

This is to certify that

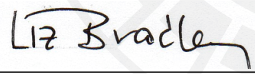
SHAKA CHEN

has successfully completed the Santa Fe Institute's Massive Open Online Course

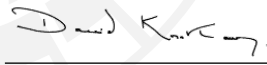
Nonlinear Dynamics: Mathematical and
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nonlinear.complexityexplorer.org

April 22, 2023



Liz Bradley, Lead Instructor



David Krakauer, Santa Fe Institute President