles, some with thick outlines and others more subtle. The faces are arranged in a dense, overlapping composition.

## About Santa Fe Institute

The Santa Fe Institute (SFI) is internationally recognized as the leading institution in complex systems research. SFI was established by an interdisciplinary group of intellectual leaders and renegades, including Nobel Laureates Murray Gell-Mann (physics), Kenneth Arrow (economics), and Phil Anderson (physics). Today SFI is a nonprofit research institute with a notable reputation within academia. Some examples of techniques and theories pursued at SFI include agent-based modeling, genetic algorithms, network theory, evolutionary game theory, nonlinear dynamics, statistical physics, scaling theory, the theory of collective computation, information theory, and maximum entropy methods. *Rolling Stone Magazine* called SFI “a sort of Justice League of renegade geeks, where teams of scientists from disparate fields study the Big Questions.”

## About Applied Complexity Short Courses

Each year SFI offers between two and three short courses held at major cities around the world. The purpose of these short courses is to provide actionable insights from the Institute’s latest theoretical work to decision-makers. More information about applications of SFI science for governments, corporations, and NGOs, can be found here: [santafe.edu/ACtioN](http://santafe.edu/ACtioN).

